Team Big Data

U-tification Project Plan

Date: 10/02/22

Team Leader: Joseph Armas

Team Members: Joshua Gherman

Rhoy Oviedo

Frank Curry

Ghabrille Ampo

David DeGirolamo

Git Repository: https://github.com/JosephArmas/cecs-491A-Team-Big-Data

Version History

Current Version: Version 1

Table of Contents

Page:

First Semester Schedule

Sprint #	Dates	Sprint Activity	Can't Change Dates
1	9/26/22 - 10/5/22	BRD, Project Plan, HL Design	M1 DUE 10/5/22
2	10/6/22 - 10/14/22	LL Design and Network Diagram	
3	10/17/22 - 10/21/22	Rest Sprint, Research	
4	10/22/22 - 11/1/22	Registration	
5	11/2/22 - 11/9/22	Logging	M2 DUE 11/9/22
6	11/10/22 - 11/18/22	Authentication and Account Recovery	
7	11/21/22 - 11/27/22	Rest Sprint, Research	Fall Break
8	11/28/22 - 12/7/22	Authorization	
9	12/8/22 - 12/12/22	BOM	M3 DUE 12/12/22

Team Work Capacity

This is a rough estimate of time allocation for Team Big Data working on U-tification
Total number of team members: 6

Member	Ghabe	David	Rhoy	Joseph	Josh	Frank
Hours(Per Week)	12	12	12	12	12	12

Total Team Capacity: 72 hours

Sprint Activity Breakdowns

BRD(Business Requirements Document)
Estimated Time:
> 6 Hours First Draft
> 6 Hours Second Draft Revisions
> 2 Days Waiting For Feedback
> 4 Days to Finish

Assigned to:
> ➢ Joshua Gherman
> ➢ Frank Curry

Duration:
> 1 Sprint Cycle

Activity:
> ➢ Determine the functional and non-functional requirements of each feature for U-tification

Project Plan
> Based on BRD
> Pre-Requirement: BRD First Draft

Estimated Time:
> 1 Day Waiting for BRD First Draft
> 6 Hours First Draft
> 6 Hours Second Draft Revisions
> 2 Days Waiting For Feedback
> 5 Days to Finish

Assigned to:
> ➢ Rhoy Oviedo
> ➢ David DeGirolamo

Duration:
> 1 Sprint Cycle

Activity:
> ➢ Create a Project Plan estimating the time it would take to complete each feature based on the requirements specified in the BRD
> ➢ Estimate the team's work capacity to determine how much work should be completed in a sprint and how many sprints until project completion.

HL Design(High-Level Design)

Based on BRD
Implemented through Project Plan
Pre-Requirements: BRD First Draft

Estimated Time:

1 Day Waiting for BRD First Draft
6 Hours First Draft
6 Hours Second Draft Revisions
2 Days Waiting for Feedback
5 Days to Finish

Assigned to:

➢ Joseph Armas
➢ Ghabrille Ampo

Duration:

1 week sprint

Activity:

➢ Create a high level design model documenting team design choices and the flow for each user story for a Single-Page application using the microservices architecture

LL Design(Low-Level Design)

Estimated Time:

6 Hours First Draft
6 Hours Second Draft Revisions
2 Days Waiting for Feedback
4 Days to Finish

Assigned to:

➢ To be Assigned (3 Members)

Duration:

1 week sprint

Activity:

➢ Create a low level design model documenting how each microservice will be built

Network Diagram

Estimated Time:

6 Hours First Draft
6 Hours Second Draft Revisions
2 Days Waiting for Feedback
4 Days to Finish

Assigned to:

➢ To be Assigned (3 Members)

Duration:
> 1 week sprint

Activity:
- ➢ Create a network diagram documenting how many microservices will be needed for all the features.

Registration

Tasks:
> Build Basic Web Page
> Add Create Account Button
> Build Database for Accounts
> Create Method to add Accounts to Database
> Link Add Accounts to Web Page
> Check User Input
> Error Handling
> Testing

Estimated Time:
> 80 Hours

Assigned To:
- ➢ Whole Team

Duration:
> 1.5 week sprint

Logging

Tasks:
> Build Database to store logging messages
> Create Method to add messages to Database
> Create Method to Archive Database
> Clear Database After Archive

Estimated Time:
> 60 Hours

Assigned To:
- ➢ Whole Team

Duration:
> 1 week sprint

Authentication

Tasks:
> Add Login Button to Web Page
> Get Username and Password from User

Check if Username and Password is in User Database
Log User In/Show Unique Dashboard
Add Logout Button

Estimated Time:
50 Hours

Assigned To:
➢ 4 Team Members

Duration:
1 week sprint

Account Recovery

Tasks:
Add Forgot Password Button
Add Forgot Username Button
Search User Database for Lost Account
Change Password in User Database

Estimated Time:
20 Hours

Assigned To:
➢ 2 Team Members

Duration:
1 week sprint

Authorization

Tasks:
Create Admin Role
Create Reputable Role
Create Service Role
Create User Role
Method to give a user a role
Method to take away a role

Estimated Time:
70 Hours

Assigned To:
➢ Whole Team

Duration:
1.5 week sprint

BOM(Software Bill of Materials)

Estimated Time:
4 hours First Draft

2 days Waiting for Feedback
4 hours Second Draft Revisions
4 days to Finish
Assigned To:
  ➢ Whole Team
Duration:
  1 week sprint

Second Semester Schedule

Sprint #	Dates	Activity	Can't Change Dates
1	1/23/23 - 1/30/23	Litter Map	First Day of School 1/19
2	1/31/23 - 2/9/23	Pinning	
3	2/10/23 - 2/20/23	Pinning	
4	2/21/23 - 2/27/23	Upload Picture	
5	2/28/23 - 3/5/23	Rest Sprint, Research	
6	3/6/23 - 3/12/23	Reputation	M1 Due 3/6/23
7	3/14/23 - 3/19/23	Reputation	
8	3/20/23 - 3/26/23	Create Event	
9	3/27/23 - 4/2/23	Rest Sprint, Research	Spring Intersession 3/27 - 3/31
10	4/3/23 - 4/10/23	Event Joining	M2 Due 4/3/23
11	4/11/23 - 4/17/23	Alerts	
12	4/18/23 - 4/24/23	Service Requests	
13	4/25/23 - 5/1/23	Service Requests	
14	5/2/23 - 5/8/23	Extra Time	M3 Due 5/8/23

Milestone 1: Litter Map, Pinning, Upload Picture
Milestone 2: Reputation, Create Events
Milestone 3: Join Events, Alerts, Service Requests

Sprint Activity Breakdowns

Litter Map

Tasks:

Add a Map based on Google API

Retrieve Address from User

Estimated Time:

30 Hours

Assigned To:

➢ To Be Determined

Duration:

1 week sprint

Pinning

Tasks:

Create Multiple Types of Pins

Create Database to Store Pin Locations

Load Local Pins from Database into Map

Color Code Pins and allow Filter by Type

Show Popup of which User Reported the Pin

Estimated Time:

120 Hours

Assigned To:

➢ Whole Team

Duration:

2, 1 week sprints

Upload Picture

Tasks:

Upload .JPEG and .PNG pictures

Create Database to store pictures

Display Pin Pictures with their Popups

Estimated Time:

60 Hours

Assigned To:

➢ Whole Team

Duration:

1 week sprint

Reputation

Tasks:

Add Star Rating to Users

Allow Users who Clean up a Pin to Review It

Give Rating Points to both Cleaner and Reporter

Create Requirement for Reputable Role based on User Reputation Score

Display User Review Score on Pins they Report

Estimated Time:

120 Hours

Assigned To:

➢ Whole Team

Duration:

2, 1 week sprints

Event Creation

Tasks:

Only Allow Reputable Users to Create Events

Store Event Details like Time, Location, and Leader

Allow Event Leader to Edit the Details

Display Event Details as a Pin Popup

Estimated Time:

50 Hours

Assigned To:

➢ Whole Team

Event Joining

Tasks:

Allow Users to Join Events

Show Joined Event Details in User Dashboard

Allow User to Un-join or Leaver Events

Estimated Time:

40 Hours

Assigned To:

➢ To Be Determined

Duration:

1 week sprint

Alerts

Tasks:

Allows User to Enable or Disable Alerts

Alert when Nearby Pins are Dropped

Alert when Nearby Events are Scheduled

Display a List of Recent Alerts to User

Allow User to change Alert Permission for each Pin Type

Estimated Time:

40 Hours

Assigned To:

➢ To Be Determined

Duration:

1 week sprint

Service Requests

Tasks:

       Create Database to Store List of Services and Information

       Allow User to View the List of Services

       Allow Service Role to add their Service to the List

       Allow Service Role to remove their Service

       Allow User to Request a Service

       Allow User to cancel their Request

       Display to Service Role their List of Requests

Estimated Time:

       120 Hours

Assigned To:

➢ Whole Group

Duration:

       2, 1 week sprints

Glossary

M1: The first Milestone set by the client; BRD, Project Plan, and HL Design expected to be finished in Milestone 1.

M2: The Second Milestone set by the client; LL Design, Network Diagram, Registration, and Logging expected to be finished in Milestone 2.

M3: The Third Milestone set by the client; Authentication, Account Recovery, Authorization, and BOM expected to be finished in Milestone 3.

BRD: Business Requirements Documents; The Development Team's understanding of the clients requirements for the product.

HL Design: High Level Design; An overview of the product including its architecture and design decisions

LL Design: Low Level Design; An in depth look into how the product will be implemented

BOM: Software Bill of Materials; A list of every third party programs and their versions that were used in the product