PPA Membership Maintenance System

Sprint Report 1

Capstone Computing Project 2

Group SD07

Semester 2, 2018

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.

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Unit name:	Capstone Computing Project 2	Unit ID:	ISAD3001	
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Date of submission:	17/08/2018	Which assignment?	Sprint Report 1	

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Signature:	2.4	Date of signature:	16/08/2018

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1. Introduction

1.1 Group Introduction

All the members in our group have successfully completed the CCP1 in 2017. We enrolled for the CCP2 module in 2018 2nd semester, therefore this project is started in semester 2 of this year (2018). Because of that we have to done the main documentations and tasks of the project such as SRS, task allocation, initial requirement gathering etc. in semester 2. Each of the group members has to do a workload of 2 semesters within this semester, in order to complete the project successfully.

1.2 Project Introduction

PPA Membership Maintenance System is going to be used for membership management and some other important administration tasks such as event planning, donation collecting, accounts handling etc. of past pupil association of Sirimavo Bandaranaike Vidyalaya. Currently all these operations are manually performed by the committee. The main intention of the system is to automate most of those tasks and perform the semi-automated tasks easily and conveniently.

We use MEAN stack to develop this application, JIRA as the project management tool and bitbucket as the online repository. The application has main 4 parts as Membership Services, Accountings, Event Planning and Reporting. These four sections are interconnected with each other as per their functionalities.

2. Progress Update

Sprint 1: 03rd August – 17th August

2.1 Allocated Tasks for the Sprint 1

Task ID	Task	Task Status
Task 1	Requirements Analyzing	Completed
Task 2	Client Meeting 2	Completed
Task 3	Research for a Suitable Front End Framework	Completed
Task 4	Prepare the SRS	Completed
Task 5	Learn MEAN Stack	Completed
Task 6	Setting up the Individual Development Environment	Completed
Task 7	Preparation of Task Allocation Document	Completed
Task 8	Sprint Retrospective	Completed

2.2 Planned Tasks for the Sprint 2

Task ID	Task	Time Estimation	
Task 13.1	Admin Dashboard - Main GUI Draft Designing	4h	
Task 13.2	Admin Dashboard - Presentation Tier Logic	3h	
Task 21.1	News Section Screen Edit (Admin) – GUI	2h	
Task 21.2	Add/Edit News Items Presentation Tier Logic	1h	
Task 21.3	Add/Edit News Items database design	1h	
Task 21.4	Add/Edit News Items Middletier	2h	
Task 21.5	News Items Testing	2h	
Task 8.2	Sprint 2 Retrospective	0.5h	
Task 7.2	Planning the user stories for the sprint 3	1h	
Task 9	Design Meetings	1h	
Task 19.1	System Log panal - Draft GUI	3h	
Task 19.6	System Log panal - Presentation Tier Logic	1h	

2.3 Difficulties

• There were some issues occurred when installing the angular framework. Please check the task breakdown for Task 4 for more information.

3. Task Break Down

3.1 Task 1

Requirements Analyzing Phase 1

Task 1.1

Estimate Time: 2 Hours

Actual Time: 2 Hours

Actual Time (this sprint): 2 Hours

Description

Since our project is started in this semester (semester 2, 2018) there were so many planning stuff and initial requirement fine tunes. The project brief we got was just a few lines of description about the system. We did a research about Association Management Tools, Alumni Management Systems and Membership Management Tools to get a better understanding about the required system's features. Another expectation of this research was to get a better view about such systems before meeting the client to discuss further requirements of the given project. I researched about the existing Alumni Management systems and their features.

Bitbucket repository link to the research findings:

https://bitbucket.org/Computing Projects SLIIT/2018 sd07/commits/353bd9e184af54c0be8497 e901389493e70227fc

Task 1.2

Estimate Time: 3 Hours

Actual Time: 3 Hours

Actual Time (this sprint): 3 Hours

Description

During this task the team was gathered and discussed about the findings about similar systems. This task was carried out in two steps as a gathering before the 1st client meeting and an online team gathering after the 1st client meeting. We could identify a common set of features in all the systems we found. So we prepared a draft use case diagram based on those features. The main purpose of this was have a broader look into the system so we could identify any potential features that may need to the system. After discussing with the client, we prepared more detailed functionalities list including the client requirements. I prepared the Homepage features, Extra features and the Membership services of the list.

Bitbucket repository link for the use case diagram:

https://bitbucket.org/Computing Projects SLIIT/2018 sd07/commits/ac7c3c094498b71d00a1e5b34c491e087874fc78

Bitbucket repository link for the detailed functionality list

https://bitbucket.org/Computing Projects SLIIT/2018 sd07/commits/779028d4ef3513b2d704746093d 7ac92591f77ed

3.2 Task 2

Client Meeting 2

Task 2.2

Estimate Time: 1 Hours

Actual Time: 1 Hours

Actual Time (this sprint): 1 Hours

Description

We had two client meetings in this sprint. I couldn't attend to the first meeting, so I attend to the 2nd client meeting. The context of the client meeting 2 is in next sub task.

Task 2.9

(Commits: cdbfe7d)

Estimate Time: 1 Hours

Actual Time: 1 Hours

Actual Time (this sprint): 1 Hours

Description

Following is the link to the meeting minutes of the second client meeting.

https://bitbucket.org/Computing Projects SLIIT/2018 sd07/commits/cdbfe7dc584ce75cbfff277b 367892ecab5a2f4a#chg-

Documents/Client%20Meeting%20Minutes/Client%20Meeting%202/SD07_Client_Meeting_2.pdf

3.3 Task 3

Research for a Suitable Front End Framework

Task 3.1

(Commits: 0eac81b)

Estimate Time: 2 Hours

Actual Time: 2 Hours

Actual Time (this sprint): 2 Hours

Description

Following link is the repository link for the research document.

https://bitbucket.org/Computing_Projects_SLIIT/2018_sd07/commits/0eac81b2cd1493d90c7a16 23e8cb4fb89357cc5a#chg-

<u>Documents/Sprint%20Documents/Sprint%201/Researched%20Findings%20on%20Front%20End</u>%20Frameworks%20and%20Libraries.docx

3.4 Task 4

Prepare the SRS

Task 4.1

Estimate Time: 3 Hours

Actual Time: 2 Hours

Actual Time (this sprint): 2 Hours

Description

I have prepare the following sections of the SRS of this product which falls under the introduction section.

- Purpose
- Document Conventions

- Intended Audience and Reading Suggestions
- Project Scope

I have considered the information that was given to us by the client during the first client meeting when preparing this.

Task 4.2

Estimate Time: 1 Hour

Actual Time: 1 Hour

Actual Time (this sprint): 1 Hour

Description

This section is about Product Perspective and Features of the SRS. I documented this considering both client meeting minutes and the standup meeting discussions when preparing this section.

Task 4.3

Estimate Time: 1 Hour

Actual Time: 1 Hour

Actual Time (this sprint): 1 Hour

Description

I prepared a detailed description for the features, "Query for Social Connections" and "Request Service Letters".

Task 4.4

Estimate Time: 0.5 Hours

Actual Time: 0.5 Hours

Actual Time (this sprint): 0.5 Hours

Description

I prepared the glossary section of the SRS under this task. The work can be found in the SRS document of the below bitbucket link.

SRS bitbucket link:

https://bitbucket.org/Computing_Projects_SLIIT/2018_sd07/src/master/Documents/SRS/SRS_SD_07.pdf

3.5 Task 5

Learn MEAN Stack

Task 5.1

Estimate Time: 4 Hours

Actual Time: 3 Hours

Actual Time (this sprint): 3 Hours

Description

I did some tutorials of the following udemy course to get familiar with the Angualr.

Udemy course: https://www.udemy.com/angular-2-and-nodejs-the-practical-quide/

Proofs:

Add Listing Form Client Side Logic

```
add-listing-form.component.ts ×
n
                                                import { Component, OnInit, ViewChildDecorator, ViewChild } from '@angular/core';

■ OPEN EDITORS

                           B 🗗 🗊
                                               import { CribsService } from './../services/cribs.service';
import { NgForm } from '@angular/forms';
         sort-by.pipe.ts src\app\pipes
Ω
          g crib-listing.component.html s...
         Ÿ
                                                 selector: 'app-add-listing-form',
                                                 templateUrl: './add-listing-form.component.html', styleUrls: ['./add-listing-form.component.css']
      ▲ PROPERTY-WEB
      ▶ 🖿 e2e
       ▶ node_modules
                                                export class AddListingFormComponent implements OnInit {
ġ.
       🛮 🔚 арр
                                                 propertyTypes: Array<string>= ['House','Condo','Duplex'];
@ViewChild('newCribForm') newCribForm: NgForm;

∃ add-listing-form.compo..

               add-listing-form.compo..
                                                 constructor(public cribService: CribsService) { }
         🚨 add-listing-form.compo..
                                                  ngOnInit() {
               add-listing-form.compo..
           🗸 🗁 crib-card
              onCribSubmit(data): void{
               g crib-card.component.ht...
                                                    this.cribService.addCrib(data);
               crib-card.component.sp..
           ▶ ■ crib-listing
           pipes
              sort-by.pipe.spec.ts
               sort-by.pipe.ts
           services
             app.component.css
             ■ app.component.html
```

Add Listing Form Presentation Tier Code

```
crib-listing.component.html
                                                                                     crib-listing.component.ts

■ add-listing-form.component.html ×
△ OPEN EDITORS
   sort-by.pipe.ts src\app\pipes
                                             <h4>Add a Listing</h4>
    g crib-listing.component.html s...
   crib-listing.component.ts src\...
      add-listing-form.component.h...

▲ PROPERTY-WEB

 ▶ ■ e2e
                                              <form #newCribForm="ngForm" (ngSubmit)="onCribSubmit(newCribForm.value)">
                                               <div class="form-group col-sm-4">
<label for="address" class="">Address</label>
 ▶ node_modules
   ⊿ 🗁 a
                                                   type="text"
     class="form-control"
     add-listing-form.compo..
         add-listing-form.compo..
                                                    name="address"
                                                    ngModel
         add-listing-form.compo..
                                                    required>
     <div class="form-group col-sm-4">
    <label for="price" class="">Price</label>
        ∃ crib-card.component.css
                                                    type="number"
         Crib-card.component.sp..
         😝 crib-card.component.ts
                                                    placeholder="Price"
     ▶ ■ crib-listing
     pipes
                                                    ngModel
         sort-by.pipe.spec.ts
                                                    required>
         sort-by.pipe.ts
                                                <div class="form-group col-sm-4">
                                                  <label for="property-type" class="">Property Type</label>
       ∃ app.component.css
       app.component.html
```

Property Listings Arranging Component

```
EXPLORER.
                                               import { Component, OnInit } from '@angular/core';
▲ OPEN EDITORS
                                               import { Http } from '@angular/http';
import { CribsService } from './../services/cribs.service';
import { UtilService } from './../services/util.service';
    sort-by.pipe.ts src\app\pipes
    g crib-listing.component.html s...
    Crib-listing.component.spec.ts ...
                                               @Component({
                                                 selector: 'app-crib-listing',
templateUrl: './crib-listing.component.html',
styleUrls: ['./crib-listing.component.css']

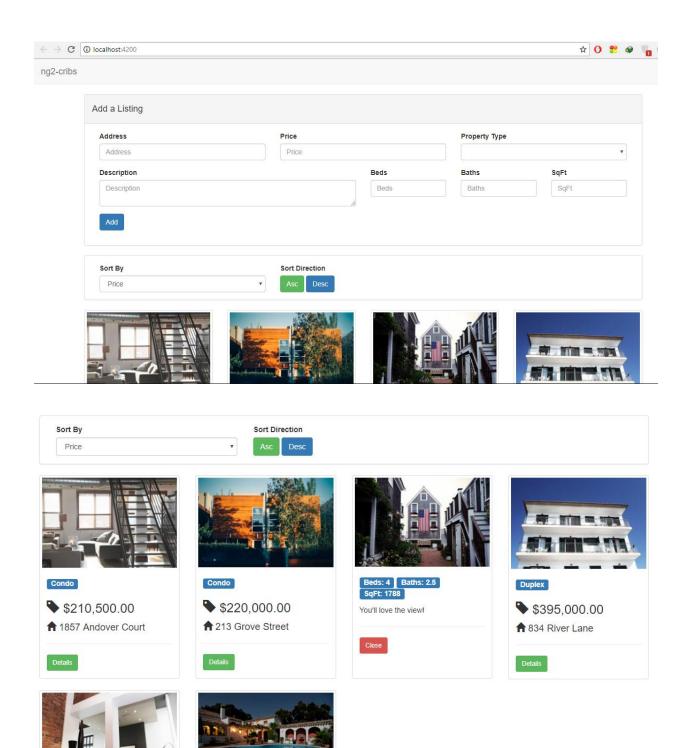
▲ PROPERTY-WEB

 ▶ ■ e2e
 ▶ 🐚 node_modules

▲ app
  add-listing-form

         add-listing-form.compo..
                                                 sortDirection: string = 'asc';
          🚨 add-listing-form.compo..
                                                  sortFields: Array<string> = [
                                                   'address',
'area',
'bathrooms',
      ∃ crib-card.component.css
          g crib-card.component.ht...
           Crib-card.component.sp..
                                                   'type'
          crib-card.component.ts
          ♂ crib-listing.component....
          g crib-listing.component....
          crib-listing.component....
                                                    private cribService: CribsService,
      🗸 🔚 pipes
         sort-by.pipe.spec.ts
                                                  ngOnInit() {
OUTLINE
```

Application



3.6 Task 6

Setting Up the Development Environment

Task 6.1

Estimate Time: 1 Hour

Actual Time: 1 Hour

Actual Time (this sprint): 1 Hour

In this task I setup the local development environment for the project development. Under that, I installed Node, Node Package Manager, Angular CLI, TortoiseGIT.

The following is the error I faced when using Angular. So I uninstall it and reinstall it. Then the issue was solved.

```
Angular CLI: 6.0.0
Node: 10.0.0
OS: linux x64
Angular:
...

Package Version

Gangular-devkit/architect <error>
Gangular-devkit/core <error>
Gangular-devkit/schematics 0.6.0
Gschematics/angular 0.6.0
Gschematics/update <error>
rxjs 6.1.0
```

3.7 Task 7

Planning the user stories for the sprint 2

Task 7.1

Estimate Time: 1 Hour

Actual Time: 1 Hour

Actual Time (this sprint): 1 Hour

Description

We held a standup meeting to plan the user stories for the sprint 2. The standup meeting information can be found in the following document.

Bitbucket Link:

https://bitbucket.org/Computing Projects SLIIT/2018 sd07/src/master/Documents/Standup%20 Meeting%20Minutes/Sprint%201/Standup%20Meeting%20-%20Sprint%201.docx

3.8 Task 8

Sprint 1 sprint retrospective

Task 8.1

Estimate Time: 0.5 Hours

Actual Time: 0.5 Hours

Actual Time (this sprint): 0.5 Hours

Please refer the following Sprint Retrospective section for more details.

3.9 Task 24

Preparation of Task Allocation Document

Task 24.1

Estimate Time: 3 Hour

Actual Time: 3 Hour

Actual Time (this sprint): 3 Hour

Description

We discussed and planned the how the functionalities should break into task to prepare the task allocation document.

Contribution for Task Breakdown:

https://bitbucket.org/Computing_Projects_SLIIT/2018_sd07/src/master/Documents/Sprint%20Documents/Sprint%201/Tasks%20Breakdown.docx

Task 24.2

Estimate Time: 5 Hour

Actual Time: 5 Hour

Actual Time (this sprint): 5 Hour

Description

I prepared the further task breakdown for allocated task functions in the previous meeting and add them into the final task allocation document.

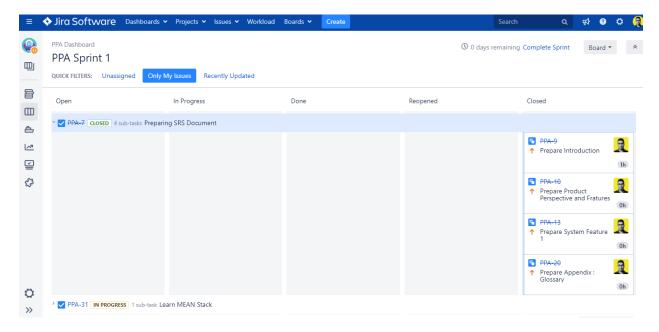
Task Allocation Document:

https://bitbucket.org/Computing Projects SLIIT/2018 sd07/src/master/Documents/Sprint%20Documents/Sprint%20Allocation.xlsx

4. Development Methodology

4.1 Minutes

We uses Jira as the project management tool for our project. At the one of our group members setup the Jira in Amazon cloud. There after we prepared a basic backlog for the sprint 1 tasks and started a new sprint for this sprint by adding those tasks. We set estimated times and assigned the tasks to relevant members. Following is a screen shot of the sprint board which shows some of the tasks that were allocated for me.



We were able to have 2 client meetings within this semester. Client meeting minutes can be found from the following link.

Bitbucket Link for Client Meetings:

Meeting 1:

https://bitbucket.org/Computing Projects SLIIT/2018 sd07/src/master/Documents/Client%20Meeting%20Minutes/Client%20Meeting%201/SD07 Client Meeting 1.pdf

Meeting 2:

https://bitbucket.org/Computing_Projects_SLIIT/2018_sd07/src/master/Documents/Client%20Meeting%20Minutes/Client%20Meeting%202/SD07_Client_Meeting_2.pdf

We had 10 standup meetings within this sprint and the minutes of those meetings can be found from the following link.

Standup Meeting Minutes:

https://bitbucket.org/Computing Projects SLIIT/2018 sd07/src/master/Documents/Standup%20 Meeting%20Minutes/Sprint%201/Standup%20Meeting%20-%20Sprint%201.docx

4.2 Burndown Chart



4.3 Sprint Retrospective (Task 8.1)

Note: This is a continuing task for each sprint.

Estimate Time: 0.5 Hours

Actual Time: 0.5 Hours

Actual Time (this sprint): 0.5 Hours

Description

This sprint was tightly packed with many tasks since we have to properly understand project scope, prepare SRS, Task Allocation Document etc. which considered as semester 1 tasks. We had to do all that within this sprint because we started our project on semester 2. So we had 2 client meetings to clearly understand the client's requirements. Most of our standup meetings was held to discuss the proposed system functionalities and the way we should implement them. During the first week we roughly finalize the basic functionalities and prepared the SRS. During the second week of this sprint we had another client meeting (client meeting 2) and properly finalized all the system functionalities in order to prepare the task allocation document. We had to have longer discussion meetings to breakdown the functionalities into tasks and sub tasks. After the hours of discussions finally we prepared a draft document which represent the main functionalities with basic task breakdown and assigned the sections for each member of the team to further breakdown.

Basic Task Breakdown:

https://bitbucket.org/Computing Projects SLIIT/2018 sd07/src/master/Documents/Sprint%20Documents/Sprint%201/Tasks%20Breakdown.docx

Then we created a google sheet so all of the members can work concurrently in there to prepare the TA. That went well and we finished the TA document on the last day of this sprint.

On the last day of the sprint we planned the tasks for the sprint 2 and created the sprint 2 sprint board by adding them into the board. The most of the tasks in this sprint were planning based and documentation based tasks. But the most of the sprint 2 tasks are development based tasks.

4.4 Time Management

Task ID	Task	Task Status	Estimated Times	Actual Times
Task 1	Requirements Analyzing	Completed	5h	5h
Task 2	Client Meeting 2	Completed	2h	2h
Task 3	Research for a Suitable Front End Framework	Completed	2h	2h
Task 4	Prepare the Draft SRS	Completed	5.5	4.5h
Task 5	Learn MEAN Stack	In-Progress	4h	3h
Task 6	Setting up the Individual Development Environment	Completed	1h	1h
Task 24	Preparation of Task Allocation Document	Completed	8h	8h
Task 7	Sprint 2 Planning	Completed	1h	1h
Task 8	Sprint Retrospective	Completed	0.5h	0.5h
Total Time			29h	27h