**TEMASEK POLYTECHNIC**

**SCHOOL OF INFORMATICS & IT**

**Software Engineering (SWEN)**

**AY2017/2018 (OCT SEMESTER)**

**Assignment 3 Submission**

**Class**: T03

**Submitted by**: <1605326F> Law Jun Wei

**Submitted by**: <1601634G> Kek Carmen

**Submitted by**: <1603304E> Gooi Chong Yen

**Date:** 12 / 12 / 2017

***I CERTIFY THAT THIS ASSIGNMENT IS MY OWN ORIGINAL WORK AND MATERIAL HAS NOT BEEN COPIED FROM ANY OTHER WORK (PUBLISHED OR OTHERWISE) WITHOUT ACKNOWLEDGEMENT IN THE TEXT.*** ***I AM FULLY AWARE OF THE PENALTY OF PLAGIARISM AND LATE PENALTY.***

**Name and Signature of student:** Law Jun Wei 

**Name and Signature of student:** Kek Carmen 

**Name and Signature of student:** Gooi Chong Yen 

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Temasek Polytechnic

School of Informatics and IT

**Diploma in Information Technology (IT)**

Software Test Specifications (STS)

**Project Particulars**

|  |  |
| --- | --- |
| **Tutor** | Mr Qi YuTao |
| **Class** | T03 |
| **Project Title** | Delonix Regia Hotel Management System |

**Project Team’s Particulars**

|  |  |
| --- | --- |
| **Matric Number** | **Student Name** |
| 1605326F | Law Jun Wei |
| 1601634G | Kek Carmen |
| 1603304E | Gooi Chong Yen |

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 28/11/2017 | 1.0 | Created Document | JunWei |
| 05/12/2017 | 1.1 | Update workload Distribution | ChongYen |
| 12/12/2017 | 1.2 | Vetted Document | Carmen |
|  |  |  |  |

# DISTRIBUTION OF WORKLOAD

*[Determine which members of the team will be responsible for which areas in the construction and testing process. Individual’s responsibilities should be clearly spelt out.]*

|  |  |
| --- | --- |
| **Construction & Testing** | **Members** |
| Check-in and out module | Law Jun Wei |
| Booking Module | Kek Carmen |
| Staff management module | Gooi Chong Yen |

# MODULE DEVELOPMENT AND UNIT TESTING

*[Describe the process of module development and unit testing. What have your team and individual developers done to ensure quality software development and testing? Are there any testing methodologies (either researched or self-developed) that you follow?]*

We have decided to use Personal Home Page(PHP) to code the web application to organize and Structured Query Language(SQL) to manage data efficiently.

For each of the modules that we created for Hotel Management System, we plan to use a standardized method of coding the buttons that does the CRUD functions.

## Booking Module (Carmen)

The purpose of this module is to allow the receptionist to add and edit the booking information in place of the customer to update the database.

The Booking Module allows the receptionist to create a new booking of room when a guest request for it. The attributes tracked are the booking ID, customer ID, room ID, check-in and check-out date, total price, remaining price and payment status.

This module will be accessed by clicking on the “Booking” button at the main menu (side bar), showing the various information that needs to be entered by the receptionist to proceed with the booking.

## Staff Management Module (Chong Yen)

The Staff Management Module will allow the user to access data from the staff table. All the relevant information will be available to the user such as employee id, name, staff type id, shift id, id card type, id card number, address, contact number and salary. The staff management module will allow the user to add or remove employees and edit employee data. It can also be used to change shift times for the employees.

It can be accessed by clicking on the staff management option from the main menu.

## Check-in and out Module (Jun Wei)

The Check-in and out Module will allow the user to check-in and check-out guests from the hotel. All the options to check-in as well as check-out guest will be in Room Management page. User with adding privilege can also add new rooms in the event of the hotel's expansion and delete rooms in the event there is any renovation to be done by the hotel. There will also be an option to enable room booking which will link the user to the booking page.

This module can be accessed via the main menu side bar by clicking on “room management page”.

# SYSTEM INTEGATION

*[Describe how system integration is done. How do you ensure that your software modules from different team members can be integrated during the integration phase? What strategies have you used?]*

We met up and did the software module together thus no need for software modules to be integrated.

# TEST LOG

*[States the test log for each of the scenario / function of the software e.g. the basic flow, alternate flow and exception flows]*

## <Scenario / Booking Hotel Room>

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S/No** | **Steps** | **Test Data** | **Expected Results** | **Actual Results** |
| 1 | Click on Reservation | -NIL- | The site will link to the reservation page. | The site will link to the reservation page. |
| 2 | Fill in the Blanks | -NIL- | The site will allow the user to fill in the blanks. | The site will allow the user to fill in the blanks. |
| 3 | Click on submit | **customer\_id**  **customer\_namecontact\_no**  **Email**  **id\_card\_type\_id**  **id\_card\_no**  **address** | The site will then show that the results have been submitted. | The site will then show that the results have been submitted. |

## <Scenario / Check-in >

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S/No** | **Steps** | **Test Data** | **Expected Results** | **Actual Results** | **Remarks** |
| 1 | Click on Room Management | -NIL- | The site will link to the room management page. | The site will link to the room management page. |  |
| 2 | Click on check-in. | -NIL- | The site will then have a pop-up to ask if there is any advance payment. | The site will then have a pop-up to ask if there is any advance payment |  |
| 3 | Enter the advance payment and click submit | **total\_price**  **remaining\_price** | The site will then show that the results have been submitted and save the booking details. | The site will then show that the results have been submitted and save the booking details. |  |

## <Scenario / Check-out >

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S/No** | **Steps** | **Test Data** | **Expected Results** | **Actual Results** | **Remarks** |
| 1 | Click on Room Management | -NIL- | The site will link to the room management page. | The site will link to the room management page. |  |
| 2 | Click on check-out. | -NIL- | The site will then have a pop-up to ask if there is any remaining payment. | The site will then have a pop-up to ask if there is any remaining payment |  |
| 3 | Enter the remaining payment and click submit | **total\_price**  **remaining\_price** | The site will then show that the payment has been made and release the room for the next booking. | The site will then show that the payment has been made and release the room for the next booking. |  |

## <Scenario / Adding new employees >

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S/No** | **Steps** | **Test Data** | **Expected Results** | **Actual Results** | **Remarks** |
| 1 | Click on staff management | -NIL- | The site will link to the add staff management page. | The site will link to the room management page. |  |
| 2 | Enter the new employee's details. | -NIL- | The site will allow the user to type in new employee details. | The site will then have a pop-up to ask if there is any advance payment |  |
| 3 | Click submit and the data will be added. | **emp\_id**  **emp\_name**  **staff\_type\_id**  **shift\_id**  **id\_card\_type**  **id\_card\_type**  **id\_card\_no**  **Address**  **contact\_no**  **Salary**  **joining\_date**  **updated\_at** | The site will then add the employee details into the employee database. | The site will then add the employee details into the employee database. |  |

 **PLAN**

|  |  |  |  |
| --- | --- | --- | --- |
| Name: Law Jun Wei | | Date: 12/12/2017 | |
| Assignment Requirements  -Produce a Hotel Management System for Delonix Regia Hotel  -Develop the actual program based on the specifications  -All of the above had to be completed in 2 weeks time | | | |
| **Ideas/Issues (Topic knowledge)** | | | |
| What I know  -Programming language that learn from previous modules  -What are the requirements that the company need for the hotel | What I don’t know  -PHP | | What I need to find out/work on  -How to code using PHP |
| **Action (Identify resources/information)** | | | |
| Get help from  -Google  -W3school  -GitHub  -Friends | | Resources I should use  -Lecturers  -Google | |
| **Time Management** | | | |
| What I need to do  -Create a checking in and out module and make sure that all the functions are able to work and do it within 2 weeks time | | By when must I complete  -Week 8 12/12/2017 5.30pm | |

** PERFORM**

|  |  |
| --- | --- |
| Name: Law Jun Wei | Date: 12/12/2017 |
| Strategies that I am using to | |
| 1. monitor progress/keep on task (is the task taking longer than expected?)   -Plan early  -Do Early | |
| 1. locate resource/get help (where & how)   -Use search engine such as google to find alternative help from website that teaches programming or gives tutorial like w3school, learn it from there before starting to code the program. | |
| 1. check understanding (understand everything I need to understand)   -Only uses code that you learn and understand from before applying it | |
| 1. motivate myself   -Friends working together  -Music | |
| Resources/Information I have gathered | |
| -Uses Google search engine to research on how to use PHP and how can SQL apply to it and then merge them together. | |

**MONITOR**

|  |  |
| --- | --- |
| Name: Law Jun Wei | Date: 12/12/2017 |
| **Evaluating Potential Information Sources** | |
| **Authority & Credibility**   * Who is/are the author(s)? * What makes the author an authority on this subjects? What are his/her credentials? * Is there any contact detail? * Is this page/article part of a larger site? Who is responsible for this site? * Is the site accredited or endorsed by a reputable organisation? * Is this page a peer-reviewed, public-reviewed or scholarly article? * Is the material taken from other sources fully credited? | |
| **Scope, Coverage & Relevance**   * Who is the intended audience (general/specialized readership, scholars, etc.)? * Are the content and level appropriate for the assignment? | |
| **Bias & Accuracy/Reliability**   * How is the information presented (fact, opinion, propaganda, etc.)? * If presented as a fact, is it accurate? Can you cross-reference somewhere else? * Is there a bias (commercial, technologies, cultural, etc.)? * Is the biasness clearly stated and appropriate for the assignment? | |
| **Currency/Timeliness**   * What is the resources’ date of publication, or date of posting to the site? * Does this date tell when the resource was created, or when it was last updated? * How recent is the information contained in the source? * Is some of the information out of date? Is it still appropriate for the assignment? | |
| **Quality**   * Is the information clearly written and well-organised? * Is the new research being done/reported or is the author viewing old research? * Does the author agree/disagree with the majority of other viewers/authors in the field? | |
| **Commercialism**   * Is the author selling something – a product/solution, an idea, a brand, etc.? * Does the resource/page have a corporate sponsor? * Do you have to enter personal identification/information in order to proceed? * Is this commercial solution/product appropriate for the assignment? | |

** REFLECT**

|  |  |
| --- | --- |
| Name: Law Jun Wei | Admission Number: 1605326F |
| Class: P01 / P02 / P03 | Date: 12/12/2017 |
| **Write a reflection on your learning** | |
| **Describe**  -We have plan to start this project early but we realize that we do have another 80% project on hand which we didn't really start, so we decide to spend more time on it. I will try to start it as long as I have time. I think that I can progress better and manage my time better for the next project. | |
| **Examine**  -Ask my friends | |
| **Articulated Learning**  -Better Time Management can be made  -Understanding different type of programming languages better  -Recap on SQL which we learn before  -Yes, definitely, get myself be better prepared with the project.  -I feel that when we are left with no choice, we will have to learn it ourselves, ultimately, its our own grades and marks. | |
| **Evaluation**  The Plan-Perform-Monitor-Reflect (PPMR) process has helped me to challenge myself towards achieving the desired standards I set for my assignment.   |  |  |  |  | | --- | --- | --- | --- | | * Strongly agree | √Agree | * Disagree | * Strongly disagree | | |

 **PLAN**

|  |  |  |  |
| --- | --- | --- | --- |
| Name: Kek Carmen | | Date: 11 Dec | |
| Assignment Requirements   * Completed in two weeks time * Develop the actual hotel management system for Delonix Regia based on specifications provided * Prepare STS to ensure quality in our program | | | |
| **Ideas/Issues (Topic knowledge)** | | | |
| What I know   * Any programming language can be used | What I don’t know   * PHP | | What I need to find out/work on   * How to code out the website |
| **Action (Identify resources/information)** | | | |
| Get help from   * Google * Past assignment | | Resources I should use   * Google | |
| **Time Management** | | | |
| What I need to do   * Create the booking module and ensure all the required function work in 2 weeks’ time | | By when must I complete   * 12 December 2017 5:30pm | |

** PERFORM**

|  |  |
| --- | --- |
| Name: Kek Carmen | Date: 11 Dec |
| Strategies that I am using to | |
| 1. monitor progress/keep on task (is the task taking longer than expected?)  * Plan early * Start early | |
| 1. locate resource/get help (where & how)  * google | |
| 1. check understanding (understand everything I need to understand)  * google to ensure that I am on the right track * ensure that features can be added in efficiently | |
| 1. motivate myself   nil | |
| Resources/Information I have gathered | |
| * google references to help me understand php and mySQL better (such as more features and things I might be unsure of) | |

**MONITOR**

|  |  |
| --- | --- |
| Name: Kek Carmen | Date: 11 December |
| **Evaluating Potential Information Sources** | |
| **Authority & Credibility**   * Who is/are the author(s)? * What makes the author an authority on this subjects? What are his/her credentials? * Is there any contact detail? * Is this page/article part of a larger site? Who is responsible for this site? * Is the site accredited or endorsed by a reputable organisation? * Is this page a peer-reviewed, public-reviewed or scholarly article? * Is the material taken from other sources fully credited? | |
| **Scope, Coverage & Relevance**   * Who is the intended audience (general/specialized readership, scholars, etc.)? * Are the content and level appropriate for the assignment? | |
| **Bias & Accuracy/Reliability**   * How is the information presented (fact, opinion, propaganda, etc.)? * If presented as a fact, is it accurate? Can you cross-reference somewhere else? * Is there a bias (commercial, technologies, cultural, etc.)? * Is the biasness clearly stated and appropriate for the assignment? | |
| **Currency/Timeliness**   * What is the resources’ date of publication, or date of posting to the site? * Does this date tell when the resource was created, or when it was last updated? * How recent is the information contained in the source? * Is some of the information out of date? Is it still appropriate for the assignment? | |
| **Quality**   * Is the information clearly written and well-organised? * Is the new research being done/reported or is the author viewing old research? * Does the author agree/disagree with the majority of other viewers/authors in the field? | |
| **Commercialism**   * Is the author selling something – a product/solution, an idea, a brand, etc.? * Does the resource/page have a corporate sponsor? * Do you have to enter personal identification/information in order to proceed? * Is this commercial solution/product appropriate for the assignment? | |

** REFLECT**

|  |  |
| --- | --- |
| Name: Kek Carmen | Admission Number: 1601634G |
| Class: P03 | Date: 11 December |
| **Write a reflection on your learning** | |
| **Describe**   * Write about how you plan to complete your tasks for the assignment * Describe how you monitor your own progress while doing the assignment * Do you think you have progressed well? Did you have better time management?   **We must first start deciding on the plan on doing up the program, such as the program language to be used as well as the database platform. This is to ensure that everyone is doing on the same platform and using the same programming language, so it will be easier to integrate all the modules** | |
| **Examine**   * Examine how you went about in doing the assignment and how did you close the gap in your learning.   **I googled my doubts.** | |
| **Articulated Learning**   * Write about some strategies or skills you have acquired while working through the assignment. * Given another assignment/project, might there be anything you would do differently from what you have done? * How would you rate yourself as a Self-Directed Learner?   I have learned to do things more efficiently, implementing things from what I have learnt in the past semester (mySQL) so that I understand various features and constraints.  7/10 as a SDL, but prefer if some help was provided for headstart | |
| **Evaluation**  The Plan-Perform-Monitor-Reflect (PPMR) process has helped me to challenge myself towards achieving the desired standards I set for my assignment.   |  |  |  |  | | --- | --- | --- | --- | | * Strongly agree | ✓Agree | * Disagree | * Strongly disagree | | |

**PLAN**

|  |  |  |  |
| --- | --- | --- | --- |
| Name: Chong Yen | | Date: 12/12/17 | |
| Assignment Requirement:  Create a web application for a hotel management system. | | | |
| **Ideas/Issues (Topic knowledge)** | | | |
| What I know  A bit of angular-js  A bit of android development | What I don’t know  PHP  HTML | | What I need to find out/work on  I need to work on my sql and other languages. |
| **Action (Identify resources/information)** | | | |
| Get help from  Friends  Online | | Resources I should use  W3Schools Stackoverflow | |
| **Time Management** | | | |
| What I need to do  STS  Web application  SDL | | By when must I complete  12/12/17 23**59** hrs | |

** PERFORM**

|  |  |
| --- | --- |
| Name: Chong Yen | Date |
| Strategies that I am using to | |
| 1. monitor progress/keep on task (is the task taking longer than expected?)   Calendar app | |
| 1. locate resource/get help (where & how)   Going to library and looking for information online. I can also ask for lecturers. | |
| 1. check understanding (understand everything I need to understand)   Asking my friends or lecturers for clarification | |
| 1. motivate myself   Take a break in between. | |
| Resources/Information I have gathered | |
| How to edit sql  How to edit sql database | |

**MONITOR**

|  |  |
| --- | --- |
| Name: Chong Yen | Date |
| **Evaluating Potential Information Sources** | |
| **Authority & Credibility**   * Who is/are the author(s)? * What makes the author an authority on this subjects? What are his/her credentials? * Is there any contact detail? * Is this page/article part of a larger site? Who is responsible for this site? * Is the site accredited or endorsed by a reputable organisation? * Is this page a peer-reviewed, public-reviewed or scholarly article? * Is the material taken from other sources fully credited? | |
| **Scope, Coverage & Relevance**   * Who is the intended audience (general/specialized readership, scholars, etc.)? * Are the content and level appropriate for the assignment? | |
| **Bias & Accuracy/Reliability**   * How is the information presented (fact, opinion, propaganda, etc.)? * If presented as a fact, is it accurate? Can you cross-reference somewhere else? * Is there a bias (commercial, technologies, cultural, etc.)? * Is the biasness clearly stated and appropriate for the assignment? | |
| **Currency/Timeliness**   * What is the resources’ date of publication, or date of posting to the site? * Does this date tell when the resource was created, or when it was last updated? * How recent is the information contained in the source? * Is some of the information out of date? Is it still appropriate for the assignment? | |
| **Quality**   * Is the information clearly written and well-organised? * Is the new research being done/reported or is the author viewing old research? * Does the author agree/disagree with the majority of other viewers/authors in the field? | |
| **Commercialism**   * Is the author selling something – a product/solution, an idea, a brand, etc.? * Does the resource/page have a corporate sponsor? * Do you have to enter personal identification/information in order to proceed? * Is this commercial solution/product appropriate for the assignment? | |

** REFLECT**

|  |  |
| --- | --- |
| Name: Chong Yen | Admission Number |
| Class: P01 / P02 / P03 | Date |
| **Write a reflection on your learning** | |
| **Describe**   * Write about how you plan to complete your tasks for the assignment * Describe how you monitor your own progress while doing the assignment * Do you think you have progressed well? Did you have better time management?   **I plan to do all the parts on different days.**  **I would check against my classmates on their progress and compare how much each of us have done.**  **I feel that we are rather behind as we had other projects to do as well so we would try to make it up.** | |
| **Examine**   * Examine how you went about in doing the assignment and how did you close the gap in your learning.   **I constantly researched online and would try to put in as much time as I could spare.** | |
| **Articulated Learning**   * Write about some strategies or skills you have acquired while working through the assignment. * Given another assignment/project, might there be anything you would do differently from what you have done? * How would you rate yourself as a Self-Directed Learner?   I learnt how to plan my time well and try to manage it better.  I would start earlier and procrastinate less. | |
| **Evaluation**  The Plan-Perform-Monitor-Reflect (PPMR) process has helped me to challenge myself towards achieving the desired standards I set for my assignment.   |  |  |  |  | | --- | --- | --- | --- | | * Strongly agree | * Agree | ✓Disagree | * Strongly disagree | | |