Curtin University – Department of Computing

Assignment Cover Sheet / Declaration of Originality

Complete this form if/as directed by your unit coordinator, lecturer or the assignment specification.

Last name:	Wijekoon	Student ID:	19735155
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Unit name:	Capstone Computing Project 1	Unit ID:	ISAD3000
Lecturer / unit coordinator:	Dr Hannes Herrmann	Tutor:	Ms Geethanjali Wimalarathne
Date of submission:	25/04/2019	Which assignment?	Sprint Report Two

I declare that:

- The above information is complete and accurate.
- The work I am submitting is *entirely my own*, except where clearly indicated otherwise and correctly referenced.
- I have taken (and will continue to take) all reasonable steps to ensure my work is *not accessible* to any other students who may gain unfair advantage from it.
- I have *not previously submitted* this work for any other unit, whether at Curtin University or elsewhere, or for prior attempts at this unit, except where clearly indicated otherwise.

I understand that:

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- Detection of plagiarism and collusion may be done manually or by using tools (such as Turnitin).

- If I plagiarise or collude, I risk failing the unit with a grade of ANN ("Result Annulled due to Academic Misconduct"), which will remain permanently on my academic record. I also risk termination from my course and other penalties.

- Even with correct referencing, my submission will only be marked according to what I have done myself, specifically for this assessment. I cannot re-use the work of others, or my own previously submitted work, in order to fulfil the assessment requirements.
- It is my responsibility to ensure that my submission is complete, correct and not corrupted.

Signature: *Poornami Wijekoon* Date of Signature: 25 th of April 2019

(By submitting this form, you indicate that you agree with all the above text.)

Property Management System

Sprint Report Two

Capstone Computing Project 1(Semester 1 2019 Sri Lanka Inst Info Tech)

Group No - SD07

Submitted by:

IT17071208 - 19735155 - (W.M.P.K.Wijekoon)

25th of April 2019

Table of Contents

Progress Report

Sprint Two	4th April 2019 – 18th April 2019

Tasks Completed

Task 1.6 , 1.7

Task 3.1 , 3.2

Task 7.2

Task 11.2

Tasks Planned

Task 2.1 – Designing usecase diagrams for system

Task 2.2 – Designing class diagrams for system

Task 2.3 – Designing high level diagrams for system

Task 3.4 – Learning development technologies (mobile + web)

Task 3.5 – Learning language development technologies

Difficulties

View the *Sprint Retrospective* for a more detailed reflection on the sprint

Tasks Breakdown

Task 1

Task 1.6

Estimated Time : 7 Hours

Actual Time : 5 Hours

Actual Time (This Sprint) : 5 Hours

Description

Making of the final SRS [Software Requirement Specification].

Implementation

Our final SRS [Software Requirement Specification] document is a continuation of our draft SRS document of our project 'Property Management System'. In our final SRS we included and modified our functions as we recognized that some of the functions will be diffcult to implement. Hence our finalized functions are User Management , Property Management , Bookmark and Save , Booking Management , Search and Preference Management and Review and Commenting.

In this final SRS I included descriptions on the functions I'm responsible for ; Booking Management , Search Management.In booking management I have included the procedure how the booking is done in our system.Also I included functional requirements and non functional requirements of the function.Basically this function manages front-end functionalities.It covers bookings , check-ins , check-outs , rates and etc…And it provides information of properties that can be reserved by the tenant.As a result tenants can easily decide which property is suitable for their preferences.In search management, it allows the tenant to search properties by the location , rental , no of rooms , facilities and etc…Therefore tenant doesn't need to go from top to end of a list to find properties and tenant can save the time.This is one of the main objectives of the function.

Finally I included a new function diagram to the appendix as we changed our functions.This was drawn to give a clear understanding about the functionalities of our system.

Figures

Final SRS is available in :
HTTPS://GITHUB.COM/POORNAMIW/CCP1/BLOB/MASTER/FINAL%20SRS%20-%20SD07.PDF

Task 1.7

Estimated Time : 9 Hours

Actual Time : 9 Hours

Actual Time (This Sprint) : 9 Hours

Description

Making of the final Task Allocation Document

Implementation

The aim of our final Task Allocation document was to allocate and control work in team fairely and properly.This document includes individual work plans as well as group work plans.Unlike our draft Task Allocation document this final document is devided into main tasks and these main tasks are sub devided into sub tasks.And each task is given an estimation time.And the tasks we have completed upto now have given the actual time it took to complete the tasks well.Hence we could get a clear understand about the task allocation timeline.

Figures

Tasks [1]			Chulanga Averil		Kasundi Maneesha		Poornami Wijekoon		Baratha Aberat	
Number		Description	Estimate	Actual	Estimate	Actual	Estimate	Actual	Estimate	Actual
Task 1		**Requirements Gathering & Documentation**								
	1.1	Preparing Resume & Cover letter	6	5	5	4	6	4	5	3
	1.2	Collect information about the project	6	5	6	4	5	4	4	3
	1.3	Research project related topics	7	6	6	4	4	4	5	4
	1.4	Prepare draft SRS	9	7	8	6	7	6	8	2
	1.5	Prepare draft TA	9	8	8	7	3	4	8	2
	1.6	Prepare final SRS	10	9	7	5	6	5	8	2
	1.7	Prepare final TA	12	10	10	11	9	9	8	2
Task 2		**Designing diagrams**								
	2.1	Design usecase diagram for system	7		6		6		5	
	2.2	Design class diagram for system	8		5		6		5	
	2.3	Design High Level diagram for system	8		6		5		5	
Task 3		**Learn tools and concepts**								
	3.1	Learn agile-scrum methodologies	8	7	4	3	3	4	2	2
	3.2	Learn about Github functionalities	9	9	5	4	3	5	4	4
	3.3	Learn about trello functionalities	7	6	4	3	4	3	2	1
	3.4	Learn development technologies (mobile+web)	9		7		7		8	
	3.5	Learn language development technologies	10		3		4		5	
Task 4		**Design main GUI's of property mangement system**								
	4.1	Study design techniques and design requirements of system	8				6			
	4.2	Design main theme of system			6					
	4.3	Design home GUI								
	4.4	Integrate GUI's into one system and connect each of them							10	
	4.5	Finalize and test all the functions of system	9		8		9		8	
Task 5		**Backend design and implement database**								
	5.1	Create ER digarm	6		6		6		6	
	5.2	Learn about mySQL functionalities	4		4		4		4	
	5.3	Create scripts in mySQL	3		3		3		3	
	5.4	Execute scripts and implement database	2		2		2		2	
Task 6		**Property Management of Property Management System**								
	6.1	Conducting a research and gather information about the property management system	14	12						
	6.2	Clarifying the functional and non functional requirements by meeting the client.	6	3						
	6.3	Drawing the necessary UML diagrams according to the function	12							
	6.4	Designing GUI according to the specified requirements	13							
	6.5	Selecting color code and icons for GUI	6							
	6.6	Implementing CRUD functions	13							
	6.7	Coding other necessary functions	10							
	6.8	Create and execute scripts in mySQL database	9							
	6.9	Testing and finalizing the function	8							

Final TA is available at : https://github.com/PoornamiW/CCP1/blob/master/SD07-TA.pdf

Task 3

Task 3.1

Estimated Time : 3 Hours

Actual Time : 4 Hours

Actual Time (This Sprint) : 4 Hours

Description

Learing about agile scrum methodologies.

Implementation

We dicided to study about agile scrum methodologies because we wanted to achieve higher customer satisfaction on our project.We are developing our project according to the agile scrum methodologies.In agile, system is developed incrementally where each iteration consists of two or more sprints.Main objective of these sprints is to build most significant features first.

Task 3.2

Estimated Time : 3 Hours

Actual Time : 5 Hours

Actual Time (This Sprint) : 5 Hours

Description

Learing about github functionalities.

Implementation

Git is an open source version control system.We are using github for our project , Property Management System.We are experiencing lots of advantages from github and it will be very useful to our project in the futute too.By studying and using github we could store our project work in a repository and all the team members could update the content of the project.Also team members could upload new work to the repository.Every team member could view these changes and could contribute , download them.Hence we have stored all our current work in a github repository.

Task 7

Task 7.2

Estimated Time ： 6 Hours

Actual Time ： 7 Hours

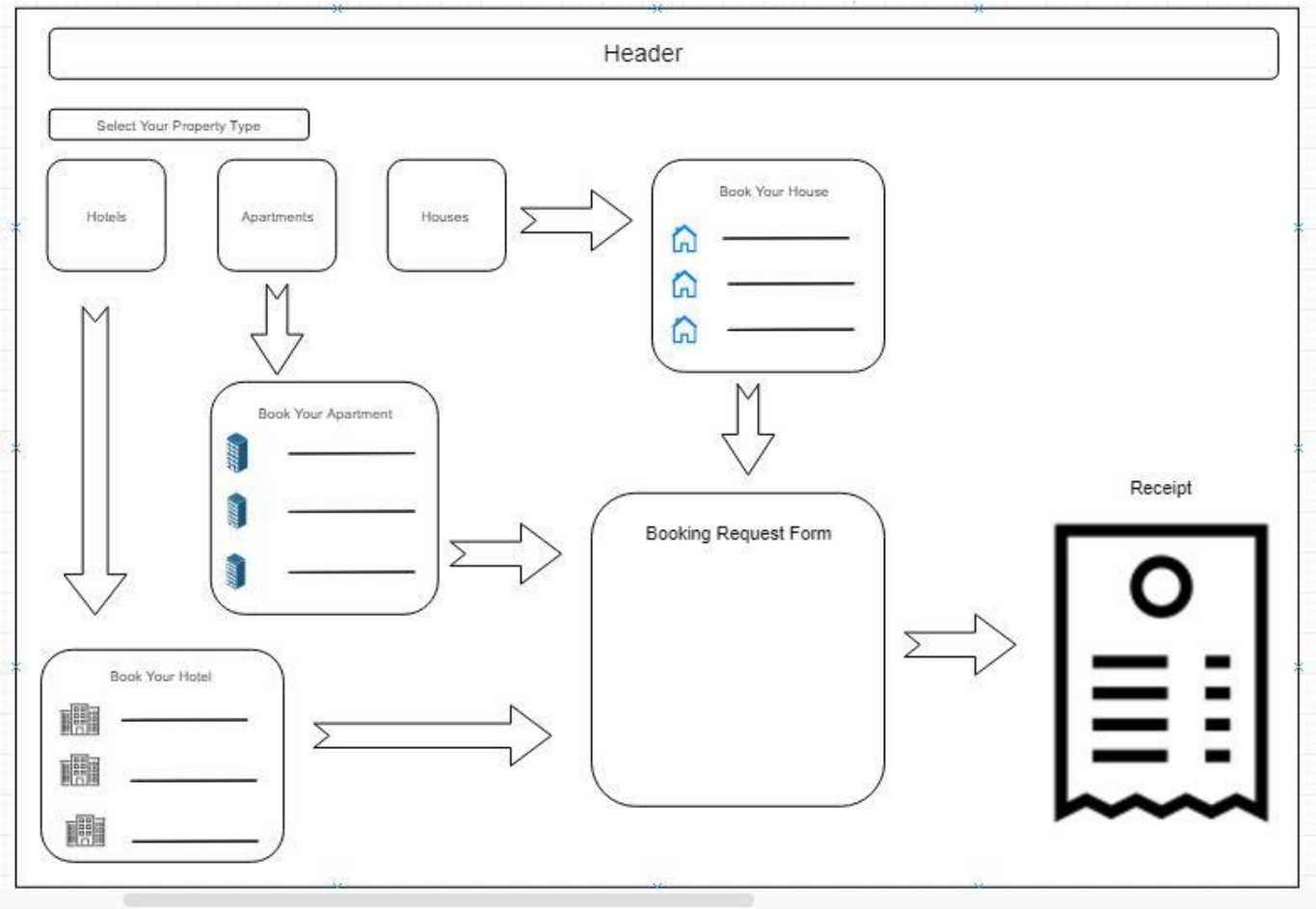
Actual Time (This Sprint) ： 7 Hours

Description

Designing wireframes for booking management GUIs.

Implementation

In order to arrange elements of the system I designed wireframes or skeletal frameworks of the function.In the wireframe below , user can go through the property lists.I have created separate ways to view different property types ; homes , apartments , hotels.After going through the lists user can perform the booking by clicking on the property they want to reserve.After clicking on the property booking request form will be appeared.And after proceeding the booking This can be changed since this task will be continued in the next sprint too.



Task 11

Task 11.2

Estimated Time ： 6 Hours

Actual Time ： 4 Hours

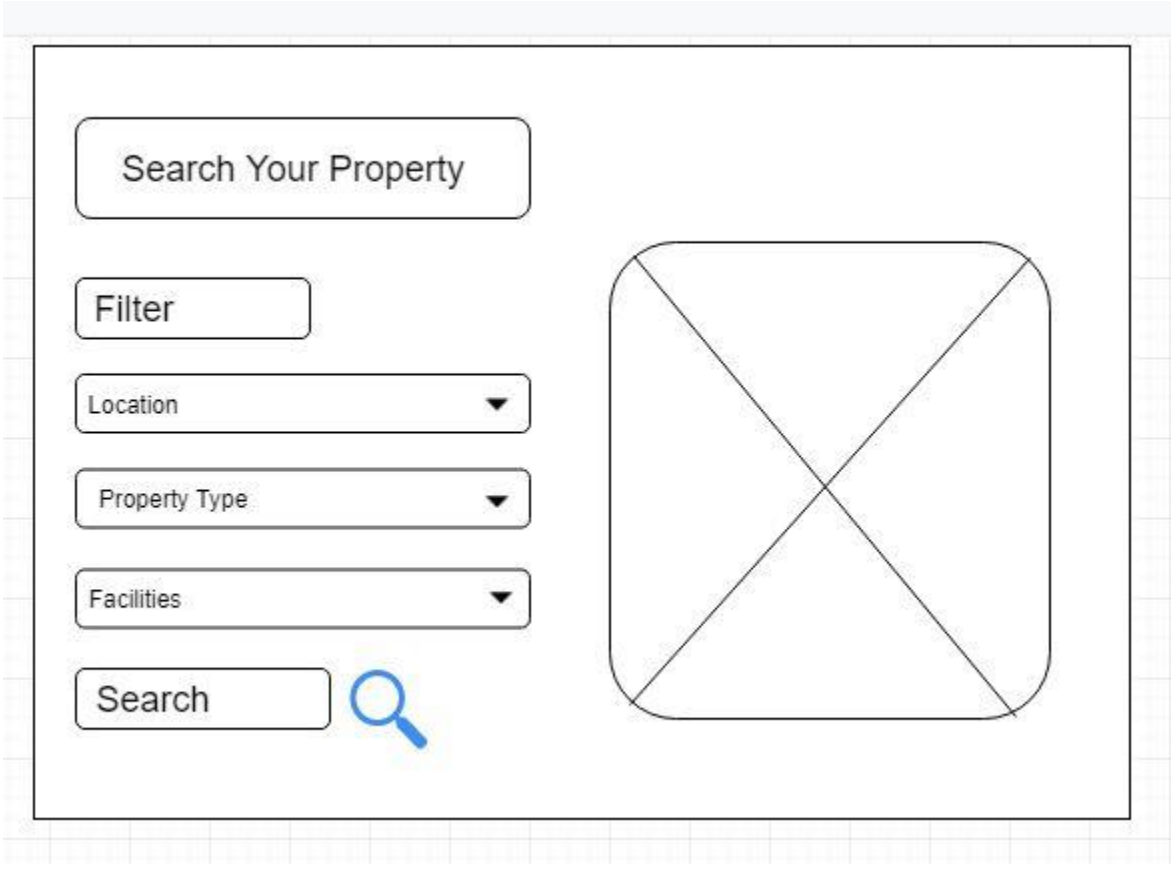
Actual Time (This Sprint) ： 4 Hours

Description

Designing wireframes for search management GUIs

Implementation

For the Search Management function as given below user can search properties by clicking on search button.When searching user can filter the search by location , property type , facilities and etc..After clicking on the search button a list of filtered properties will be displayed.This can be changed since this task will be continued in the next sprint too.



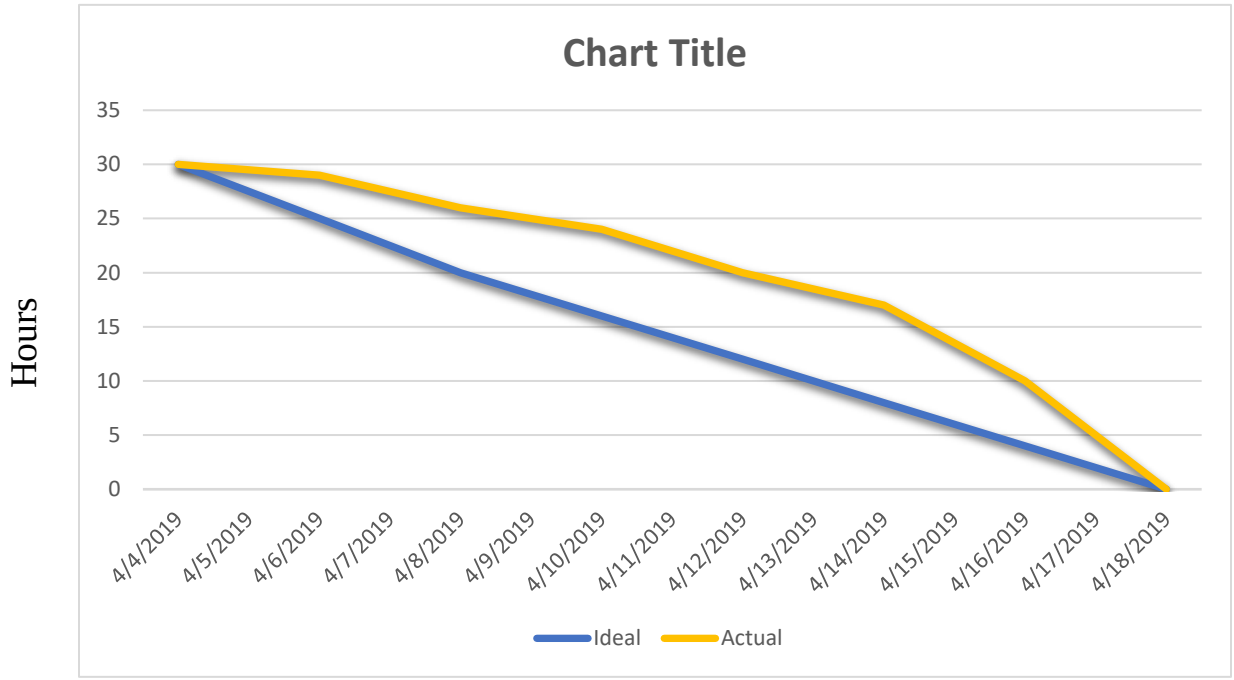
Development Methodology

Mintues

A document containing our team's chat (Whats app) can be found in https://github.com/PoornamiW/CCP1/blob/master/WhatsApp%20Chat%20-%203rd%20year%20project.pdf

Our meeting with the client for this sprint was held on 8th of April 2019.In this meeting we disscussed about the current state of our project with the client.The minutes for this meeting and more details are available in https://github.com/PoornamiW/CCP1/blob/master/meeting_08_04_19%20-%20minutes.pdf

Burndown Chart



Sprint Retrospective

Estimated Time : 7 Hours

Actual Time : 8 Hours

Actual Time (this sprint) : ~ 4.5 Hours

Description

Reflection on the sprint retrospective.

What went well during the sprint?

According to my thinking I would say that this sprint went well.I could complete almost every task I planned to do during this sprint.I was able to learn new technologies and methodologies by task 3.1 and 3.2.Also designing wireframes helped me to get an overall idea about functions.

What went wrong during the sprint?

There were some issues considering our functions.We found it difficult to implemet 360 view for the map management function.Earlier we thought that we could manage it.But when searching for related methodologies we understood that it was hard.Therefore we added new functions to the system instead of that function.

What could we do differently to improve?

We could have added more meaningful functions rather than many people working on the same function. Hence there won't be any conflicts when developing the functions.

Task Summary

Estimated Time ：33 Hours

Actual Time ：32 Hours

Actual Time (this sprint) ： ~3.5 Hours

Description

During this sprint we created our final SRS [Software requirement Specification] and final TA [Task Allocation].After creating the SRS we had a meeting with the client.In this meeting our final SRS got approved by the client.Also we spent some time in learning agile scrum methodologies and github functionalities.Also additionally we learnt about trello functionalities too.I designed wireframes for Booking management and Search management functions.I used draw.io software to implement these wireframes.Hence I could identify the elements of the functions and how they really work together.

Time Management

Sub Task	Estimated Time	Actual Time
Task 1.6	6	5
Task 1.7	9	9
Task 3.1	3	4
Task 3.2	3	5
Task 7.2	6	5
Task 11.2	6	4