Software Plan

1. Project Overview

Project Title: Aspire

Team Members: Joel Franco Navales
John Anthony Romeo
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Date Started: September 16, 2025

Expected Completion: December 12, 2025

Short Description: Aspire is a smart career guidance recommender platform that helps users discover the most suitable career paths based on their skills, interests, and goals. Its built to address the challenge of unclear career direction among students and graduates.

2. Objectives

Main Goal: To create a working smart career guidance recommender that can help students find their best career path.

Specific Objectives:
- To integrate AI in the recommendation of career paths
- To make the app compatible to any devices

3. Scope

In-Scope Features:
- Skill Assessment Quiz
- Career Recommendation
- Learning Path Guidance
- Job Market Insights
- Profile Builder

Out-of-Scope Features:
- Automated Job Application

4. Stakeholders

Primary Users: Senior High School Graduates
Other Stakeholders: High-school and College students

5. Requirements (Simplified)

Functional Requirements:
- Working and Accurate Skill Assessment Quiz
- Working Career Recommendation and Path Guidance

Non-Functional Requirements:
- Job Market Insights
- Profile Builder

6. System Design (High-Level)

Architecture / Modules:

Technologies / Tools: AI/ML: PyTorch
Frontend: Flutter
Backend: Node.js
Database: Google Firebase

Diagram (optional): _____

7. Project Timeline

Major Milestones:
- Week 1: Project Planning
- Week 2-3: Software Design Planning
- Week 4-10: Frontend and Backend Development
- Week 11-12: Testing and Revisions

or

Gantt Chart / Task List:

Task ID	Task Name	Description	Accountable Person	Start Date	End Date
1	Project Planning	In this task, this will be the part or phase where we plan the needed things for the project like what language is to be used for the project and research on existing systems and how to implement our project and add improvements.		Tuesday, September 16, 2025	Tuesday, September 23, 2025
1.1	Define Project Scope	In this task, we define the project features and what the project does.	Romeo, John Anthony		
1.2	Background Research	In this task, we research for existing projects and what features can we add to improve it.	Romeo, John Anthony		
1.3	Identify tools to be used	In this task, we decide on what programming language will be used for the development of the software.	Ramas, Justin		
2	Software Design Planning	In this task, we will create a mockup UI design for web and mobile environments. We will also plan on how the user can interact with the software for better UX.		Wednesday, September 24, 2025	Wednesday, October 08, 2025
2.1	System Architecture Planning	In this task, we plan on how to design how the software works by defining how the frontend and the backend processes can interact to deliver the expected output.	Ramas, Justin Romeo, John Anthony		
2.2	UI Design Mockup	In this task, we will make a mockup frontent design of the software while putting all the necessesary user inputs in the right pages.	Navales, Joel Franco		
3	Frontend Development	In this task, we will create the final UI of the app/website.		Thursday, October 09, 2025	Thursday, November 27, 2025
3.1	Implement UI from Mockup	In this task, we will create the design from the mockup to the chosen programming language to be used.	Navales, Joel Franco		
3.2	Ensure Responsive Design	In this task, we will ensure that the design looks good and okay on different devices, different environments, and different screen sizes.	Navales, Joel Franco		
3.3	Integrate Frontend with Backend	In this task, we will integrate the frontend with the backend process to see if it shows the backend processes results properly without any errors.	Ramas, Justin Romeo, John Anthony		
4	Backend Development	In this task, we will create the backend processing of the app/website.		Thursday, October 09, 2025	Thursday, November 27, 2025
4.1	Build Storage	In this task, we will create a storage for all user input that will be used for processing.	Ramas, Justin		
4.2	Develop Software Engine	In this task, we will develop how does the software recommend a job based on all user input.	Ramas, Justin		
5	Testing and Revisions	In this task, we will test the app/website and fix any bugs that might show. We might also ask our classmates to test the app/website and find out how to improve the UX of the app/website.		Friday, November 28, 2025	Friday, December 12, 2025
5.1	User Testing	In this task, we may test the software on our own or ask our classmates or even our teacher to test it and ask for recommendations about the software	Romeo, John Anthony		
5.2	Debug and Refine	In this task, we will fix bugs and errors and if there are feedback, we will update the software to make it better.	Ramas, Justin Navales, Joel Franco		
5.2	Optimize UI/UX	In this task, we may change the design to make it more intuitive and user friendly based on the feedbacks from user testing.	Navales, Joel Franco		

8. Risks & Mitigation

Possible Risks:
- Inaccurate or Outdated Career Recommendation and Path Guidance

Mitigation:
- Partner with DOLE, CHED, DepEd, and trusted job portals for up-to-date data.
-Set up automated updates from labor market APIs
-Regularly review and validate recommendations with industry experts.

9. Testing & Quality Plan

What to Test:
- Accuracy of Assessment Quiz Results
- Accuracy and Validity of Career Recommendation and Path Guidance

How to Test:
- Let experts review the results of the Assessment Quiz Results
- Let experts review the results of the Career Recommendation and Path Guidance

10. Deliverables

Expected Outputs:
- Working Software that can be run in both Android and IOS.