PROJECT PLAN

Version History

Date	Version Number	Changes Made
11/23/2023	1	Initial Project Plan submission.
03/09/2024	2	Adjusted dates and effort points. React DAR report was removed from project plan due to technology becoming irrelevant, this is reflected by not having a Response Stage Work Item.
03/11/2024	3	Final edits with client

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Project Summary

Project Start date: **November 22**

Second Semester Work Start date: **January 8th**

Product Deployment: **May 8th**

Number of Milestones: **5**
- Semester 1 Milestone 1
- Semester 1 Milestone 2
- Semester 2 Milestone 1
- Semester 2 Milestone 2
- Semester 2 Milestone 3

Number of Sprints: 16

Total Project Effort Points: 655.5

Critical Path:
- The following features depends on LLI Management
    - Recommendation Engine
    - Lifelog Calendar
    - Life Tree
    - Interactive Geospatial Map
    - Location Recommendor
    - Lifelog Reminders
    - Media Momentos
    - Personal Note
- The following features depends on Personal Note
    - Lifelog Calendar
    - Life Tree
- The following features depend on User Form
    - Recommendation Engine
- All application specific features depends on the core components features

Product Milestones

Semester 1 Milestone 1

Internal Due Date: November 7th
External Due Date: November 8th
Total Effort Points: 74.5

- Milestone 1
    - Data Access Library (Product Owner: Phong, Effort points 20)
    - Logging Library (Product Owner: Jack, Effort points 25)
    - High Level Design Document (Product Owner: Devin, Effort points 22)
    - Project Plan Document (Product Owner: Jack, Effort points 7.5)

Semester 1 Milestone 2

Internal Due Date: December 10th
External Due Date: December 11th
Total Effort Points: 60

- Milestone 2
    - Security Library (Product Owner: Yoshiki, Effort points: 20)
    - User Management Library (Product Owner: Phong, Effort points: 30)
    - Network Diagram (Product Owner: Zarif, Effort points: 10)

Semester 2 Team Milestone 1

Internal Due Date: March 5th
External Due Date: March 6th
Total Effort Points:131

- DAR Report Maps API Decision Stage(Product Owner: Devin, Effort Points: 10)
- DAR Report Maps API Analysis Stage(Product Owner: Yoshiki, Effort Points: 10)
- DAR Report React Decision Stage(Product Owner: Jack, Effort Points: 10)
- DAR Report React Analysis Stage(Product Owner: Zarif, Effort Points: 10)

- LLI management (Product Owner: Phong, Effort points: 10)
    - LLI 1(Assigned: Phong, Effort points: 10)
- LLI management (Product Owner: Phong, Effort points: 14)
    - LLI 2(Assigned: Phong, Effort points: 14)
- UM Library Lifelog User Back End (Product Owner: Yoshiki, Effort points: 14)
    - User Management Library Back End Lifelog User Test (4 hours, Assigned to: Yoshiki)
    - User Management Library Back End Lifelog User LLD (4 hours, Assigned to: Yoshiki)
    - User Management Library Back End Lifelog User Implementation (10 hours, Assigned to: Jack)
- Registration (Product Owner: Zarif, Effort points: 16)
- Motivational Quote MQ 1 (Product Owner: Devin, Effort points: 25)
- UML FE Sign in Page(Assigned: Yoshiki, Effort Points: 1)
- UML FE Sign UpPage(Assigned: Phong, Effort Points: 1)
- LLI management (Product Owner: Phong, Effort points: 10)
    - LLI 3 (Assigned: Phong, Effort points: 5)
    - LLI 4 (Assigned: Phong, Effort points: 5)

Semester 2 Team Milestone 2

Internal Due Date: April 21st
External Due Date: April 22nd
Total Effort Points: 294

- Recommendation Engine (Product Owner: Jack, Effort points: 32)
    - RE1 (Assigned: Jack, Effort points: 25)
    - RE2 (Assigned: Jack, Effort points: 5)
    - Gold Plating(Assigned: Jack, Effort points: 2)
- Authentication(Product Owner:Yoshiki, Effort Points: 5)
    - A1(Assigned: Yoshiki, Effort points: 3)
    - A2(Assigned: Yoshiki, Effort points: 2)
- Logout(Product Owner:Yoshiki, Effort Points: 2)
    - L1(Assigned: Yoshiki, Effort points: 2)
- LLI management (Product Owner: Phong, Effort points: 10)
    - LLI5 (Assigned: Phong, Effort points: 5)
    - LLI6 (Assigned: Phong, Effort points: 5)
- LifeLog Calendar (Product Owner: Zarif, Effort points: 40)
    - LC1 (Assigned: Zarif, Effort points: 15)
    - LC2 (Assigned: Zarif, Effort points:10)
    - LC3 (Assigned: Zarif, Effort points:5)
    - LC4 (Assigned: Zarif, Effort points: 5)(Dependent)
    - LC5 (Assigned: Zarif, Effort points: 5)(Dependent)

- Personal Note (Product Owner: Yoshiki, Effort points: 27)
    - PN1 (Assigned: Yoshiki, Effort points: 10)
    - PN2 (Assigned: Yoshiki, Effort points: 5)
    - PN3 (Assigned: Yoshiki, Effort points: 5)
    - PN4 (Assigned: Yoshiki, Effort points: 5)
    - Gold Plating(Assigned: Yoshiki, Effort points: 2)
- User Form (Product Owner: Phong, Effort points: 12)
    - UF1 (Assigned: Phong, Effort points: 5)
    - UF2 (Assigned: Phong, Effort points: 5)
    - Gold Plating (Assigned: Phong, Effort points: 2)
- Location Recommendation (Assigned: Devin, Effort points: 34)
    - LoR1 (Assigned: Devin, Effort points: 15)
    - LoR2 (Assigned: Devin, Effort points: 10)
    - LoR3 (Assigned: Devin, Effort points: 5)
    - LoR4 (Assigned: Devin, Effort points: 2)
    - Gold Plating(Assigned: Devin, Effort points: 2)
- Usage analysis dashboard (Product Owner: Phong, Effort points: 10)
    - View Graphs (Assigned: Phong, Effort points: 10)
- Account Recovery(Product Owner: Phong, Effort Points: 5)
- Media Mementos (Product Owner: Jack, Effort points: 25)
    - MM1 (Assigned: Jack, Effort points: 15)
    - MM2 (Assigned: Jack, Effort points: 5)
    - MM3 (Assigned: Jack, Effort points: 5)
- Life tree (Product Owner: Zarif, Effort points: 20)
    - LT1 (Assigned: Zarif, Effort points: 10)
    - LT2 (Assigned: Zarif, Effort points: 10)
- Interactive Geospatial Map (Product Owner: Yoshiki, Effort points: 32)
    - IGM1 (Assigned: Yoshiki, Effort points: 15)
    - IGM2 (Assigned: Yoshiki, Effort points: 3)
    - IGM3 (Assigned: Yoshiki, Effort points: 3)
    - IGM4 (Assigned: Yoshiki, Effort points: 5)
    - IGM5 (Assigned: Yoshiki, Effort points: 5)
    - IGM6 (Assigned: Yoshiki, Effort points: 1)
- Lifelog Reminder(Product Owner: Devin, Effort points: 5)
    - LR1 (Assigned: Devin, Effort Points: 5)
- User Privacy Control(Product Owner: Devin, Effort Points: 10)
    - UPC1(Assigned: Devin, Effort Points: 10)
- Archival (Product Owner: Jack, Effort points: 15)
- AWS Setup (Product Owner: Yoshiki, Effort Points: 10)
    - Create AWS account and add Linux machine(3 hours, Assigned to: Zarif)
    - Setup Apache on Linux machine (4 hours, Assigned to: Yoshiki)
    - Setup TLS certification (3 hours, Assigned to: Devin)

Semester 2 Team Milestone 3

Internal Due Date: May 12th
External Due Date: May 13th
Total Effort Points: 97

- DAR Report Maps API Response Stage(Product Owner: Devin, Effort Points: 10)
- Account Deletion(Product Owner: Jack, Effort Points: 2)
- User Management (Product Owner: Yoshiki, Effort Points: 10)
    - User Management 1(Product Owner: Yoshiki, Effort Points: 5)
    - User Management 2(Product Owner: Phong, Effort Points: 5)
- Interactive Geospatial Map (Product Owner: Yoshiki, Effort points: 2)
    - Gold Plating(Assigned: Yoshiki, Effort points: 2)
- Media Mementos (Product Owner: Jack, Effort points: 2)
    - Gold Plating(Assigned: Jack, Effort points: 2)
- Life tree (Product Owner: Zarif, Effort points: 10)
    - LT3 (Assigned: Zarif, Effort points: 5)
    - LT4 (Assigned: Zarif, Effort points: 5)
- Lifelog Reminder(Product Owner: Devin, Effort points: 2)
    - Gold Plating(Assigned: Devin, Effort Points: 2)
- Logout(Product Owner: Phong, Effort Points: 2)
    - L2(Assigned: Devin, Effort Points: 2)
- UML FE Account Management Page(Assigned: Devin, Effort Points: 2)
- Refactoring(Product Owner: All, Effort Points: 25)
- Gold Plating(Product Owner: All, Effort Points: 30)

Team Capacity

Sprint	Duration	Devin	Jack	Phong	Yoshiki	Zarif
6 (R)	11/23 - 11/27	10	10	10	10	10
7	11/27 - 12/11	20	20	20	20	20
8	12/13 - 12/18	20	20	20	20	20
9	01/15 - 01/22	10	10	10	10	10
10	01/26 - 02/06	20	20	20	20	20
11	02/09 - 02/22	10	10	10	10	10
12	02/28 - 03/14	20	20	20	20	20
13	03/18 - 03/27	30	30	30	30	30
14	04/01 - 04/10	30	30	30	30	30
15	04/15 - 04/24	30	30	30	30	30
16	04/29 - 05/13	10	10	10	10	10

Risk Identification and Mitigation Plans:

General human risk : sickness, family emergency, tragic event, intense class schedule

Solution: Bake an extra week of time after the internal due date for the external due dates, to ensure that timings can be flexible. Address any potential a team member will not be able to finish during standup to ensure the whole team is aware of the situation and able to assist if possible.

Poor product design : Feature requirements did not make sense as presented, will need to be restructured in order to be implemented into our system.

Solution : Discuss with the client if any scope changes happen, and build core requirements and more essential features first, the functionalities at the edge of our decision tree are the most likely to have nonoptimal requirements after the rest of the system is designed. We have been in close contact with clients about introducing our features, so this will likely not occur.

Scope creep: Project could expand, throwing off our estimations and predictions

Solution : Employ a large phase of high level project planning, and take care when defining system requirements to ensure that conceivable work is accounted for. If scope does creep, take advantage of buffers created by internal and external due date differences to address scope creep in the most agile adhering way possible.

Sprint Breakdown:

At the end of each sprint, functionalities introduced up to that point are expected to adhere to their accurate unit tests.

Semester 1:

Sprint 6

Dates: November 23rd to November 27th
Purpose: Recover from semester in general, mentally prepare for finals, enjoy thanksgiving with family, and research/review product to prepare for Team Review 2
Work Brought In:
- Team Review 2

Sprint 7

Dates: November 29th to December 11th
Purpose: Complete deliverables for Milestone 2
Total effort points: 53
Work Brought In:
- Security (Product Owner: Jack, Effort Points: 24.5)
    - Authorization (Assigned to: Yoshiki, 2.5 hours)
    - Authentication (Assigned to: Jack, 5 hours)
    - Authorization tests (Assigned to: Yoshiki, 7.5 hours)
    - Authentication tests (Assigned to: Jack, 7.5 hour)
    - Low Level Design Document (Assigned to: Jack, 2 hour)
- User Management (Product Owner: Phong, Effort Points: 29.5)
    - User Account Creation(Assigned to: Phong, 5 hours)
    - User Profile modification (Assigned to: Devin, 2.5 hours)
    - User Account Deletion (Assigned to: Phong, 2.5 hours)
    - User Account Recovery (Assigned to: Zarif, 5 hours)
    - User Account Creation Test (Assigned to: Phong, 5 hours)
    - User Profile modification Test (Assigned to: Devin, 2.5 hours)
    - User Account Deletion Test (Assigned to: Phong, 2.5 hours)
    - User Account Recovery Test (Assigned to: Zarif 2.5 hours)
    - User Management Library Low-level design doc (2 hours, Assigned to: Devin)
- Network Diagram (Product Owner: Zarif, Effort Points: 9)
    - Overall System Network Traffic Diagram (Assigned to: Zarif, 6 hours)
    - Overall System Network Traffic Addendum (Assigned to: Zarif, 3 hours)

Dec 12th to - Dec 18th is finals week, so semesters work ends with Sprint 7

Sprint 8

Dates: December 13th to December 18th
Purpose: Complete deliverables for Team Milestone 1
Total effort points: 7.5
Work Brought In:
- Security (Product Owner: Jack, Effort Points: 6.5)
    - Hashing Library (1.5hrs, Assigned to: Jack)
    - Hashing Tests (2.5hrs, Assigned to: Jack)
    - Hashing LLD: (2.5hrs, Assigned to: Jack)
- Network Diagram (Product Owner: Zarif, Effort Points: 1)
    - Infrastructure Diagram (Assigned to: Zarif, 1 hours)

Semester 2:

Team milestone 1:
Internal Due Date, March 5th
External Due Date, March 6th

Sprint 9

Dates: January 15th to January 22nd
Purpose: Complete deliverables for Team Milestone 1
Total effort points: 50
Work Brought In:
- DAR Report Maps API Decision Stage(Product Owner: Devin, Effort Points: 10)
- DAR Report Maps API Analysis Stage(Product Owner: Yoshiki, Effort Points: 10)
- DAR Report React Decision Stage(Product Owner: Jack, Effort Points: 10)
- DAR Report React Analysis Stage(Product Owner: Zarif, Effort Points: 10)
- LLI management (Product Owner: Phong, Effort points: 10)
    - LLI 1(Assigned: Phong, Effort points: 10)

Sprint 10

Dates: January 26th to February 6th
Purpose: Complete deliverables for Team Milestone 1
Total effort points: 28
Work Brought In:
- LLI management (Product Owner: Phong, Effort points: 14)

- LLI 2(Assigned: Phong, Effort points: 14)
- UM Library Lifelog User Back End (Product Owner: Yoshiki, Effort points: 14)
    - User Management Library Back End Lifelog User Test (4 hours, Assigned to: Yoshiki)
    - User Management Library Back End Lifelog User LLD (4 hours, Assigned to: Yoshiki)
    - User Management Library Back End Lifelog User Implementation (10 hours, Assigned to: Jack)

Sprint 11

Dates: February 9th to February 22nd
Purpose: Complete deliverables for team milestone 1
Total effort points: 58
Work Brought In:
- Archival (Product Owner: Jack, Effort points: 15)
- Registration (Product Owner: Zarif, Effort points: 16)
- Motivational Quote MQ 1 (Product Owner: Devin, Effort points: 25)
- UML FE Sign in Page(Assigned: Yoshiki, Effort Points: 1)
- UML FE Sign UpPage(Assigned: Phong, Effort Points: 1)
- LLI management (Product Owner: Phong, Effort points: 10)
    - LLI 3 (Assigned: Phong, Effort points: 5)
    - LLI 4 (Assigned: Phong, Effort points: 5)

Team milestone 2:
Internal Due Date, April 21st
External Due Date, April 22nd

Sprint 12

Dates: February 28th to March 14th
Purpose: Complete deliverables for team milestone 1 and transition Team Milestone 2
Total effort points: 57
Work Brought In:
- Recommendation Engine (Product Owner: Jack, Effort points: 20)
    - RE1 (Assigned: Jack, Effort points: (10)
- LifeLog Calendar (Product Owner: Zarif, Effort points: 20)
    - LC1 (Assigned: Zarif, Effort points: 10)
    - LC2 (Assigned: Zarif, Effort points:10)
- Authentication(Product Owner:Yoshiki, Effort Points: 5)
    - A1(Assigned: Yoshiki, Effort points: 3)
    - A2(Assigned: Yoshiki, Effort points: 2)
- Logout(Product Owner:Yoshiki, Effort Points: 2)
    - L1(Assigned: Yoshiki, Effort points: 2)

- AWS Setup (Product Owner: Yoshiki, Effort Points: 10)
    - Create AWS account and add Linux machine(3 hours, Assigned to: Zarif)
    - Setup Apache on Linux machine (4 hours, Assigned to: Yoshiki)
    - Setup TLS certification (3 hours, Assigned to: Devin)

Sprint 13

Dates: March 18th to March 27th
Purpose: Complete deliverables for Team Milestone 2
Total effort points: 125
Work Brought In:

- LLI management (Product Owner: Phong, Effort points: 10)
    - LLI5 (Assigned: Phong, Effort points: 5)
    - LLI6 (Assigned: Phong, Effort points: 5)
- LifeLog Calendar (Product Owner: Zarif, Effort points: 40)
    - LC1 (Assigned: Zarif, Effort points: 15)
    - LC2 (Assigned: Zarif, Effort points:10)
    - LC3 (Assigned: Zarif, Effort points:5)
    - LC4 (Assigned: Zarif, Effort points: 5)
    - LC5 (Assigned: Zarif, Effort points: 5)
- Personal Note (Product Owner: Yoshiki, Effort points: 25)
    - PN1 (Assigned: Yoshiki, Effort points: 10)
    - PN2 (Assigned: Yoshiki, Effort points: 5)
    - PN3 (Assigned: Yoshiki, Effort points: 5)
    - PN4 (Assigned: Yoshiki, Effort points: 5)
- Recommendation Engine (Product Owner: Jack, Effort points: 20)
    - RE1 (Assigned: Jack, Effort points: 15)
    - RE2 (Assigned: Jack, Effort points: 5)
- User Form (Product Owner: Phong, Effort points: 10)
    - UF1 (Assigned: Phong, Effort points: 5)
    - UF2 (Assigned: Phong, Effort points: 5)
- Location Recommendation (Assigned: Devin, Effort points: 30)
    - LoR1 (Assigned: Devin, Effort points: 15)
    - LoR2 (Assigned: Devin, Effort points: 10)
    - LoR3 (Assigned: Devin, Effort points: 5)

Sprint 14

Dates: April 1st to April 10th
Purpose: Complete deliverables for Team Milestone 2
Total effort points: 112

- User Form (Product Owner: Phong, Effort points: 2)
    - Gold Plating (Assigned: Phong, Effort points: 2)
- Personal Note (Product Owner: Yoshiki, Effort points: 2)
    - Gold Plating(Assigned: Yoshiki, Effort points: 2)
- Recommendation Engine (Product Owner: Jack, Effort points: 2)
    - Gold Plating(Assigned: Jack, Effort points: 2)
- Usage analysis dashboard (Product Owner: Phong, Effort points: 10)
    - View Graphs (Assigned: Phong, Effort points: 10)
- Account Recovery(Product Owner: Phong, Effort Points: 5)
- Media Mementos (Product Owner: Jack, Effort points: 25)
    - MM1 (Assigned: Jack, Effort points: 15)
    - MM2 (Assigned: Jack, Effort points: 5)
    - MM3 (Assigned: Jack, Effort points: 5)
- Life tree (Product Owner: Zarif, Effort points: 20)
    - LT1 (Assigned: Zarif, Effort points: 10)
    - LT2 (Assigned: Zarif, Effort points: 10)
- Interactive Geospatial Map (Product Owner: Yoshiki, Effort points: 32)
    - IGM1 (Assigned: Yoshiki, Effort points: 15)
    - IGM2 (Assigned: Yoshiki, Effort points: 3)
    - IGM3 (Assigned: Yoshiki, Effort points: 3)
    - IGM4 (Assigned: Yoshiki, Effort points: 5)
    - IGM5 (Assigned: Yoshiki, Effort points: 5)
    - IGM6 (Assigned: Yoshiki, Effort points: 1)
- Location Recommendation (Assigned: Devin, Effort points: 4)
    - LoR4 (Assigned: Devin, Effort points: 2)
    - Gold Plating(Assigned: Devin, Effort points: 2)
- Lifelog Reminder(Product Owner: Devin, Effort points: 5)
    - LR1 (Assigned: Devin, Effort Points: 5)
- User Privacy Control(Product Owner: Devin, Effort Points: 10)
    - UPC1(Assigned: Devin, Effort Points: 10)

Team milestone 3:
Internal Due Date, May 12th
External Due Date, May 13th

Sprint 15

Dates: April 15th to April 24th
Purpose: Complete deliverables for Team Milestone 2 and transition into Milestone 3
Total effort points: 40
Work Brought In:
- DAR Report Maps API Response Stage(Product Owner: Devin, Effort Points: 10)

- Account Deletion(Product Owner: Jack, Effort Points: 2)
- User Management (Product Owner: Yoshiki, Effort Points: 10)
    - User Management 1(Product Owner: Yoshiki, Effort Points: 5)
    - User Management 2(Product Owner: Phong, Effort Points: 5)
- Interactive Geospatial Map (Product Owner: Yoshiki, Effort points: 2)
    - Gold Plating(Assigned: Yoshiki, Effort points: 2)
- Media Mementos (Product Owner: Jack, Effort points: 2)
    - Gold Plating(Assigned: Jack, Effort points: 2)
- Life tree (Product Owner: Zarif, Effort points: 10)
    - LT3 (Assigned: Zarif, Effort points: 5)
    - LT4 (Assigned: Zarif, Effort points: 5)
- Lifelog Reminder(Product Owner: Devin, Effort points: 2)
    - Gold Plating(Assigned: Devin, Effort Points: 2)
- Logout(Product Owner: Phong, Effort Points: 2)
    - L2(Assigned: Devin, Effort Points: 2)
- UML FE Account Management Page(Assigned: Devin, Effort Points: 2)

Sprint 16

Dates: April 28th to May 13th
Purpose: Complete deliverables for Team Milestone 3
Total effort points: 55
Work Brought In:
- Refactoring(Product Owner: All, Effort Points: 25)
- Gold Plating(Product Owner: All, Effort Points: 30)