Internal Project Plan
Hubba

Version 2.1
Prepared By: Development Hell
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Github Repository:
https://github.com/DevelopmentHellaHell/SeniorProject

Team Leader
Kevin Dinh
Members
Garrett Tsumaki
Bryan Tran
Jett Sonoda
Tien Nguyen
Darius Koroni

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Version History

Version	Overview	Date
v1.0	Initial Internal Project Plan	October 5, 2022
v2.0	Collaborative System Feature Added	November 28, 2022
v2.1	Changes to Phases, Risk Mitigation, Risk Categories, Project Breakdown, and Feasibility	December 7, 2022

<u>Overview</u>

This document's purpose is to provide a greater level of detail for the timeline established in Hubba RFP v1.4 to the team and stakeholders as well as other deliverables for external sources. (Note that there are changes to the deliverable timeline since Hubba RFP v1.4 that are expanded in this document). Included in this document are deliverables mentioned in Hubba RFP v1.4 and other documents necessary to the development of our application. Each work item includes specific start and end dates of work items per sprint. It outlines the order that these features will be researched, designed, and implemented based on dependencies, complexity, and team capacity. Additional details include a primary assignee tasked to each deliverable to inform the team and stakeholders who will be working certain features as well as being held accountable for the delivery. While these deliverables are to be delivered during different phases, all team members are tasked with work items each sprint, regardless of when their deliverable is due.

Risk Categories

Risk Level	Description
Mild	The team has little to no concern about not being able to complete the work on time in the case of seen and unforeseen circumstances.
Moderate	The team has little concern about not being able to complete the work on time in the case of unforeseen circumstances.
Severe	The team is very concerned about not being able to complete the work on time in the case of unforeseen circumstances.
Extreme	The team is very concerned about not being able to complete the work on time in the case of seen and unforeseen circumstances.

Tolerance Categories

Tolerance Level	Description
1	The team has little to no tolerance during this time. There is no room for adjustments to be made to the timeline given the risk and tasks associated.
2	The team has a mild level of tolerance during this time. There is little room for adjustments to be made to the timeline given the risk and tasks associated.
3	The team has an extreme level of tolerance during this time. There is plenty of room for adjustments to be made to the timeline given the risk and tasks associated.

Project Breakdown

Category	Projected
Total Number of Sprints	21 Sprints
Total Estimated Hours	~4630.5 hours
Total Development Time	~1253 hours
Total Testing Time	~627 hours

Project Plan

This section is broken down into phases for our application development. Risk levels are displayed per phase as well as mitigation procedures to lead towards a successful release of our application. Each table of each phase will only display one team member with sprint-to-sprint work items. Mentioned during certain phases' risk mitigation methods, work items per phase are not limited to that phase's deliverables.

*Note that the tables displayed below are bound to change based on unforeseen circumstances, completion, client feedback, etc.

Phase 1 (August 28, 2022 - October 5, 2022)

Milestone 1 deliverables will be delivered by the end of this phase.
These deliverables include:
- Business Requirements Document
- Project Plan
- High-level Design Document

*Note that October 6, 2022 is not in this phase and is only displayed for formatting purposes in the tables

Risk

Due to delays in the project proposal and external sources, we perceive Phase 1 of Hubba as an extreme risk level.

Tolerance

The team renders this phase as level 1 Tolerance.

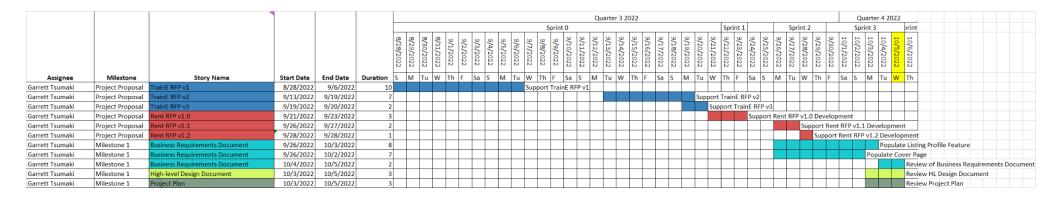The team plans to mitigate this risk through two strategies:
1. We will have shorter sprints to push for work items to be completed in a shorter time frame. Holding shorter sprints means team members will need to work at a constant rate and not procrastinate to keep up with the amount of work.
2. We will work over our standard capacity. By working over our standard capacity and staying on-task, the team will output more work than normal.

Team Members' Planned Activities

Quarter 3 2022 — Quarter 4 2022

Assignee	Milestone	Story Name	Start Date	End Date	Duration
Jett Sonoda	Project Proposal	TrainE RFP v1	8/28/2022	9/6/2022	10
Jett Sonoda	Project Proposal	TrainE RFP v2	9/13/2022	9/19/2022	7
Jett Sonoda	Project Proposal	TrainE RFP v3	9/19/2022	9/20/2022	2
Jett Sonoda	Project Proposal	Rent RFP v1.0	9/21/2022	9/23/2022	3
Jett Sonoda	Project Proposal	Rent RFP v1.1	9/26/2022	9/27/2022	2
Jett Sonoda	Project Proposal	Rent RFP v1.2	9/28/2022	9/28/2022	1
Jett Sonoda	Project Proposal	Rent RFP v1.3	10/1/2022	10/1/2022	1
Jett Sonoda	Project Proposal	Rent RFP v1.4	10/1/2022	10/1/2022	1
Jett Sonoda	Milestone 1	Project Plan	9/26/2022	9/29/2022	4
Jett Sonoda	Milestone 1	Project Plan	9/30/2022	10/1/2022	2
Jett Sonoda	Milestone 1	Project Plan	10/2/2022	10/5/2022	4
Jett Sonoda	Milestone 1	High-level Design Document	10/2/2022	10/3/2022	2
Jett Sonoda	Milestone 1	High-level Design Document	10/4/2022	10/5/2022	2
Jett Sonoda	Milestone 1	Business Requirements Document	10/2/2022	10/5/2022	4

Gantt bar labels: Support TrainE RFP v1; Support TrainE RFP v2; Support TrainE RFP v3; Support Rent RFP v1.0 Development; Support Rent RFP v1.1 Development; Support Rent RFP v1.2 Development; Support Rent RFP v1.3 Development; Support Rent RFP v1.4 Development; Research Project Plan Format; Develop Client Roadmap; Develop Internal Project Plan; Support HL Design Research; Review HL Design Document; Review Business Requirements Document

Quarter 3 2022 — Quarter 4 2022

Assignee	Milestone	Story Name	Start Date	End Date	Duration
Kevin Dinh	Project Proposal	TrainE RFP v1	8/28/2022	9/6/2022	10
Kevin Dinh	Project Proposal	TrainE RFP v2	9/13/2022	9/19/2022	7
Kevin Dinh	Project Proposal	TrainE RFP v3	9/19/2022	9/20/2022	2
Kevin Dinh	Project Proposal	Rent RFP v1.0	9/21/2022	9/23/2022	3
Kevin Dinh	Project Proposal	Rent RFP v1.1	9/26/2022	9/27/2022	2
Kevin Dinh	Project Proposal	Rent RFP v1.2	9/28/2022	9/28/2022	1
Kevin Dinh	Milestone 1	Business Requirements Document	9/26/2022	10/1/2022	6
Kevin Dinh	Milestone 1	Business Requirements Document	10/2/2022	10/5/2022	4
Kevin Dinh	Milestone 1	High-level Design Document	9/30/2022	10/2/2022	3
Kevin Dinh	Milestone 1	High-level Design Document	10/3/2022	10/5/2022	3
Kevin Dinh	Milestone 1	Project Plan	10/3/2022	10/5/2022	3

Gantt bar labels: Support TrainE RFP v1; Support TrainE RFP v2; Support TrainE RFP v3; Support Rent RFP v1.0 Development; Support Rent RFP v1.1 Development; Support Rent RFP v1.2 Development; Populate Notification Feature; Review Business Requirements Document; Research HL Document Format; Review HL Design Document; Review Project Plan

Quarter 3 2022 / Quarter 4 2022 — Sprint 0, Sprint 1, Sprint 2, Sprint 3

Assignee	Milestone	Story Name	Start Date	End Date	Duration	Task Label
Bryan Tran	Project Proposal	TrainE RFP v1	8/28/2022	9/6/2022	10	Support TrainE RFP v1
Bryan Tran	Project Proposal	TrainE RFP v2	9/13/2022	9/19/2022	7	Support TrainE RFP v2
Bryan Tran	Project Proposal	TrainE RFP v3	9/19/2022	9/20/2022	2	Support TrainE RFP v3
Bryan Tran	Project Proposal	Rent RFP v1.0	9/21/2022	9/23/2022	3	Support Rent RFP v1.0 Development
Bryan Tran	Project Proposal	Rent RFP v1.1	9/26/2022	9/27/2022	2	Support Rent RFP v1.1 Development
Bryan Tran	Project Proposal	Rent RFP v1.2	9/28/2022	9/28/2022	1	Support Rent RFP v1.2 Development
Bryan Tran	Project Proposal	Rent RFP v1.3	10/1/2022	10/1/2022	1	Support Rent RFP v1.3 Development
Bryan Tran	Project Proposal	Rent RFP v1.4	10/1/2022	10/1/2022	1	Support Rent RFP v1.4 Development
Bryan Tran	Milestone 1	Business Requirements Document	9/26/2022	9/30/2022	5	Populate Discovery Feature
Bryan Tran	Milestone 1	Business Requirements Document	10/1/2022	10/3/2022	3	Populate Error-Handling
Bryan Tran	Milestone 1	Business Requirements Document	10/4/2022	10/5/2022	2	Review Business Requirements Document
Bryan Tran	Milestone 1	High-level Design Document	10/1/2022	10/5/2022	5	Research HL Design Architecture
Bryan Tran	Milestone 1	Project Plan	10/3/2022	10/5/2022	3	Review Project Plan

Assignee	Milestone	Story Name	Start Date	End Date	Duration	Task Label
Darius Koroni	Project Proposal	TrainE RFP v1	8/28/2022	9/6/2022	10	Support TrainE RFP v1
Darius Koroni	Project Proposal	TrainE RFP v2	9/13/2022	9/19/2022	7	Support TrainE RFP v2
Darius Koroni	Project Proposal	TrainE RFP v3	9/19/2022	9/20/2022	2	Support TrainE RFP v3
Darius Koroni	Project Proposal	Rent RFP v1.0	9/21/2022	9/23/2022	3	Support Rent RFP v1.0 Development
Darius Koroni	Project Proposal	Rent RFP v1.1	9/26/2022	9/27/2022	2	Support Rent RFP v1.1 Development
Darius Koroni	Project Proposal	Rent RFP v1.2	9/28/2022	9/28/2022	1	Support Rent RFP v1.2 Development
Darius Koroni	Milestone 1	Business Requirements Document	9/26/2022	9/30/2022	5	Populate Scheduling Feature
Darius Koroni	Milestone 1	Business Requirements Document	10/1/2022	10/3/2022	3	Populate Project Showcase Feature
Darius Koroni	Milestone 1	Business Requirements Document	10/4/2022	10/5/2022	2	Review Business Requirements Document
Darius Koroni	Milestone 1	High-level Design Document	9/30/2022	10/2/2022	3	Research HL Design
Darius Koroni	Milestone 1	High-level Design Document	10/3/2022	10/5/2022	3	Review HL Design Document
Darius Koroni	Milestone 1	Project Plan	10/3/2022	10/5/2022	3	Review Project Plan

Assignee	Milestone	Story Name	Start Date	End Date	Duration	Task Label
Tien Nguyen	Project Proposal	TrainE RFP v1	8/28/2022	9/6/2022	10	Support TrainE RFP v1
Tien Nguyen	Project Proposal	TrainE RFP v2	9/13/2022	9/19/2022	7	Support TrainE RFP v2
Tien Nguyen	Project Proposal	TrainE RFP v3	9/19/2022	9/20/2022	2	Support TrainE RFP v3
Tien Nguyen	Project Proposal	Rent RFP v1.0	9/21/2022	9/23/2022	3	Support Rent RFP v1.0 Development
Tien Nguyen	Project Proposal	Rent RFP v1.1	9/26/2022	9/27/2022	2	Support Rent RFP v1.1 Development
Tien Nguyen	Project Proposal	Rent RFP v1.2	9/28/2022	9/28/2022	1	Support Rent RFP v1.2 Development
Tien Nguyen	Milestone 1	Business Requirements Document	9/30/2022	10/1/2022	2	Populate Account Feature
Tien Nguyen	Milestone 1	Business Requirements Document	10/2/2022	10/3/2022	2	Populate Logging System
Tien Nguyen	Milestone 1	Business Requirements Document	10/4/2022	10/5/2022	2	Conduct Review of Business Requirements Document
Tien Nguyen	Milestone 1	High-level Design Document	10/3/2022	10/5/2022	3	Review HL Design Document
Tien Nguyen	Milestone 1	Project Plan	10/3/2022	10/5/2022	3	Review Project Plan

Assignee	Milestone	Story Name	Start Date	End Date	Duration	Gantt / Label
Garrett Tsumaki	Project Proposal	TrainE RFP v1	8/28/2022	9/6/2022	10	Support TrainE RFP v1
Garrett Tsumaki	Project Proposal	TrainE RFP v2	9/13/2022	9/19/2022	7	Support TrainE RFP v2
Garrett Tsumaki	Project Proposal	TrainE RFP v3	9/19/2022	9/20/2022	2	Support TrainE RFP v3
Garrett Tsumaki	Project Proposal	Rent RFP v1.0	9/21/2022	9/23/2022	3	Support Rent RFP v1.0 Development
Garrett Tsumaki	Project Proposal	Rent RFP v1.1	9/26/2022	9/27/2022	2	Support Rent RFP v1.1 Development
Garrett Tsumaki	Project Proposal	Rent RFP v1.2	9/28/2022	9/28/2022	1	Support Rent RFP v1.2 Development
Garrett Tsumaki	Milestone 1	Business Requirements Document	9/26/2022	10/3/2022	8	Populate Listing Profile Feature
Garrett Tsumaki	Milestone 1	Business Requirements Document	9/26/2022	10/2/2022	7	Populate Cover Page
Garrett Tsumaki	Milestone 1	Business Requirements Document	10/4/2022	10/5/2022	2	Review of Business Requirements Document
Garrett Tsumaki	Milestone 1	High-level Design Document	10/3/2022	10/5/2022	3	Review HL Design Document
Garrett Tsumaki	Milestone 1	Project Plan	10/3/2022	10/5/2022	3	Review Project Plan

Timeline headers: Quarter 3 2022 (Sprint 0, Sprint 1, Sprint 2, Sprint 3), Quarter 4 2022 (Sprint). Dates from 8/28/2022 through 10/6/2022.

Phase 2 (October 6, 2022 - November 9, 2022)

Milestone 2 deliverables will be delivered by the end of this phase.
These deliverables include:
- Network Diagram
- Logging

*Note that November 10, 2022 is not in this phase and is only displayed for formatting purposes in the tables

Risk

Due to planned client feedback, unknowns for certain features that team members will encounter, and unanticipated time off of team members, we perceive the risk level of Phase 2 for Hubba as moderate.

Tolerance

The team renders this phase as level 2 Tolerance.

The team plans to mitigate this risk through two strategies:
1. We will hold a research sprint at the start of Phase 2 in order to prepare for any technological inexperience. This will provide the team better resources to eliminate as many unknowns for their tasked assignments as well as better gauge their effort needed per sprint.
2. We have tasked certain team members with supporting primary assignees and their features. While these team members are not the primary assignee, they are capable of handling any client feedback for previous deliverables or the feature in the case of unexpected time off from the primary assignee.

Team Members' Planned Activities

Assignee	Milestone	Story Name	Start Date	End Date	Duration (Days)	Activity
Jett Sonoda	N/A	Research Technology	10/6/2022	10/12/2022	7	Research and setup local environment
Jett Sonoda	Milestone 1	High-level Design Document	10/13/2022	10/19/2022	7	High-Level Design Document v1.3
Jett Sonoda	Milestone 2	Logging	10/13/2022	10/19/2022	7	Support High-Level Design
Jett Sonoda	Milestone 2	Registration	10/13/2022	10/19/2022	7	Support High-Level Design
Jett Sonoda	Milestone 2	Logging	10/20/2022	10/26/2022	7	Support design
Jett Sonoda	Milestone 2	Registration	10/20/2022	10/26/2022	7	Support design
Jett Sonoda	Milestone 1	Business Requirements Document	10/20/2022	10/26/2022	7	BRD v1.3
Jett Sonoda	Milestone 2	Logging	10/27/2022	11/9/2022	14	Support implementation
Jett Sonoda	Milestone 2	Registration	10/27/2022	11/9/2022	14	Support implementation
Jett Sonoda	Milestone 2	Support Milestone 2	11/3/2022	11/9/2022	7	Review Deliverables

Assignee	Milestone	Story Name	Start Date	End Date	Duration (Days)	Activity
Kevin Dinh	N/A	Research Technology	10/6/2022	10/12/2022	7	Research and setup local environment
Kevin Dinh	Milestone 2	Logging	10/13/2022	10/19/2022	7	Support High-Level Design
Kevin Dinh	Milestone 2	Registration	10/13/2022	10/19/2022	7	Support High-Level Design
Kevin Dinh	Milestone 2	Network Diagram	10/13/2022	10/19/2022	7	Research Network Diagram Format
Kevin Dinh	Milestone 2	Logging	10/20/2022	10/26/2022	7	Support design
Kevin Dinh	Milestone 2	Registration	10/20/2022	10/26/2022	7	Support design
Kevin Dinh	Milestone 2	Logging	10/27/2022	11/9/2022	14	Support implementation
Kevin Dinh	Milestone 2	Registration	10/27/2022	11/9/2022	14	Support implementation
Kevin Dinh	Milestone 2	Network Diagram	10/27/2022	11/9/2022	14	Network Diagram v1.0
Kevin Dinh	Milestone 2	Support Milestone 2	11/3/2022	11/9/2022	7	Review Deliverables

Assignee	Milestone	Story Name	Start Date	End Date	Duration (Days)	Gantt annotation
Bryan Tran	N/A	Research Technology	10/6/2022	10/12/2022	7	Research and setup local environment
Bryan Tran	Milestone 1	High-level Design Document	10/13/2022	10/19/2022	7	High-Level Design Document v1.3
Bryan Tran	Milestone 2	Logging	10/13/2022	10/19/2022	7	Support High-Level Design
Bryan Tran	Milestone 2	Registration	10/13/2022	10/19/2022	7	Support High-Level Design
Bryan Tran	Milestone 2	Logging	10/20/2022	10/26/2022	7	Support design
Bryan Tran	Milestone 2	Registration	10/20/2022	10/26/2022	7	Support design
Bryan Tran	Milestone 1	Business Requirements Document	10/20/2022	10/26/2022	7	BRD v1.3
Bryan Tran	Milestone 2	Logging	10/27/2022	11/9/2022	14	Support implementation
Bryan Tran	Milestone 2	Registration	10/27/2022	11/9/2022	14	Support implementation
Bryan Tran	Milestone 2	Support Milestone 2	11/3/2022	11/9/2022	7	Review Deliverables

Assignee	Milestone	Story Name	Start Date	End Date	Duration (Days)	Gantt annotation
Darius Koroni	N/A	Research Technology	10/6/2022	10/12/2022	7	Research and setup local environment
Darius Koroni	Milestone 1	High-level Design Document	10/13/2022	10/19/2022	7	High-Level Design Document v1.3
Darius Koroni	Milestone 2	Logging	10/13/2022	10/19/2022	7	Support High-Level Design
Darius Koroni	Milestone 2	Registration	10/13/2022	10/19/2022	7	Support High-Level Design
Darius Koroni	Milestone 2	Logging	10/20/2022	10/26/2022	7	Support design
Darius Koroni	Milestone 2	Registration	10/20/2022	10/26/2022	7	Support design
Darius Koroni	Milestone 1	Business Requirements Document	10/20/2022	10/26/2022	7	BRD v1.3
Darius Koroni	Milestone 2	Logging	10/27/2022	11/9/2022	14	Support implementation
Darius Koroni	Milestone 2	Registration	10/27/2022	11/9/2022	14	Support implementation
Darius Koroni	Milestone 2	Support Milestone 2	11/3/2022	11/9/2022	7	Review Deliverables

Assignee	Milestone	Story Name	Start Date	End Date	Duration (Days)	Gantt annotation
Tien Nguyen	N/A	Research Technology	10/6/2022	10/12/2022	7	Research and setup local environment
Tien Nguyen	Milestone 1	High-level Design Document	10/13/2022	10/19/2022	7	High-Level Design Document v1.3
Tien Nguyen	Milestone 2	Logging	10/13/2022	10/19/2022	7	Support High-Level Design
Tien Nguyen	Milestone 2	Registration	10/13/2022	10/19/2022	7	Design High-Level
Tien Nguyen	Milestone 2	Registration	10/20/2022	10/26/2022	7	Develop Low-Level Design
Tien Nguyen	Milestone 2	Logging	10/20/2022	10/26/2022	7	Support design
Tien Nguyen	Milestone 2	Logging	10/27/2022	11/9/2022	14	Support implementation
Tien Nguyen	Milestone 2	Registration	10/27/2022	11/9/2022	14	Implement backend
Tien Nguyen	Milestone 2	Support Milestone 2	11/3/2022	11/9/2022	7	Review Deliverables

Sprint columns (dates): Sprint 4 (10/6/2022 – 10/12/2022), Sprint 5 (10/13/2022 – 10/19/2022), Sprint 6 (10/20/2022 – 10/26/2022), Sprint 7 (10/27/2022 – 11/2/2022), Sprint 8 (11/3/2022 – 11/9/2022), N/A (11/10/2022)

Assignee	Milestone	Story Name	Start Date	End Date	Duration (Days)	Gantt Bar Label
Garrett Tsumaki	N/A	Research Technology	10/6/2022	10/12/2022	7	Research and setup local environment
Garrett Tsumaki	Milestone 1	High-level Design Document	10/13/2022	10/19/2022	7	High-Level Design Document v1.3
Garrett Tsumaki	Milestone 2	Logging	10/13/2022	10/19/2022	7	Design High-Level
Garrett Tsumaki	Milestone 2	Registration	10/13/2022	10/19/2022	7	Support High-Level Design
Garrett Tsumaki	Milestone 2	Logging	10/20/2022	10/26/2022	7	Develop Low-Level Design
Garrett Tsumaki	Milestone 2	Registration	10/20/2022	10/26/2022	7	Support design
Garrett Tsumaki	Milestone 2	Logging	10/27/2022	11/9/2022	14	Implement backend
Garrett Tsumaki	Milestone 2	Registration	10/27/2022	11/9/2022	14	Support implementation
Garrett Tsumaki	Milestone 2	Support Milestone 2	11/3/2022	11/9/2022	7	Review Deliverables

Sprint 4: 10/6/2022 – 10/12/2022 (Th, F, Sa, S, M, Tu, W)
Sprint 5: 10/13/2022 – 10/19/2022 (Th, F, Sa, S, M, Tu, W)
Sprint 6: 10/20/2022 – 10/26/2022 (Th, F, Sa, S, M, Tu, W)
Sprint 7: 10/27/2022 – 11/2/2022 (Th, F, Sa, S, M, Tu, W)
Sprint 8: 11/3/2022 – 11/9/2022 (Th, F, Sa, S, M, Tu, W)
N/A: 11/10/2022 (Th)

Phase 3 (November 10, 2022 - December 14, 2022)

Milestone 3 deliverables will be delivered by the end of this phase.
These deliverables include:
- Authentication
- Authorization
- Registration
- Bill of Materials

Note that December 13, 2022 is not in this phase and is only displayed for formatting purposes in the tables

Risk

Due to planned client feedback, unknowns for certain features that team members will encounter, holidays, and unanticipated time off of team members, we perceive the risk level of Phase 3 for Hubba as moderate.

Tolerance

The team renders this phase as level 2 Tolerance.

The team plans to mitigate this risk through two strategies:
1. We will hold a research sprint at the start of Phase 3 in order to prepare for any technological inexperience. This will provide the team better resources to eliminate as many unknowns for their tasked assignments as well as better gauge their effort needed per sprint.
2. We have tasked certain team members with supporting primary assignees and their features. While these team members are not the primary assignee, they are capable of handling any client feedback for previous deliverables or the feature in the case of unexpected time off from the primary assignee.

Team Members' Planned Activities

Jett Sonoda

Assignee	Milestone	Story Name	Start Date	End Date	Duration (Days)	Activity
Jett Sonoda	Milestone 3	Account Recovery	11/11/2022	11/14/2022	4	Develop High-Level Design
Jett Sonoda	Milestone 3	One-Time Password	11/20/2022	11/28/2022	9	Develop Design
Jett Sonoda	Milestone 1	Project Plan	11/20/2022	11/28/2022	9	Project Plan 2.0
Jett Sonoda	Milestone 3	Authentication	11/26/2022	11/28/2022	3	Review Authentication Design
Jett Sonoda	Milestone 1	Project Plan	11/29/2022	12/5/2022	7	Project Plan v2.1
Jett Sonoda	Milestone 3	One-Time Password	11/29/2022	12/5/2022	7	Implement Backend
Jett Sonoda	Milestone 1	Project Plan	12/6/2022	12/12/2022	7	Project Plan v2.1
Jett Sonoda	Milestone 3	One-Time Password	12/6/2022	12/12/2022	7	Revise Low-Level Design
Jett Sonoda	Milestone 3	Support Milestone 3	12/13/2022	12/14/2022	2	Support remaining stories

Kevin Dinh

Assignee	Milestone	Story Name	Start Date	End Date	Duration (Days)	Activity
Kevin Dinh	Milestone 3	Authorization	11/11/2022	11/14/2022	4	Support Design
Kevin Dinh	Milestone 3	One-Time Password	11/20/2022	11/28/2022	9	Support Design
Kevin Dinh	Milestone 1	Business Requirements Document	11/20/2022	11/28/2022	9	BRD v2.5
Kevin Dinh	Milestone 1	Project Plan	11/20/2022	11/28/2022	9	Support Project Plan v2.0
Kevin Dinh	Milestone 3	DAR Reports	11/29/2022	12/5/2022	7	DAR Reports v1.0
Kevin Dinh	Milestone 1	Business Requirements Document	11/29/2022	12/4/2022	6	BRD v3.0
Kevin Dinh	Milestone 1	Business Requirements Document	12/5/2022	12/5/2022	1	BRD v3.1
Kevin Dinh	Milestone 1	Business Requirements Document	12/6/2022	12/7/2022	2	BRD v3.2
Kevin Dinh	Milestone 3	DAR Reports	12/6/2022	12/12/2022	7	DAR Reports v1.1
Kevin Dinh	Milestone 3	Software Bill of Materials	12/6/2022	12/12/2022	7	BoM v1.0
Kevin Dinh	Milestone 3	Support Milestone 3	12/13/2022	12/14/2022	2	Support remaining stories

Sprint timeline (columns): N/A, Sprint 9, N/A, Sprint 10, Sprint 11, Sprint 12, Sprint 13, Winter Break — dates from 11/10/2022 to 12/21/2022.

Assignee	Milestone	Story Name	Start Date	End Date	Duration (Days)	Task
Bryan Tran	Milestone 3	Authentication	11/11/2022	11/14/2022	4	Develop High-Level Design
Bryan Tran	Milestone 3	Authentication	11/20/2022	11/28/2022	9	Develop Low-Level Design
Bryan Tran	Milestone 3	One-Time Password	11/26/2022	11/28/2022	3	Review OTP Design
Bryan Tran	Milestone 3	Authorization	11/20/2022	11/28/2022	9	Support Low-Level Design
Bryan Tran	Milestone 3	Authentication	11/29/2022	12/5/2022	7	Develop Low-Level Design
Bryan Tran	Milestone 3	Authentication	11/29/2022	12/5/2022	7	Implement Backend
Bryan Tran	Milestone 3	One-Time Password	11/29/2022	12/5/2022	7	Implement Backend
Bryan Tran	Milestone 2	Registration	12/6/2022	12/12/2022	7	Revise Implementation
Bryan Tran	Milestone 3	Authentication	12/6/2022	12/12/2022	7	Implement Backend
Bryan Tran	Milestone 3	Authorization	12/6/2022	12/12/2022	7	Implement Backend
Bryan Tran	Milestone 3	One-Time Password	12/6/2022	12/12/2022	7	Implement Backend
Bryan Tran	Milestone 3	Support Milestone 3	12/13/2022	12/14/2022	2	Support remaining stories

Assignee	Milestone	Story Name	Start Date	End Date	Duration (Days)	Task
Darius Koroni	Milestone 3	Authorization	11/11/2022	11/14/2022	4	Develop High-Level Design
Darius Koroni	Milestone 1	Business Requirements Document	11/20/2022	11/28/2022	9	BRD v2.5
Darius Koroni	Milestone 3	Authorization	11/20/2022	11/28/2022	9	Develop Low-Level Design
Darius Koroni	Milestone 3	Authentication	11/26/2022	11/28/2022	3	Review Authentication Design
Darius Koroni	Milestone 3	DAR Reports	11/29/2022	12/5/2022	7	DAR Reports v1.0
Darius Koroni	Milestone 1	Business Requirements Document	11/29/2022	12/4/2022	6	BRD v3.0
Darius Koroni	Milestone 1	Business Requirements Document	12/5/2022	12/5/2022	1	BRD v3.1
Darius Koroni	Milestone 1	Business Requirements Document	12/6/2022	12/7/2022	2	BRD v3.2
Darius Koroni	Milestone 3	DAR Reports	12/6/2022	12/7/2022	2	DAR Reports v1.1
Darius Koroni	Milestone 3	Software Bill of Materials	12/6/2022	12/12/2022	7	BoM v1.0
Darius Koroni	Milestone 3	Support Milestone 3	12/6/2022	12/12/2022	7	Support remaining stories

Sprint columns (both tables): N/A, Sprint 9, N/A, Sprint 10, Sprint 11, Sprint 12, Sprint 13, Winter Break — dates 11/10/2022 through 12/21/2022 (12/14/2022 highlighted).

Tien Nguyen

Assignee	Milestone	Story Name	Start Date	End Date	Duration (Days)	Gantt Notes
Tien Nguyen	Milestone 3	Authentication	11/11/2022	11/14/2022	4	Support Design
Tien Nguyen	Milestone 3	Authentication	11/20/2022	11/28/2022	9	Support Low-Level Design
Tien Nguyen	Milestone 3	One-Time Password	11/26/2022	11/28/2022	3	Review OTP Design
Tien Nguyen	Milestone 2	Registration	11/20/2022	11/28/2022	9	Revise Registration Low-Level Design
Tien Nguyen	Milestone 2	Registration	11/29/2022	12/5/2022	7	Revise Registration Low-Level Design
Tien Nguyen	Milestone 3	Authentication	11/29/2022	12/5/2022	7	Support Low-Level Design
Tien Nguyen	Milestone 3	Authentication	12/6/2022	12/12/2022	7	Revise Low-Level Design
Tien Nguyen	Milestone 3	Authorization	12/6/2022	12/12/2022	7	Revise Low-Level Design
Tien Nguyen	Milestone 3	One-Time Password	12/6/2022	12/12/2022	7	Revise Low-Level Design
Tien Nguyen	Milestone 3	Support Milestone 3	12/13/2022	12/14/2022	2	Support remaining stories

Garrett Tsumaki

Assignee	Milestone	Story Name	Start Date	End Date	Duration (Days)	Gantt Notes
Garrett Tsumaki	Milestone 2	Account Recovery	11/11/2022	11/14/2022	4	Support Design
Garrett Tsumaki	Milestone 2	Logging	11/20/2022	11/28/2022	9	Revise Logging Implementation
Garrett Tsumaki	Milestone 3	Authentication	11/29/2022	12/5/2022	7	Support Low-Level Design
Garrett Tsumaki	Milestone 3	Authentication	11/29/2022	12/5/2022	7	Implement Backend
Garrett Tsumaki	Milestone 3	One-Time Password	11/29/2022	12/5/2022	7	Implement Test Cases
Garrett Tsumaki	Milestone 2	Registration	12/6/2022	12/12/2022	7	Revise Implementation
Garrett Tsumaki	Milestone 3	Authentication	12/6/2022	12/12/2022	7	Implement Backend
Garrett Tsumaki	Milestone 3	Authorization	12/6/2022	12/12/2022	7	Implement Backend
Garrett Tsumaki	Milestone 3	One-Time Password	12/6/2022	12/12/2022	7	Implement Backend
Garrett Tsumaki	Milestone 3	Support Milestone 3	12/13/2022	12/14/2022	2	Support remaining stories

Phase 4 (January 19, 2023 - February 28, 2023)

Milestone 4 deliverables will be delivered by the end of this phase.
These deliverables include:
- Account Recovery
- Notification System
- Usage Analysis Dashboard
- Account Deletion
- Logout
- User Management

Note that March 1, 2023 is not in this phase and is only displayed for formatting purposes in the tables

Risk

Due to unknowns for certain features that team members will encounter, scope creep with Notification System, third-party integration with frontend development, and unanticipated time off of team members, we perceive the risk level of Phase 4 for Hubba as moderate. The timeline for the frontend development being delivered is contingent upon receiving information within the frontend development timeframe from Professor Vong. If the team has not received specifications and lessons from Professor Vong in time, delays to the full deliverables are to be expected.

Tolerance

The team renders this phase as level 2 Tolerance.

The team plans to mitigate this risk through three strategies:
1. We will develop the high-level and low-level designs of each feature in the first sprint. By doing so, we will be able to confirm any unknowns as well as possible scope creep we may have encountered early on.
2. Sprint 16 will allow team members to support any stories that may have been delayed, behind, or fixing previous milestone stories. This 2 week period will provide a healthy level of tolerance prior to delivering the features.
3. All implementation should be done 2 weeks prior to February 28, 2023, allowing for adequate time for any necessary approvals needed from third-parties and/or the Client.

Team Members' Planned Activities

Quarter 1 2023 — Jett Sonoda

Assignee	Milestone	Story Name	Start Date	End Date	Duration (Days)	Activity
Jett Sonoda	Milestone 4	Account Recovery	1/19/2023	1/22/2023	4	Develop High-Level Design
Jett Sonoda	Milestone 4	Account Recovery	1/23/2023	2/1/2023	10	Develop Low-Level Design
Jett Sonoda	Milestone 4	Account Recovery	2/2/2023	2/8/2023	7	Implement Backend
Jett Sonoda	Milestone 4	Account Recovery	2/9/2023	2/15/2023	7	Implement Frontend
Jett Sonoda	Milestone 4	Account Recovery	2/16/2023	2/28/2023	13	Adjudicate Comments
Jett Sonoda	Milestone 4	Support Milestone 4	2/16/2023	2/28/2023	13	Support any remaining stories

Quarter 1 2023 — Kevin Dinh

Assignee	Milestone	Story Name	Start Date	End Date	Duration (Days)	Activity
Kevin Dinh	Milestone 4	Notification System	1/26/2023	1/28/2023	3	Develop High-Level Design
Kevin Dinh	Milestone 4	Notification System	1/29/2023	2/1/2023	4	Develop Low-Level Design
Kevin Dinh	Milestone 4	Notification System	2/2/2023	2/15/2023	14	Implement Backend
Kevin Dinh	Milestone 4	Notification System	2/16/2023	2/28/2023	13	Implement Frontend

Quarter 1 2023 — Bryan Tran

Assignee	Milestone	Story Name	Start Date	End Date	Duration (Days)	Activity
Bryan Tran	Milestone 4	Usage Analysis Dashboard	1/19/2023	1/22/2023	4	Develop High-Level Design
Bryan Tran	Milestone 4	Usage Analysis Dashboard	1/23/2023	2/1/2023	10	Develop Low-Level Design
Bryan Tran	Milestone 4	Usage Analysis Dashboard	2/2/2023	2/8/2023	7	Implement Backend
Bryan Tran	Milestone 4	Usage Analysis Dashboard	2/9/2023	2/15/2023	7	Implement Frontend
Bryan Tran	Milestone 4	Usage Analysis Dashboard	2/16/2023	2/28/2023	13	Adjudicate Comments
Bryan Tran	Milestone 4	Support Milestone 4	2/16/2023	2/28/2023	13	Support any remaining stories

Quarter 1 2023 — Darius Koroni

Assignee	Milestone	Story Name	Start Date	End Date	Duration (Days)	Activity
Darius Koroni	Milestone 4	Account Deletion	1/19/2023	1/22/2023	4	Develop High-Level Design
Darius Koroni	Milestone 4	Account Deletion	1/23/2023	2/1/2023	10	Develop Low-Level Design
Darius Koroni	Milestone 4	Account Deletion	2/2/2023	2/8/2023	7	Implement Backend
Darius Koroni	Milestone 4	Account Deletion	2/9/2023	2/15/2023	7	Implement Frontend
Darius Koroni	Milestone 4	Account Deletion	2/16/2023	2/28/2023	13	Adjudicate Comments
Darius Koroni	Milestone 4	Support Milestone 4	2/16/2023	2/28/2023	13	Support any remaining stories

Quarter 1 2023

Assignee	Milestone	Story Name	Start Date	End Date	Duration (Days)		
Tien Nguyen	Milestone 4	Logout	1/19/2023	1/22/2023	4		Develop High-Level Design
Tien Nguyen	Milestone 4	Logout	1/23/2023	2/1/2023	10		Develop Low-Level Design
Tien Nguyen	Milestone 4	Logout	2/2/2023	2/8/2023	7		Implement Backend
Tien Nguyen	Milestone 4	Logout	2/9/2023	2/15/2023	7		Implement Frontend
Tien Nguyen	Milestone 4	Logout	2/16/2023	2/28/2023	13		Adjudicate Comments
Tien Nguyen	Milestone 4	Support Milestone 4	2/16/2023	2/28/2023	13		Support any remaining stories

Quarter 1 2023

Assignee	Milestone	Story Name	Start Date	End Date	Duration (Days)		
Garrett Tsumaki	Milestone 4	User Management	1/19/2023	1/22/2023	4		Develop High-Level Design
Garrett Tsumaki	Milestone 4	User Management	1/23/2023	2/1/2023	10		Develop Low-Level Design
Garrett Tsumaki	Milestone 4	User Management	2/2/2023	2/8/2023	7		Implement Backend
Garrett Tsumaki	Milestone 4	User Management	2/9/2023	2/15/2023	7		Implement Frontend
Garrett Tsumaki	Milestone 4	User Management	2/16/2023	2/28/2023	13		Adjudicate Comments
Garrett Tsumaki	Milestone 4	Support Milestone 4	2/16/2023	2/28/2023	13		Support any remaining stories

Phase 5 (March 1, 2023 - April 30, 2023)

Milestone 5 deliverable will be delivered by the end of this phase.
These deliverables include:
- Listing Profile System
- Account System
- Discovery System
- Collaborative System
- Scheduling System

Note that May 1, 2023 is not in this phase and is only displayed for formatting purposes in the tables

Risk

Due to client feedback, unknowns for certain features that team members will encounter, scope creep with all of the deliverables for this milestone, third-party integration with frontend and backend development, and unanticipated time off of team members, we perceive the risk level of Phase 4 for Hubba as moderate. The timeline for the frontend development being delivered is contingent upon receiving information within the frontend development timeframe from Professor Vong. If the team has not received specifications and lessons from Professor Vong in time, delays to the full deliverables are to be expected.

Tolerance

The team renders this phase as level 2 Tolerance.

The team plans to mitigate this risk through three strategies:
1. We will develop the high-level and low-level designs of each feature in the first sprint. By doing so, we will be able to confirm any unknowns as well as possible scope creep we may have encountered early on.
2. Sprint 20 will allow team members to support any stories that may have been delayed, behind, or fixing previous milestone stories. This 2 week period will provide a healthy level of tolerance prior to delivering the features.
3. All implementation should be done 2 weeks prior to April 30, 2023, allowing for adequate time for any necessary approvals needed from third-parties and/or the Client.

Team Members' Planned Activities

Jett Sonoda

Assignee	Milestone	Story Name	Start Date	End Date	Duration (Days)	Activity
Jett Sonoda	Milestone 5	Listing Profile System	3/4/2023	3/8/2023	5	Develop High-Level Design
Jett Sonoda	Milestone 5	Listing Profile System	3/9/2023	3/15/2023	7	Develop LL design
Jett Sonoda	Milestone 5	Listing Profile System	4/6/2023	4/12/2023	7	Implement Backend
Jett Sonoda	Milestone 5	Listing Profile System	4/13/2023	4/19/2023	7	Implement Frontend
Jett Sonoda	Milestone 5	Listing Profile System	4/27/2023	4/30/2023	4	Adjudicate Review Comments
Jett Sonoda	Milestone 5	Support Milestone 5	4/16/2023	4/30/2023	15	Support any remaining stories

Kevin Dinh

Assignee	Milestone	Story Name	Start Date	End Date	Duration (Days)	Activity
Kevin Dinh	Milestone 5	Account System	3/1/2023	3/6/2023	6	Develop High-Level Design
Kevin Dinh	Milestone 5	Account System	3/7/2023	3/15/2023	9	Develop Low-Level Design
Kevin Dinh	Milestone 5	Account System	3/16/2023	3/30/2023	15	Implement Backend
Kevin Dinh	Milestone 5	Account System	3/31/2023	4/14/2023	15	Implement Frontend
Kevin Dinh	Milestone 5	Account System	4/15/2023	4/30/2023	16	Adjudicate Comments
Kevin Dinh	Milestone 5	Support Milestone 5	4/16/2023	4/30/2023	15	Support any remaining stories

Bryan Tran

Assignee	Milestone	Story Name	Start Date	End Date	Duration (Days)	Activity
Bryan Tran	Milestone 5	Discovery System	3/4/2023	3/8/2023	5	Develop High-Level Design
Bryan Tran	Milestone 5	Discovery System	3/9/2023	3/15/2023	7	Develop LL design
Bryan Tran	Milestone 5	Discovery System	4/6/2023	4/12/2023	7	Implement Backend
Bryan Tran	Milestone 5	Discovery System	4/13/2023	4/19/2023	7	Implement Frontend
Bryan Tran	Milestone 5	Discovery System	4/27/2023	4/30/2023	4	Adjudicate Review Comments
Bryan Tran	Milestone 5	Support Milestone 5	4/16/2023	4/30/2023	15	Support any remaining stories

Darius Koroni

Assignee	Milestone	Story Name	Start Date	End Date	Duration (Days)	Activity
Darius Koroni	Milestone 5	Collaborative System	2/16/2023	2/28/2023	13	Develop High-Level Design
Darius Koroni	Milestone 5	Collaborative System	3/9/2023	3/15/2023	7	Develop LL design
Darius Koroni	Milestone 5	Collaborative System	4/6/2023	4/12/2023	7	Implement Backend
Darius Koroni	Milestone 5	Collaborative System	4/13/2023	4/19/2023	7	Implement Frontend
Darius Koroni	Milestone 5	Collaborative System	4/27/2023	4/30/2023	4	Adjudicate Review Comments
Darius Koroni	Milestone 5	Support Milestone 5	4/16/2023	4/30/2023	15	Support any remaining stories

Gantt Chart — Tien Nguyen

Assignee	Milestone	Story Name	Start Date	End Date	Duration (Days)	Task Label
Tien Nguyen	Milestone 5	Scheduling System	2/16/2023	2/28/2023	13	Develop High-Level Design
Tien Nguyen	Milestone 5	Scheduling System	3/9/2023	3/15/2023	7	Develop LL design
Tien Nguyen	Milestone 5	Scheduling System	4/6/2023	4/12/2023	7	Implement Backend
Tien Nguyen	Milestone 5	Scheduling System	4/13/2023	4/19/2023	7	Implement Frontend
Tien Nguyen	Milestone 5	Scheduling System	4/27/2023	4/30/2023	4	Adjudicate Review Comments
Tien Nguyen	Milestone 5	Support Milestone 5	4/16/2023	4/30/2023	15	Support any remaining stories

Gantt Chart — Garrett Tsumaki

Assignee	Milestone	Story Name	Start Date	End Date	Duration (Days)	Task Label
Garrett Tsumaki	Milestone 4	Milestone 4 Revisions	2/16/2023	2/28/2023	13	Revise Any Features
Garrett Tsumaki	Milestone 6	Project Showcase System	3/16/2023	3/22/2023	7	Develop High-Level Design
Garrett Tsumaki	Milestone 6	Project Showcase System	3/23/2023	3/31/2023	9	Develop Low-Level Design
Garrett Tsumaki	Milestone 6	Project Showcase System	4/13/2023	4/19/2023	7	Implement Backend
Garrett Tsumaki	Milestone 6	Project Showcase System	4/20/2023	4/26/2023	7	Implement Frontend

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Phase 6 (April 1, 2023 - April 31, 2023)

Milestone 6 deliverable will be delivered by the end of this phase.
These deliverables include:
- Project Showcase System

Risk

Due to planned client feedback, unknowns for these features that team members will encounter, limited support, and unanticipated time off of team members, we perceive the risk level of Phase 6 for Hubba as moderate.

Tolerance

The team renders this phase as level 3 Tolerance.

The team plans to mitigate this risk through two strategies:
1. We have tasked remaining team members with supporting any of the primary assignees and their features, allowing for their support to be more flexible where needed. While these team members are not the primary assignee, they are capable of handling any client feedback for previous deliverables or the feature in the case of unexpected time off or higher required effort needed from the primary assignee.
2. Sprint 21 will allow team members to support any stories that may have been delayed, behind, or fixing previous milestone stories. This week period will provide a sufficient level of tolerance prior to delivering the features.
3. All implementation should be done one week prior to May 9, 2023, allowing for adequate time for any necessary approvals needed from third-parties and/or the Client.

Team Members' Planned Activities

Assignee	Milestone	Story Name	Start Date	End Date	Duration (Days)	M 5/1/2023	Tu 5/2/2023	W 5/3/2023	Th 5/4/2023	F 5/5/2023	Sa 5/6/2023	S 5/7/2023	M 5/8/2023	Tu 5/9/2023	
									Quarter 2 2023 Sprint 21						
Jett Sonoda	Milestone 6	Support Milestone 6	5/1/2023	5/9/2023	9										Support any remaining stories
Kevin Dinh	Milestone 6	Support Milestone 6	5/1/2023	5/9/2023	9										Support any remaining stories
Bryan Tran	Milestone 6	Support Milestone 6	5/1/2023	5/9/2023	9										Support any remaining stories
Darius Koroni	Milestone 6	Support Milestone 6	5/1/2023	5/9/2023	9										Support any remaining stories
Tien Nguyen	Milestone 6	Support Milestone 6	5/1/2023	5/9/2023	9										Support any remaining stories
Garrett Tsumaki	Milestone 6	Project Showcase System	5/1/2023	5/9/2023	9										Adjudicate Review Comments
Garrett Tsumaki	Milestone 6	Support Milestone 6	5/1/2023	5/9/2023	9										Support any remaining stories

Feasibility Assessment

The overall feasibility of Hubba to be completed by May 9, 2023 is dependent upon constant feedback and communication with the Client as well as the necessary frontend information being delivered from Professor Vong within the frontend development sprint timeframes. As stated before, if such information is withheld until the after the deliverable projected deliverable due date, deliverable due dates are subject to be delayed. However, after accounting for the risks mentioned throughout this document, Development Hell still renders this project as achievable within the given timeline.

<u>References</u>

Approved Request for Proposal Document, version 1.4 by Professor Vong, 10/01/2022