Automation of Industrial Internship Program

by

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Dissertation submitted in partial fulfillment of the requirements for the Bachelor of Engineering (Hons) (Information Communication Technology Bachelor of Engineering)

JULY 2007

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CERTIFICATION OF ORIGINALITY

This is to certify that I am responsible for the work submitted in this project, that the original work is my own except as specified in the references and acknowledgements, and that the original work contained herein have not been undertaken or done by unspecified sources or persons.

Min

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CERTIFICATION OF APPROVAL

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A project dissertation submitted to the Information Communication Technology Programme Universiti Teknologi PETRONAS in partial fulfilment of the requirement for the BACHELOR OF TECHNOLOGY (Hons) (INFORMATION COMMUNICATION TECHNOLOGY)

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.

CHAPTER 1 INTRODUCTION

1.1. BACKGROUND

Student Industrial Internship Program(SIIP) has been introduced by Universiti Tecknologi Petronas(UTP) in order to expose students to working culture and also mingling theoretical studies in UTP with working experiences. Besides, objective of SIIP is to produce wellrounded graduates who possess technical competence, lifetime learning capacity, critical thinking, communication and behavioral skills, business acumen, practical attitude and solution synthesis ability. There are five parties involved directly in the SIIP who are: Student Industrial Internship Unit(SIIU), UTP lecturers, host companies, plant supervisors (PS) and students.

1.2. PROBLME STATEMENT

This whole system of Industrial Internship which is manual at the moment brings myriad of workload for stated group of people. These problems can be categorized according to the occasions they happen:

1.2.1. Before Industrial Internship

In this time students must submit their resume and application letter to SIIU, choose companies they intend to apply for, and trace their request status. Since resumes and application letters don't have specific format, and number of students undergoing this program every semester is huge, distinction among students according to their liabilities is impossible. Furthermore it happens occasionally that students with outstanding academic results lose application opportunities due to lack of communications with SIIU. Finally checking status of application is time consuming process due to unavailability of a centralized system.

1.2.2. During Industrial Internship

During this period students must fill up weekly report and brief report to be signed by their supervisor. In addition they have to submit related forms to UTP which later are to be used for scheduling student final presentation. Firstly, due to current manual system, students tend not to fill up their reports on weekly basis but rather postpone it toward the end of training period. Secondly, forms which have to be sent to SIIU occasionally get lost which will cost lose of student contact number and further difficulties on scheduling of student's final presentation.

1.2.3. After Industrial Internship

Students and plant supervisors have to submit reports and evaluation forms to UTP supervisor. Supervisors in turn have to mark and submit them to SIIU. It is common that forms which are to be submitted to UTP supervisor through PS, get lost in post or arrive late to UTP. This will further defer marking process.

1.3. OBJECTIVES

The purpose of this research is automating Student Industrial Internship Program business flow by developing distributed website. The end product is to be deployed over Internet and accessible to all five parties mentioned above. As such, this project is expected to cover following objectives:

1. To study Student Industrial Internship Program business process.

As mentioned above main purpose of this project is automation so it is of importance to have wide view about SIIP business flow. As the word automation implies, business process will not be affected by launching this project, but rather this project is a mean to computerize existing system. Thus the management would not withdraw its support from the project as it makes SIIP more efficient, without touching business flow.

2. To conduct research on defacto automation techniques.

By conducting research on developed systems, systems is fortified in term of

performance, reliability and security. Unfortunately past systems developed, failed to consider this aspect of system development and so security pitfalls were not covered on over 60 percent of web pages.

3. To conduct research on distributed systems.

It is of vitality to make system distributed in near future for the sake of huge number of users interacting with it. Goal of system is an online website, available for students in industrial internship scattered all around the globe, students in UTP who intend to go for industrial internship by coming semester, lecturers, SIIU staff and plant supervisors. Thus single centralized system will be a bottleneck and further distribution is inevitable.

4. To develop intended automated system for SIIU.

Finally by conducting mentioned studies, initial centralized system is to be developed by end of Jun 2007 and distributed system is to be developed and lunched by end of year 2007.

1.4. SCOPE OF STUDY

In order to find out business flow of SIIP and expectation from website, continuous interview sessions with Mr.Affendi, senior executive of SIIU, is conducted every 4 weeks. During these sessions Mr.Affendi express his point of view about developed system and give orientation for further improvements.

Structure of system is similar to Drupal Content Management System which is one of the biggest open source LAMP content management systems deployed over net. This structure is highly centralized while it is maintainable, flexible, expendable and compatible with future distributions.

System distribution which is secondary goal of the system will focus on duplication of web portal and transparent user migration while providing consistence backend database.

CHAPTER 2 LITERATURE REVIEW AND THEORY

Under supervision of Mrs Aliza Binti Sarlan, two systems developed to automate SIIP. Both systems, which have been developed by Judy Nadia Jolonius and Norfadilah Binti Samsudin were compatible to LAMP (Linux, Apache, MySQL and PHP) technology. While first system succeeded to meet all its requirements, it failed to provide all functionalities required by five mentioned parties. On the other hand second project though added some extra functionalities to first version it was not integrable with first system.

Though system analyzing and design phrases carefully taken care of in these two systems, unfortunately there were inherent shortcomings in implementation phrase. These shortcomings raised from the fact that programming methodology used to develop system, not only didn't comply to object oriented programming rules, but also it didn't comply to structured programming guidelines. One may claim that PHP website developing is of necessity neither structured oriented nor object oriented, as general point of view about PHP philosophy which is: Developing fast and dirty websites.

But according to Converse (2002):

Your answer to that question(How OOP Is PHP ?) probably depends on your particular litmus test for object-orientendness. Although PHP offers no support for multiple inheritance and no notion of interface inheritance, it do allows a class definition to inherit from another class using the extends clause. Both member variables and member functions are inherited. From Zend Engine 2 parser onward, PHP support not only constructors but also destructors. This, is the case about Encapsulation and access control as well.(p. 529)

Without any doubt PHP programming language is striving toward object oriented programming schemes and in case of database interaction it is already object oriented. According to Whitney (2007):

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With version 4, PHP added "Unified ODBC," which sought to create consistent database interfaces so that the back-end database could be changed when needed without significant code rewrites. PHP 5 takes that further with PHP Data Objects (PDO), a beta of which was released in February 2005. PDO allows for a consistent, object-oriented syntax for use with multiple database drivers, such as IBM Cloudscape, IBM DB2 Universal Database, Firebird/Interbase, Microsoft SQL Server, MySQL, ODBC, Oracle, PostgreSQL, and SQLite (p. 1).

In addition to source code structure in these two systems, there is a big security hole. Apart from log in page only few more pages check user privilege before executing intended functionality. So intruder can simply log in using low privilege account such as student, fake administration privilege and exploit all critical website functionalities.

These shortcomings resulted in reimplementing the system from scratch. Nevertheless good deal of informations gained from first three phrases, namely requirement gathering, analyzing and system design.

2.1. AUTOMATION AND COMPUTERIZATION

Throughout modern history, mechanization and automation have contributed to, or driven, expansion by reducing the costs of food and material good, stimulating the market for them, providing paychecks for workers to buy those goods, and creating capital to be invested in production of more and still cheaper goods, further stimulating the market.

The first step in automation of business flow is to find out information flow. Correct operator actions, technician activities, and business decisions depend on information from the plant floor. It is therefor important to build an information architecture that captures data from the field and disseminated it throughout the enterprise. The data is distilled as it percolates through the automation, execution, and business levels. (Fazlollahi, 2005, P.2)

A modern plant must have an open network infrastructure that reaches form the lowest levels all the way up to the execution and business levels, permitting hardware from different manufacturers to communicate. Similarly, a plant must have an open software infrastructure starting from the automation system all the way up to the ERP and supply chain applications. Therefore a modern plant requires the use of standards-based networking, with a standard application layer, and then software interfaces on top of that.(Fazlollahi, 2005, P.3)

Ever since organizations have owned more than one data source, they've been moving and copying data from one place to another to capitalize on the "information superhighway" known as the Web. Now, chief information officers (CIOs) everywhere say they spend too much time and money integrating data from disparate sources such as databases, Enterprise Resource Planning (ERP), Customer Relationship Management (CRM), Business Intelligence (BI) systems, legacy and mainframe systems ... and on and on.(Forsyth, 2007)

Major advantage of software is that lots of information can be processed and displayed in a comprehensible way. Large screens and well-organized displays are required to show large amounts of information brought in by modern fieldbus networks without causing clutter. Online data can be shown as dynamic displays can mimic traditional laps, switches, and controller faceplate, etc. Data and events are automatically logged and displayed as trend plots, summarized in reports, or analyzed. Higher-level control functions such as batch management and multi variable optimization can be done in software. Without powerful software, it is impossible to benefit fully from intelligence in fieldbus devices, for example. For any system larger that a handful of loops, software is a better operator interface that panel instruments. (Fazlollahi, 2005, P.3)

Electronic record-keeping (i.e., database storage instead of recorder charts and log sheets) is another important aspect of software. Electronic record-keeping requires database engines with open interfaces that can accept information from different sources and make it available to other applications for analysis. (Fazlollahi, 2005, P.3)

2.2. DISTRIBUTED COMPUTING AND INTERNETWORKING

In essence, distributed system is a collection of independent computers that appears to its users as a single coherent system. In such a system, differences between the various computers and the ways in which they communicate are hidden from users. Users and applications can interact with distributed system in a consistent and uniform way, regardless of where and when interaction takes place. It should also be relatively easy to expand or scale. (Tanenbaum, 2002, P.2)

There is growing interest in distribution automation, the implementation of automation in the distribution system. In this field, the primary problem, limited data rate on the communications channel, is readily solved by using technologies like fiber optics. It must be assumed that it is necessary to communicate with all parts of the network. The data acquisition and control needs of the system mean that it will be necessary to tap into the communications network at a large number of locations. It is also a requirement that communications be possible to all locations even if the configuration of the network changes, if for example because of failure of one or more lines or nodes.(Kikham, 1991, P.1)

In order to organize distributed system into hierarchy of processes which is accessible over network, Client server architecture is used. While concept of client is straight forward, server concept needs more elaboration. A server is a process implementing a specific service on behalf of a collection of clients. In essence each server is organized in the same way: It waits for incoming request from a client and subsequently ensures that the request is taken care of, after which it waits for the next incoming request. (Tanenbaum, 2002, P.149)

Another issue is where clients contact a server, in all cases, clients send requests to an endpoint, also called a port, at the machine where the server is running. Each server listens to a specific endpoint, for example servers handle Internet FTP requests always listed to TCP port 21. likewise, an HTTP server for the World Wide Web will always listen to TCP port 80. These endpoints have been assigned by the Internet Assigned Numbers Authority (IANA) and are documented in (Reynolds and Postel, 1994).

Open source software has perhaps shaped most the markets of web server software , which has become a new market for software products between personal computers and corporate mainframes. The software combination known with acronym LAMP(Linux, Apache, MySQL and PHP/Perl) has been the first choice for many system integrators during the recent years. IBM and Oracle for example sell Linux and Apache-based server solutions; of course, Oracle may run their own database on top of it and also has its own database products.(Mikko, 2005, P.17)

As mentioned above, dominant Web server on UNIX platforms is Apache server. This server server consist of number if modules that are controlled by a single core module. The core module accepts incoming HTTP requests, which it subsequently passes to the other modules in a pipelined fashion. For each incoming request, the core module allocates a request record with fields for the document reference contained in the HTTP request, the associated HTTP request headers, HTTP response header, and so on. Each module operates on the record by reading and modifying fields as appropriate. Finally, when all modules have done their share in processing the request, the last one returns the requested document to the client. (Tanenbaum, 2002, P.664)

2.3. CONTENT MANAGEMENT SYSTEMS

A content management system (CMS) is critical to the success of almost every website and intranet, and yet many organisations are not familiar with this technology. A content management system (CMS) supports the creation, management, distribution, publishing, and discovery of corporate information. It covers the complete lifecycle of the pages on web site, from providing simple tools to create the content, through to publishing, and finally to archiving. It also provides the ability to manage the structure of the site, the appearance of the published pages, and the navigation provided to the users. (Robertson, 2003, P.1)

The content of the site is usually stored in a database when using a CMS, allowing for a robust data structure, and quick and easy backup or data restoration without having to update and maintain hundreds of files or more. Understanding of database design is required when setting up a CMS, along with knowledge of server side scripting languages,

and other languages and code libraries. This is why even though many companies promise the CMS for free with purchase of hosting, it is still a good idea to hire a professional design company to securely set up and maintain the database and site. Sites that are powered by CMS's allow the user multiple options of how the content is published. When adding an article, you can choose to publish it or not, or even choose a publication date. This allows you to add content with time sensitive publication, or to work on the article until satisfied and then choose to publish it, and when published the general public will be able to view the article.(Rutledge, 2007, P.1)

CMS architecture can be Centralized or Decentralized. Centralised authoring involves setting up a dedicated team to create new content, and manage the publishing process. There is close liaison between the team and the business groups that 'own' the content. In this way, the content team acts as a 'service group' for the rest of the organisation. All information that is published by the team is reviewed and signed off by the business, to ensure accuracy and relevance. (Rutledge, 2007, P.2). Decentralised authoring is useful when content for the intranet or corporate website is 'owned' by a number of different business groups within the organisation. It therefore makes sense to give them the direct responsibility for updating their information. In decentralised approach, the authors are scattered throughout different departments, all feeding information into the content management system. (Rutledge, 2007, P.1)

The main selling factor of a CMS is that once it is setup, the web designer is hardly required for further updates, as the site owner can do the updates, or hire an in house person to do so. It is recommended to keep the web design staff around for if the site requires updates that your staff can't handle, or if the site requires fixing. The initial cost of site design and CMS setup is close to, if not less, than older ways of site design that required a web-design company to update the site. With a CMS one can update his or her site in house, which over the long run of owning a site will save more money. A CMS is a cost effective solution, and smart way of owning and maintaining a website that any business should research further.(Rutledge, 2007, P.3)

CHAPTER 3 METHODOLOGY

Since SIIP is huge and rather complicated, consist of large number of users involve which is furthermore sophisticated with the change of Industrial Internship Unit Senior Executive in the middle of project, the requirements for the project is obscure and volatile. Hence in order to develop this project prototyping base methodology is used.

Prototyping base methodology performs the analysis, design and implementation phases concurrently, and all three phases are performed repeatedly in a cycle until the system is completed. In this methodology, the basics of analysis and design are performed and work immediately begins on a system prototype, a 'quick-and-dirty' program that provides a minimal amount of features. The first prototype is usually the first part of the system that the user will use. This is shown to the users and project sponsor who provide comments, which are used to Re-Analysis , Re-Design and Re-Implement a second prototype that provides few more features. This process continues in a cycle until the analysts, users and sponsor agree that the prototype provides enough functionality to be installed and used in the organization. After the prototype is installed, refinement occurs until it is accepted as the new system. (Dennis, 2005, P.10)

3.1. TOOLS REQUIRED

3.1.1. Software Requirement

Server Side Application:

- Apache Tomcat
- MySQL 5
- PHP 5
- Unix base OS (Unix, Linux, Fedora etc.)

Client Side Application:

• Web-Browser support: Internet Explorer 5.0 and above, Mozilla core including Fire Fox and Netscape.

3.1.2. Hardware Requirement

Client Side:

- Pentium III
- 64 MB of RAM
- 30 MB hard-disk

Server Side:

- Dual Core Processor 1.66 GHz or Centrino Processor 3.0 Ghz
- 1 GB of RAM
- 60 GB of hard-disk
- •

3.2. GANTTCHART

Next page figure shows Gantchart for FYP past II.



Figure 1. FYP 2 ganttchart

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CHAPTER 4 RESULTS AND DISCUSSION

As stated above, as-is system suffer from manual system which make Industrial Internship program inefficient, troublesome and slow in marking. Purpose of this research, is to develop an online, computerized system for the UTP Students Industrial Internship Program. The system is expected to serve the following objectives:

- To ease assignment of company for students before industrial internship. All activities under this rubric will be implemented by the website. This includes: Management of students profile, companies profile and the relationship between these two entity in term of student requests and their status.
- To closely monitor the students' performance. Every single week, the students' reports will be evaluated by the Plant Supervisor and later submitted to the SIIU, online. This will ensure that the students are monitored closely in a timely manner.
- To ease the task of scheduling the visits and assigning UTP Supervisors. This product should assist in assigning the students to the respective lecturers, based on their program and host company location. Besides, lecturers can view list of students under their supervision together with the name of host companies.
- To automatically calculate the final mark of students. In addition to preventing miscalculations, this type of task automation reduce staff workloads.

For the mean time, there are several UTP systems that have been migrated to web-based or online system. The major reason for the migrations is simply because the web-based or automated system provides far more efficiency in processing any task domain especially for a system that involves lot of data collections and retrievals. This characteristic elegantly suits the SIIP System.

4.1. SYSTEM'S FUNCTIONAL REQUIREMENTS

From an interview session (refer appendices) with Mr. Noor Affendy, the senior executive of IIU and also referring to previous students who worked on this project, system functional requirements listed below:

4.1.1. Monitoring

The new system should be able to closely monitor students' performance and activities during their internship period. Therefore, the monitoring activities of the new system are done continuously. This is beneficial in a way that it can enhance students' performance from time to time through:

- Confirmation of students' placements by students and Plant Supervisors.
- Online submission of training schedule.
- Online submission of weekly reports.
- Assessment of weekly reports by Plant Supervisor.
- Viewing of students' weekly reports and marks by lecturer and SIIU.
- Assessment of students' performance.
- Assessment of students' final presentations.
- Assessment of students' final report marks.

4.1.2. Scheduling

Scheduling/Timing is important in assigning visits by UTP lecturers to host companies. This is because, each of the party involved including the Plant Supervisor, lecturer, and students themselves, have their own business and personal schedules. Therefore, there should be a systematic way to schedule the visits and also to inform the scheduled visits to the people involved. This can be done through :

- Viewing of all students' placements by SIIU and the Internship Program Coordinator (IPC).
- Assigning students to respective lecturer by the IPC.
- Determining the date and time of visits by lecturers to host companies, which will also be attended by students and their respective Plant Supervisor.

4.1.3. Grading

System should manages the overall students' marks for grading purposes. Those marks which have been keyed-in, either by the lecturer or Plant Supervisor into the system, will be total up in order to obtain a particular student's grade for the internship. After the internship ends, students can obtain their final result through viewing their results from the system.

4.1.4. Reporting

This requirement, which is directly requested by Mr.Affendi, is useful for analyzing purposes which will ease the administrator's tasks. It will appear as "Statistics" header under administration section and let the administrator to view students profile, resumes, applications status. In addition it let administration to view host companies offers status.

4.2. SYSTEM USERS

As for the Industrial Internship Web Portal, five main users have been identified. Those users are:

1. SIIU

SIIU or the system's administrator is the one who gains full control of the system. SIIU plays the most important role in maintaining the correct process flow of the system. The reason is SIIU is major stakeholder of the project and it is its manual system which is about to be replaced by this project.

2. Student

Student is the main user of the system since the system is purposely developed for their internship program or SIIP. Therefore, there are many functionalities of the system those are to be performed by students before Industrial Internship and during Industrial Internship.

3. Plant Supervisor

Plant Supervisor acts as students' mentor at their placements and is close to students

during that period. Plant Supervisor is highly responsible in determining the success of the internship program. His main functionality in respect to this system is Grading and helping to schedule UTP Supervisor visit.

4. Lecturer

Lecturer acts as UTP representative to co-supervise students during their internship together with the Plant Supervisor. Lecturer pays visits to host companies to make sure students are on right track and in case of any unsatisfactory try to settle the problem or change student placement.

5. Authorized Companies

Authorized Companies are companies which offer students Industrial Internship placement. This companies post their criteria in system so students can find appropriate placement. In addition these companies must have privilege to browse students resumes in order to give them placement offer.

4.3. ARCHITECTURE DESIGN

Based on system specifications over all system architecture proposed using the MVC model, which is conceived as a general solution to the problem of users controlling a large and complex data set (Reenskaug, 2003, P.1).

This model first time published in "*Design Patterns, Elements of Reusable Object-Oriented Software*" by Erich Gamma, Richard Helm, Ralph Johnson, and John Vlissides [also known as the Gang of Four (GOF)] has been a de facto reference for any Object-Oriented software developer (Mariano, 2002, P.1)

This architectre also uses open standards based on technologies like PHP and RDBMS.

- 4.3.1. Architecture Diagrams
 - 1. Access Control Service (ACS) :

ACS is responsible for implementing security checks to ensure no unauthorized users access information.

2. Document/Page Management Service (D/PMS) :

D/PMS is responsible for maintaining the structure (folders) of the content and fetching requested content on demand. D/PMS works with the Content Cache(CCS) and Version Management Service(VMS) to server requested content.



Figure 2: Industrial Internship Web Portal Architecture Diagram.

3. Version Management Service (VMS)

VMS is responsible for managing multiple versions of content (documents) in the system. Documents can have many versions to support content roll-backs and multiple locales.

4. Content Caching Service (CCS)

Frequently requested content is cached by the CCS to reduce the server load and increase application response times. In addition to objects, part (regions) of web pages (which have a high assembly cost) too can be cached in the CCS. CCS is responsible for expiration of cached content when changes to content or newer versions are detected.

5. Job Scheduling Service (JSS)

JSS handles execution of pre-defined one-time or periodic tasks in the background.

6. Access Logging Service (ALS)

ALS logs each requested page/document/file. Along with the name of the requested document, ALS also logs additional demographic information like:

- Country of origin
- Date and time of request
- Referring URL
- Username (if available)
- User's ISP's hostname and IP address
- Browser

ALS along with Reporting Service (RS) provides the ability to perform detailed hit analysis.

7. Reporting Service (RS)

Various reports for analysis of user activity are provided by the Reporting Service. Reports can be exported to multiple formats like PDF, Microsoft Excel, RTF, CSV and XML. Data exported as XML or CSV can then be imported into other systems for further use if required.

8. Personalization Service (PS) :

PS works in conjunction with the Page Assembly Service to fetch data personal to the user making the request.

9. Search/Indexing Service (SIS) :

SIS is responsible for indexing the website content and answering search queries. Intelligent cross linking of content based on metadata is also handled by SIS.

10. Templating and Page Assembly Service (T/PAS) :

Page assembly involves collating various content fragments that make up the page via content channels.

11. Database Abstraction Layer (DAL) :

DAL separates the business logic from the underlying database. This makes it possible to port Activesite onto many other databases.

12. Relational Database :

All content is stored in a relational database. Database access is segregated into a different layer to facilitate porting the application onto more RDBMS servers.



Figure 3: Industrial Internship Web Portal Class Diagram.

4.4. SYSTEM SNAPSHOT

Following figures depicts system snapshots. First two figure shows system main page which is open to all users including guess. Materials in entrance page don't need any privilege and they are open to all users. Figure 3 to 14, shows Administration page. In this page which is mostly intended to SIIU staff, user can update announcements, and new users off any type and privilege, view statistics related to students and lecturer's. Rest of figures, that is figure 15 to 18, shows first page appeared for other users. Functionalities on these parts are under development at the time of this writing.

4.4.1. System Main Page

Following twp snapshots depict system main page. Opening these pages does not need any privilege and their functionalities consists of login, view archive, view course materials and view SIIU staff profiles.



Figure 4: Industrial Internship Web Portal Entrance Page



Figure 5: Industrial Internship Web Portal -> View All Announcements

4.4.2 Administrator Page

Following snapshots depict administration page. These pages consist of updating announcement archive, uploading items, adding users, searching students and lecturers and companies, updating SIIU staff profile and finally generating report about status of students.



Figure 6: Industrial Internship Web Portal -> Administrator Page

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Figure 7 : Industrial Internship Web Portal -> Administrator Page -> Update

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Figure 8 : Industrial Internship Web Portal -> Administrator Page -> Update Announcement -> Edit

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Figure 9 : Industrial Internship Web Portal -> Administrator Page -> Update

Announcement -> Edit -> Submit

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Figure 10: Industrial Internship Web Portal -> Administrator Page -> Update Announcement -> Upload new Archive

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Figure 11 : Industrial Internship Web Portal -> Administrator Page -> Upload New Item

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Figure 12: Industrial Internship Web Portal -> Administrator Page -> Add new User

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Figure 13 : Industrial Internship Web Portal -> Administrator Page -> Add new User -> Administrator

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Figure 14 : Industrial Internship Web Portal -> Administrator Page -> Add new User -> Lecturer

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Figure 15: Industrial Internship Web Portal -> Administrator Page -> Add new User ->

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Figure 16: Industrial Internship Web Portal -> Administrator Page -> Add new User -> plant Supervisor
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Figure 17: Industrial Internship Web Portal -> Administrator Page -> Add new User -> Authorized Companies

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Figure 18: Industrial Internship Web Portal -> Administrator Page -> View List Of Student To Check Submitted Materials

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Figure 19: Industrial Internship Web Portal -> Administrator Page -> Search Students

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Figure 20: Industrial Internship Web Portal -> Administrator Page -> Result of Search

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Figure 21: Industrial Internship Web Portal -> Administrator Page -> Report Generation

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Figure 22: Industrial Internship Web Portal -> Administrator Page -> View All Lecturers



Figure 23: Industrial Internship Web Portal -> Administrator Page -> Search Lecturers

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Figure 24: Industrial Internship Web Portal -> Administrator Page -> Result of Search

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Figure 25: Industrial Internship Web Portal -> Administrator Page -> Course Documents

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Figure 26: Industrial Internship Web Portal -> Administrator Page -> SIIU Profiles

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Figure 27: Industrial Internship Web Portal -> Administrator Page -> Search Companies

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Figure 28: Industrial Internship Web Portal -> Administrator Page -> View SIIU Profiles

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Figure 29: Industrial Internship Web Portal -> Administrator Page ->

View Student Full Profile



Figure 30: Industrial Internship Web Portal -> Administrator Page -> View Form ITC-A

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Figure 31: Industrial Internship Web Portal -> Administrator Page -> View Form ITC-C



Figure 32: Industrial Internship Web Portal -> Administrator Page ->

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Figure 33: Industrial Internship Web Portal -> Administrator Page -> View Specified

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Figure 34: Industrial Internship Web Portal -> Administrator Page ->

View Oral Presentation Marks

4.4.3 Lecturer's Page Snapshot

Following snapshot demonstrate lecturers page. Users with this privilege can visit students under their supervision, brows through archive, mark weekly report and finally mark final report.

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Figure 35: Industrial Internship Web Portal -> Lecturers' Page

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Figure 36: Industrial Internship Web Portal -> Lecturers' Page-> Update Profile

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Figure 37: Industrial Internship Web Portal -> Lecturers' Page-> Search Students

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Figure 38: Industrial Internship Web Portal -> Lecturers' Page->

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Figure 39: Industrial Internship Web Portal -> Lecturers' Page -> Submit Form ITC-D



Figure 40: Industrial Internship Web Portal -> Lecturers' Page-> Form ITC-D Body

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Figure 41: Industrial Internship Web Portal -> Lecturers' Page-> Submit Final Grade



Figure 42: Industrial Internship Web Portal -> Lecturers' Page-> Submit Final Grade Body

4.4.4 Student's Page Snapshot

Following snapshots demonstrate student page. Users with this student privilege fall under two categories according to their placement status. First group consists of students who have not get placement yet. This group can update their profile, upload their resume, search for companies, send application letters, accept or reject offer letters and finally check their placement status. Second group consists of students who got their placement. These students can type their weekly report, type their detailed report and submit form ICT-A.

Both group of users have general privileges like browsing through archive and checking uploaded materials.

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Figure 43: Industrial Internship Web Portal -> Students' Page



Figure 44: Industrial Internship Web Portal -> Students' Page-> Upload Resume

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Figure 45: Industrial Internship Web Portal -> Students' Page-> Search Companies

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Figure 46: Industrial Internship Web Portal -> Students' Page-> Check Placement Status

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Figure 47: Industrial Internship Web Portal -> Students' Page-> Submit Form ITC-A

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Figure 48: Industrial Internship Web Portal -> Students' Page-> Training Schedule

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Figure 49: Industrial Internship Web Portal -> Students' Page-> Weekly Reports

4.4.5 Plant Superior Page

This page consist of plant supervisor functionalities which consists of updating profile, marking weekly reports, submission of 19 attribute form and finally submission of oral presentation marks.



Figure 50: Industrial Internship Web Portal -> Plant Supervisor's Page

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Figure 51: Industrial Internship Web Portal -> Plant Supervisor's Page-> Update Profile

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Figure 52: Industrial Internship Web Portal -> Plant Supervisor's Page->

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Figure 53: Industrial Internship Web Portal -> Plant Supervisor's Page -> List of Reports

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Figure 54: Industrial Internship Web Portal -> Plant Supervisor's Page -> Report Body



Figure 55: Industrial Internship Web Portal -> Plant Supervisor's Page->

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Figure 56: Industrial Internship Web Portal -> Plant Supervisor's Page-> Submit Form ITC-D

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Figure 57: Industrial Internship Web Portal -> Plant Supervisor's Page->

Submit From ITC-D Body

4.4.6 Authorized Companies Page

This page consists of authorized companies privileges. It includes updating company profile, searching students, sending them offer letter and finally accept or reject student application letters.



Figure 58: Industrial Internship Web Portal -> Authorized Company's Page

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Figure 59: Industrial Internship Web Portal-> Authorized Company' Page-> Update

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Figure 60: Industrial Internship Web Portal -> Authorized Companies' Page-> Search

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Figure 61: Industrial Internship Web Portal -> Authorized Companies' Page-> Search

Results

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Figure 62: Industrial Internship Web Portal -> Authorized Companies' Page-> View all

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Figure 63: Industrial Internship Web Portal -> Authorized Companies' Page-> View

Pending Application letters



Figure 64: Industrial Internship Web Portal -> Authorized Companies' Page-> View Pending Offer Letters

4.5 System Testing

System tested by Industrial Internship Unit on September 20, 2007. Test conducted primarily on 80 identified system functionality for all five groups of users plus guest user. Out of 80 functionalities, 72 functions ran smoothly, 6 function ran smoothly but additional requirement added and 2 functions ran with partial bugs. Figure below depict the result in pie chart graph:



Figure 65: SIIU Web Site Testing Results.

Additional requirements are as follow:

- 1. After Plant Supervisor submit form ITC-D Java Script pop up menu should alarm if rang and sum of marks are not valid.
- 2. Student update profile section should be further aligned.
- 3. Student can check if his/her resume is uploaded.
- 4. Authorized Companies need to use CGPA rather than GPA.
- 5. Authorized Companies Search students section needs further interface elaboration.
- 6. After lecturer submitted final grade, final score of student should be calculated automatically according to online guide mentioned weights.

Two bugs discovered include:

- 1. While student feels weekly report, by pressing Enter the form will be submitted though it is not completed.
- 2. Incomplete forms once submitted cause further bugs when student checks his/her weekly reports marks.

According to Mr. Affendi once these bugs removed system provide 50 percent of whole business flow. By rectifying text boxes and adding functionality which let administration import Excel files system can sustain 65 percent of business process.

As such he is would like to ask CIS department to allocate necessary resources and supervise another student to continue working on this project as his or her FYP on coming semester.

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APPENDICES

Appendix 1. Interview with Mr.Affendi

After visiting system's first prototype, Mr.Affendi expressed his opinion as below: This system (first prototype) mostly focus on bulletin and forums functionalities. In fact it is good, but at the moment there are other functionalities which have higher priorities for us. Activities which we expect this system to do is tracing student before industrial internship, let them submit their weekly report during industrial internship and let plant supervisor to mark them online. It is of grate importance that every thing in system would be real time, once user change his profile, upload his resume and so on, the affect should be disseminate throughout system.

Points mentioned above worth more elaboration. At the moment we have difficulties tracing students status during the semester before industrial internship. It might happen that some companies send students offer letter which they never receive or student who send their application letter to the company whom never receive. In addition we don't have any system to tell other companies a specific student found a placement and consequently allocate their offer to another student. Apart from students, companies who offer placements don't have any online system to check students strength and weaknesses so they can choose accordingly. As such, the system should let students to upload their resume, GPA, CGPA and let privileged companies to view them and send them offer letter. It might be considerable to put two weeks limitation for student to accept the offer and terminate the offer after two weeks if student doesn't confirm.

Another aspect of system is active during industrial internship where student can submit their weekly report online. System should save time stamp when student submit their report so late submissions would be recognizable. By the time student submit his or her report plant Supervisor should be able to open students report and mark them online. As mentioned above this whole thing must be real time so UTP supervisor can check grades right away and in case there is any problem or miss understanding, he or she try to help. arrival of students mark from host company which is a normal case where company's location is far from UTP or possibly is not in Malaysia.

Finally after industrial internship lecturer's must be able to mark reports on the website and send final marks to IIU. At the moment this process is troublesome and time consuming. Specifically considering late arrival of students mark from host company which is a normal case where companiy's location is far from UTP or possibly is not in Malaysia.

Appendix 2. Test Cases

Test Case ID:		Original Autl	Original Author:IOriginal Date:I		y :		
Parent Use Case ID:					Original Date	Last Updated On:	
Test	Objective: T	'est Gue	st User Functionalitie	es			
Item	Test	Operat	or Action	Input	Output	Pass/	Comments
No.	Condition	(Flow (of Event)	Specification	Specification	Fail	
			- · · · ,	1	(Expected		
					Result)		
		1.	User click on		List of	: 	
1.	Guest User		Course Documents		uploaded		
	want to	-			materials		
	view				annear and		
	course				user can		
	materials				download		
	materials				them		
	····· <u>-</u> ····	1.	User click on Staff		List of staff		
2.	Guest User		Information		will appear		
	want to		momation		and user can		
	view SIII				view		
	staff				individual		
	nrofile				nrofiles		
	Promo	1.	User click on View		Announceme		

	want to	2. From appeared list	appear to the	
	view	user click on one of	user.	
1	announc	e announcements		
	ments			

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Parent Use Case ID: Original Date:			Last Updated On:					
Test	Objective: T	Test Adr	ninistration functional	ities				y manifest Art. Toos has a survey of Vices and a Mart and
Item	Test	Operat	or Action	Input Specif	ication	Output	Pass	Comments
No.	Condition (Flow of Ev		of Event)			Specification	1	
						(Expected	Fail	
						Result)		
		1.	Administrator enter			User is directed		
1.	Administra		user name and			to administration		
	tor Logs in		password			page.		
	to the	2.	Administrator enter					
	system.		submit button					
	Administra	1.	Administrator click	Date:Varcha	ır(200)	New		
2.	tor upload		on upload new	Header: Var	char(200)	Announcement		
	new		announcement	Brief: Varch	ar(200)	will be uploaded		
	announce	2.	Administrator click			and appear on		
	ment		on Upload new			first item	AL	
			archive					
		3.	Administrator fill				1	
			up form					
		4.	Administrator					
			Submit form					

	Administra	1.	Administrator click	Date:Varchar(200)	Modified	
3.	tor Edit		on upload new	Header: Varchar(200)	announcement	
	announce		announcement	Brief: Varchar(200)	will be appear	
	ment	2.	Administrator click		instead of	
			on Edit		previous one	
		3.	Administrator fill			
			up form			
		4.	Administrator			
			Submit form			
	Administra	1.	Administrator click		Selected	
4.	tor		on upload new		announcement	
	Remove		announcement		will be removed	
	announce	2.	Administrator click			
	ment		on Remove			
					······································	
	Administra	1.	Admin Click on	Name:Varchar (200)	List of students	
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5.	Administra tor search students by	1. 2.	Admin Click on search student Admin type part of	Name:Varchar (200)	List of students which contain the name will	
5.	Administra tor search students by name	1. 2.	Admin Click on search student Admin type part of student name	Name:Varchar (200)	List of students which contain the name will appear.	
5.	Administra tor search students by name	1. 2. 3.	Admin Click on search student Admin type part of student name Admin Click	Name:Varchar (200)	List of students which contain the name will appear.	
5.	Administra tor search students by name	1. 2. 3.	Admin Click on search student Admin type part of student name Admin Click submit button	Name:Varchar (200)	List of students which contain the name will appear.	
5.	Administra tor search students by name Administra	1. 2. 3.	Admin Click on search student Admin type part of student name Admin Click submit button Admin Click on	Name:Varchar (200)	List of students which contain the name will appear. List of students	
5.	Administra tor search students by name Administra tor search	1. 2. 3.	Admin Click on search student Admin type part of student name Admin Click submit button Admin Click on search student	Name:Varchar (200)	List of students which contain the name will appear. List of students under specified	
5.	Administra tor search students by name Administra tor search students by	1. 2. 3. 1. 2.	Admin Click on search student Admin type part of student name Admin Click submit button Admin Click on search student Admin Choose	Name:Varchar (200)	List of students which contain the name will appear. List of students under specified sponsor will	
5.	Administra tor search students by name Administra tor search students by Sponsor	1. 2. 3. 1. 2.	Admin Click on search student Admin type part of student name Admin Click submit button Admin Click on search student Admin Choose sponsor name	Name:Varchar (200)	List of students which contain the name will appear. List of students under specified sponsor will appear	
5.	Administra tor search students by name Administra tor search students by Sponsor	1. 2. 3. 1. 2. 3.	Admin Click on search student Admin type part of student name Admin Click submit button Admin Click on search student Admin Choose sponsor name Admin Click	Name:Varchar (200)	List of students which contain the name will appear. List of students under specified sponsor will appear	
5.	Administra tor search students by name Administra tor search students by Sponsor	1. 2. 3. 1. 2. 3.	Admin Click on search student Admin type part of student name Admin Click submit button Admin Click on search student Admin Choose sponsor name Admin Click submit button	Name:Varchar (200)	List of students which contain the name will appear. List of students under specified sponsor will appear	
6	Administra tor search students by name Administra tor search students by Sponsor	1. 2. 3. 1. 2. 3. 1.	Admin Click on search student Admin type part of student name Admin Click submit button Admin Click on search student Admin Choose sponsor name Admin Click submit button Admin Click on	Name:Varchar (200)	List of students which contain the name will appear. List of students under specified sponsor will appear List of students	
	students by	2.	Admin Choose		country will	
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	nationality		Nationality name		appear.	
		3.	Admin Click			
[submit button			
	Administra	1.	Admin Click on	Name: Num (4)	List of student	
8	tor search		search student		with specified	
	students by	2.	Admin type student		metric will	
	metric		Metric		appear.	
		3.	Admin Click			
			submit button			
	Administra	1.	Admin Click on	Name: Float (5)	List of student	
9	tor search		search student		with specified	
	students by	2.	Admin type student		CGPA will	
-	CGPA		Metric		appear.	
		3.	Admin Click			
			submit button			
	Administra	1.	Admin Click on		List of students	
10	tor search		search student		from specified	
	students by	2,	Admin Choose		department will	
	Departmen		student department		appear.	
	t	3.	Admin Click			
			submit button	: 		¢
	Administra	1,	Admin click on		List of all	
11	tor view		view all students		students will	
	all students			I 	appear.	
ł	Administra	1.	Admin click on		List of student	
12	tor view		view student status		with specified	
	student				criterion will	

	submission				appear
	status				
	Administra	1,	Admin click on		Student profile
13	tor view		view student marks		will appear
	student		and form		
:	forms and	2.	admin choose		
	marks		student from list		
	Administra	2.	Admin search		Student profile
14	tor view		student and click on		will appear and
	student		his/her name		submitted marks
	profile				and forms can be
					downloaded
	Administra	1.	Admin Click on	Name:Varchar (200)	List of Lecturers
15	tor search		search Lecturer		which contain
	Lecturer	2.	Admin type part of		the name will
	by name		Lecturer name		appear.
	î I I	3.	Admin Click		
			submit button		
	Administra	1.	Admin Click on		List of Lecturers
16	tor search		search Lecturer		from specified
	Lecturer	2.	Admin Choose		department will
	by		Lecturer		appear.
	Departmen		department		
	t	3.	Admin Click		
			submit button		
	Administra	1.	Admin search		Lecturer profile
17	tor view		lecturer and click		will appear
	Lecturer		on his/her name		

	profile					
	Administra	1.	Admin click on		List of all	
18	tor view		view all Lectures		Lecturer will	
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	Lecturers					
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19	tor search		search Company		Companies	
	Companies	2.	Admin type part of		which contain	
	by name		Company name		the name will	
		3.	Admin Click		appear.	
			submit button			
	Administra	1.	Admin Click on		List of Company	
20	tor search		search Company		from specified	
	Company	2.	Admin Choose		section will	
	by		Company OPU/non		appear.	
	OPU/Non		OPU			
	OPU	3.	Admin Click			
			submit bottom			
	Administra	1.	Admin Click on		List of Company	
21	tor search		search company		from specified	
	Company	2.	Admin Choose		industry will	
	by		Company industry		appear.	
	Industry	3.	Admin Click			
1			submit button			
	Administra	1.	Admin Click on		List of Company	
22	tor search		search Company		from specified	
	Company	2.	Admin Choose		Country will	
	by Country		Company Country		appear.	

		3.	Admin Click			
c			submit button			
	Administra	1.	Admin click on		List of all	
23	tor view		view all Company		Company will	
	all				appear.	
	Company					
24	Administra	1.	Admin search		Company profile	
ŕ	tor view		Company and click		will appear	
	Company		on name			
 	profile					
	Administra	1.	Administrator Click	Name:Varchar(200)	New staff profile	
25	tor Update		on update SIIU staff	Contact No:	will be created	
	SIIU Staff	2.	Admin Click on add	Varchar(200)	and appear in the	
			new staff	Email:varchar(200)	list	
		3.	Admin fill up the	 		
			form			
		4.	Admin Submit the			
			form			
	Administra	1.	Administrator Click	Name:Varchar(200)	New staff profile	
26	tor Edit		on update SIIU staff	Contact No:	will be created	
	SIIU staff	2.	Admin Click on	Varchar(200)	and appear in the	
	from list		Edit staff	Email:varchar(200)	list	
		3.	Admin fill up the			
			form			
		4.	Admin Submit the			
			form			
	Administra	1.	Administrator Click		Specified staff	
27	tor		on update SIIU staff		profile will be	

	Remove	2.	Admin Click on		deleted		
	SIIU staff		remove				
	from list						
	Administra	1.	Admin Click on add	Name:Varchar(200)	New student		
28	tor Add		new user	Contact No:	account will be		
	new	2.	Admin click on add	Varchar(200)	created.		
	Student		new student	Email:varchar(200)			
		3.	Admin fill up the	CGPA:Float(5.2)			
			form	User			
		4.	Admin submit the	name:Varchar(200)			
			form	Password:Varchar(200)			
	Administra	1.	Admin Click on add	Name:Varchar(200)	New Lecturer		
29	tor Add		new user	Contact No:	account will be		
	new	2.	Admin click on add	Varchar(200)	created.		
	Lecturer		new Lecturer	Email:varchar(200)			
		3.	Admin fill up the	CGPA:Float(5.2)			
			form	User			
1		4.	Admin submit the	name:Varchar(200)			
			form	Password:Varchar(200)			
	Administra	1.	Admin Click on add	Name:Varchar(200)	New Authorized		
30	tor Add		new user	Contact No:	Company		
	new	2.	Admin click on add	Varchar(200)	account will be		
	Authorizes		new Authorized	Email:varchar(200)	created.		
	Company		Company	User			
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			form	Password:Varchar(200)			
		4,	Admin submit the				
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31	tor Add		new user	Contact No:	Administrator]
	new	2.	Admin click on add	Varchar(200)	account will be		.
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			form	name:Varchar(200)			
		4.	Admin submit the	Password:Varchar(200)			
			form				
 	Administra	1.	Admin Click on add	Name:Varchar(200)	New Planet		 1
32	tor Add		new user	Contact No:	supervisor		İ
	new Plant	2.	Admin click on add	Varchar(200)	account will be		í.
	Supervisor		new Administrator	Email:varchar(200)	created.	ļ	
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			form	name:Varchar(200)			
		4.	Admin submit the	Password:Varchar(200)			
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		5.	Admin Choose				
			student to under				L
i i			new PS supervision				
		6.	Admin Submit the	 -			
			form)			

Test	Case ID:		Original Autho	r: L	ast Upd	lated By:			
Pare	nt Use Case II	D:	Original Date:		Last Updated On:				
Test	Objective: Te:	st Auth	orized Companies Fur	nctionalities		, <u> </u>			
	1.								
Item	Test	2.	Operator Action	Input Specifi	cation	Output	Р	Comments	
No.	Condition	3.	(Flow of Event)			Specification	ass/		
			70- and for + Ministrational de			(Expected Result)	Fail		
1		1.	AC enter user name	User		AC is directed to			
•	Authorized		and password	name:Varcha	ar(200)	AC page.		and the second second second second second second second second second second second second second second second	
	Companies	2.	AC click on submit	Password:Va	archar(2				
	Logs in to		button	00)					
	the system.								
2		1.	AC click on Update	Name: Varcha	ar(200)	Modified profile			
	Authorized		company profile	Contact No:		will be saved into			
	Companies	2.	AC fill up the form	Varchar(200))	the Database			
	Update its	3.	AC click on submit	Email:varcha	ar(200)				
	profile		button	Password:Va	archar(2				
•••				00)					
3	Authorized	1.	AC Click on search	Name:Varcha	ar	List of students			
	Companies		student	(200)		which contain the			
	search	2.	AC type part of			name will appear.		 :	
	students by		student name					:	
	name	3.	AC Click submit					: : : :	
			1			•		i	

		1			1	1	4	1	
	4	Authorized	1.	AC Click on search		List of students			ĺ
		Companies		student		under specified			
		search	2.	AC Choose sponsor		sponsor will			
		students by		name		appear			
		Sponsor	3.	AC Click submit					
				button					
	5	Authorized	1.	AC Click on search		List of students			
		Companies		student		From specified			
		search	2.	AC Choose		country will			1
		students by		Nationality name		appear.			-
		nationality	3.	AC Click submit					
				button					
	6	Authorized	1.	AC Click on search	Name: Num (4)	List of student			
		Companies		student		with specified			
		search	2.	AC type student		metric will			
		students by		Metric		appear.			
		metric	3.	AC Click submit					
				button		· · · · · · · · · · · · · · · · · · ·		-	
	7	Authorized	1.	AC Click on search	CGPA: Float (5)	List of student			
	•	Companies		student		with specified			
The second second second second second second second second second second second second second second second s		search	2.	AC type student		CGPA will			
		students by		CGPA		appear.			
		CGPA	3.	AC Click submit					1
				button	·			 	
	8	Authorized	1.	AC Click on search		List of students			
		Companies		student		from specified			
		search	2.	AC Choose student		department will			
		students by		department		appear.			

	Department	3.	AC Click submit button			
9	Authorized	1.	AC click on view all		List of all students	
	Companies		students		will appear.	
	view all					
	students					·
1	Authorized	1.	AC search student		Company's offer	
0	Companies		by view all or by		letter will be	
•	Send		search		saved in database	
	student	2.	AC click on send			
	offer letter		offer			
1	Authorized	1.	AC Click on view		Company's offer	
1	Company		application letters		letter will be	
•	Accept	2.	From list appears		saved inside	
	Application		AC click on send		database	
	letter		offer letter			
1	Authorized	1.	AC Click on view		Student	
2	Company		application letters		application letter	
•	Reject	2.	From list appears		will be removed	
	Application		AC click on Reject		from database	
	letter					
1	Authorized	1.	AC Click on view		List of pending	
3	Company		pending offer letters		offer letter	
 . •	Check				appears.	
/ 	Pending					
 	offer letters			 		
1	Authorized	1.	AC Click on view		Specified offer	
4	Company		pending offer letters		letter will be	

	want to	2.	From list appeared,	removed from			
	cancel		AC click on Cancel	database.			
	offer letters			 	 	 	

Test	Case Work]	Paper –	<u>Industrial Internshi</u>	p Automatio	<u>)n</u>			
Test	Case ID:		Original Auth	or:	Last Updat	ed By:		
Pare	nt Use Case	ID:	Original Date:		Last Updat	ed On:		
Test	Objective: T	est Stud	ent functionalities			Τ	1	ı,
Item No.	Test Condition	Operat (Flow	or Action of Event)	Input Speci	fication	Output Specification	Pass/ Fail	Comments
1	1.		Student enter user	dent enter user User		(Expected Result) Student is		
	Student		name and password	name:Varch	nar(200)	directed to		
	Logs in to the system.	2.	Student click on submit button	Password:V	archar(200)	Student page.		
2		1.	Student click on	Name:Varc	har(200)	Modified profile		
	Student		Update company	Contact No	:	will be saved into		
-	Update its		profile	Varchar(20	0)	the Database		
	profile	2.	Student fill up the	Email:varcl	nar(200)			
			form	Password: V	archar(200)			
		3.	Student click on submit button					
3		1.	user click on	Size(resum	e)< 2MB	Chosen resume		

				[1	
	Student		upload resume		should be	
	Upload	2.	user choose the file		uploaded to the	
	his/her		to be uploaded.		server	
	resume	3.	User click on			
			submit button			
4	Student	1.	Student Click on	Name:Varchar (200)	List of	
•	search		search Company		Companies which	
	Companies	2.	Student type part of		contain the name	
	by name		Company name		will appear.	
		3.	Student Click			
			submit button			
5	Student	1.	Student Click on		List of Company	
	search		search Company		from specified	
	Company	2.	Student Choose		section will	
	by		Company OPU/non	r t	appear.	
	OPU/NonO		OPU			
	PU	3.	Student Click			
			submit button			
6	Student	1.	Student Click on		List of Company	
	search		search Company		from specified	
	Company	2.	Student Choose		industry will	
	by Industry		Company industry		appear.	
		3.	Student Click			
			submit button			
7	Student	1.	Student Click on		List of Company	
•	search		search Company		from specified	
	Company	2.	Student Choose		Country will	
	by Country		Company Country		appear.	

		3.	Student Click		
			submit button		
8	Student	1.	Student click on	List of all	
•	view all		view all Company	Company will	
	Company			appear.	
9	Student	1.	AC search student	Company's offer	
	Send		by view all or by	letter will be	
	student		search	saved in database	
	offer letter	2.	AC click on send		
			offer		
1	Student	1.	Student search for	Application letter	
0	send		the company	will be sent to	
•	Application	2.	Student click on	Company	
	letter		apply for placement		
1	Student	1.	Student click on	List of pending	
1	check its		check my	applications will	
•	pending		placement status	appear to the user	
	application	2.	Student click on		
	letters		view my pending		
			applications	 	
1	Student	1.	Student click on	Application letter	
2	remove its		check my	will be removed	
	pending		placement status	from database	
	application	2.	Student click on		
	letters		view my pending		
			applications		
		3.	Student press on		
			cancel button		

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1	Student	1.	Student click on		List of pending		
3	check its		check my		offer letters will		
•	pending		placement status		appear to the user		
	offer letters	2.	Student click on				
			view my pending				
			offer letters				
1	Student	1.	Student click on		Student will be		
4	accept its		check my		enroled to		
	pending		placement status		specified		
	offer letters	2.	Student click on		company and		
			view my pending		his/her status will		
			offer letters		be changed		
		3.	Student click on				
			accept				
1	Student	1.	Student click on	IC No: Varchar(200)	Form ITC-A will		1
5	submit		Submit form ICT-A	Host Address:	be saved inside		
•	form ITC-	2.	Student fill up the	Varchar(200)	database		
	А		form	Host email:			
	1	3.	Student Submit the	Varchar(200)			
			form	Host Contact:			
1				Varchar(200)			
				SP name: Varchar(200)		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
				SP contact:			
				Varchar(200)			
 				SP Email: Varchar(200)			
1	Student	1.	Student click on	Department Section:	Training schedule		
I .			Carl and the Third in the	Varchar(200)	will be saved		

	training		schedule.	Training Activities:	inside database.	
	schedule	2.	Student fill up the	Varchar(200)		
			form			
		3.	Student Submit the			
			form			
1	Student	1.	Student click on	Objective: Varchar(200)	Specified weekly	
7	submit		Submit Training	Content : Text	report will be	
•	weekly		schedule.	Date: Varchar(200)	saved inside	
	report	2.	Student fill up the	Brief desc:	database	
			form	Varchar(200)		
		3.	Student Submit the			
			form			
1	Student	1.	Student click on		Weekly report	
8	view		view my weekly		including their	
•	his/her		report		marks if allocated	
	weekly				will be appear to	
·	reports				user	

Test	Test Case Work Paper – <u>Industrial Internship Automation</u>										
Test Case ID:Original AutParent Use Case ID:Original Dat			ihor: Last Update		ed By:						
			Original Dat	Original Date:		ed On:					
Test	Objective: 7	Fest Plar	nt supervisor function								
Item	Test	Operat	or Action	Input Specif	tication	Output	Pass/	Comments			
No.	Condition	(Flow (of Event)			Specification	Fail				
						(Expected Result)					
1		1.	Plant Supervisor	User name:	Varchar(200)	Student is	1				
•	Plant		enter user name	Password:V	archar(200)	directed to					
	Supervisor		and password			Student page.					
	L .]					

	Plant		enter user name	Password:Varchar(200)	directed to	
	Supervisor		and password		Student page.	
	Logs in to	2.	Plant Supervisor			
	the system.		click on submit			
			button			
2		1.	Plant Supervisor	Name:Varchar(200)	Modified profile	
	Plant		click on Update	Contact No:	will be saved into	
	Supervisor		company profile	Varchar(200)	the Database	
	Update its	2.	Plant Supervisor	Email:varchar(200)		
	profile		fill up the form	Password:Varchar(200)		
		3.	Plant Supervisor			
			click on submit			
			button			
3		1.	PS click on mark	Mark:Int() < 100	Specified report	
	Plant		weekly report		for specified	
	Supervisor	2.	PS click on student	·	student will be	

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	mark		name		marked
	weekly	3.	PS click on report		
	report		week number		
		4.	PS mark the report		
	-	5.	PS submit the form		
4	Plant	1.	PS click on form	Comment:Varchar(200)	Specified student
•	Supervisor		С.		form will be
	Submit	2.	PS click on student		saved inside the
	form C		name.		database.
		3.	PS fill up form		
		4.	PS submit the form		
5	Plant	1.	PS click on form	Clarity: Int < 100	Form D for
	Supervisor		D.	Visual: int < 100	specified student
	Submit	2.	PS click on student	F and Q : int < 100	will be saved in
	form D		name.	Content: Int < 100	database.
		3.	PS fill up form	Total : Int < 100	
		4.	PS submit the form	:	

Test C	ase Work I	Paper –	Industrial Internshi	p Automati	<u>on</u>			
Test C	ase ID:		Original Auth	Dr:	Last Updat	ed By:		
Paren	t Use Case]	ÍD:	Original Date:		Last Updat	ed On:		••• ••• ••• ••• ••• ••• ••• ••• ••• ••
Test C	bjective: T	est Lect	urer functionalities				<u>.</u>	
Item No.	n Test Operator Action Condition (Flow of Event)		Input Specification		Output Specification	Pass/ Fail	Comments	
						(Expected Result)		
1.		1.	Lecturer enter user	User		Student is		
	Lecturer		name and password	name:Varcl	har(200)	directed to		
	Logs in to	2.	Lecturer click on	Password:	/archar(200)	Student page.		
	the system.		submit button				ſ	
2.		1.	Lecturer click on	Name:Varc	char(200)	Modified profile		
	Lecturer		Update company	Contact No	:	will be saved		
	Update its		profile	Varchar(20	0)	into the Database		
	profile	2.	Lecturer fill up the	Email:vare	har(200)			
			form	Password:	/archar(200)		:	
		3.	Lecturer click on					
			submit button					
3.		1.	Lecturer click on	Mark:Int()	< 100	Specified report		
	Plant		mark weekly report			for specified		
	Superviso	2.	_ click on student			student will be		
	r mark		name			marked		

	weekly	3.	_ click on report				
	report		week number				
		4.	Lecturer mark the				
			report				
		5.	Lecturer submit the				
			form				
4.	Lecturer	1.	Lecturer Click on	Name:Varchar (200)	List of students		
	search		Student under my		which contain		
	students		supervision		the name will		
	by name	2.	Lecturer type part		appear.		
			of student name				
		3.	Lecturer Click				
			submit button				
5.	Lecturer	1.	Lecturer Click on	Metric:Int ()	List of students		
	search		Student under my		with specified		
	students		supervision		criteria will		
	by Metric	2.	Lecturer type part		appear.		
			of student Metric				
			number				
		3.	Lecturer Click				
			submit button				
6.	Lecturer	1.	Lecturer Click on		Specified student		
	Add		Student under my		will be added		
	student to		supervision		under this		
	his/her	2.	Lecturer search		lecturer		
	supervisio		student		supervision		
	n	3.	Lecturer add				
			student				

7.	Lecturer	1.	Lecturer click on	Clarity: Int < 100	Form D for
	Submit		form D.	Visual: int < 100	specified student
	form D	2.	Lecturer click on	F and Q : int < 100	will be saved in
			student name.	Content: Int < 100	database.
		3.	Lecturer fill up	Total : Int < 100	
			form		
)	4.	Lecturer submit the		
			form		
8.	Lecturer	1.	Lecturer click on	Grade: Int < 100	Final grade will
	Submit		Submit final grade		be submitted and
	final	2.	Lecture fill up the		student status
	grade		form		will be changed.
		3.	Lecturer submit the		
			form		