



**TAGUIG CITY UNIVERSITY**  
**College of Information and Communication Technology**

**Computer Science Department**

**PROJECT TITLE**

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# **Module I**

## **PROJECT SCOPE MANAGEMENT PLAN**

## A. Project Description and Objectives

AIvi is your personalized AI-powered interview coach, designed to help you ace your interviews with confidence and precision.

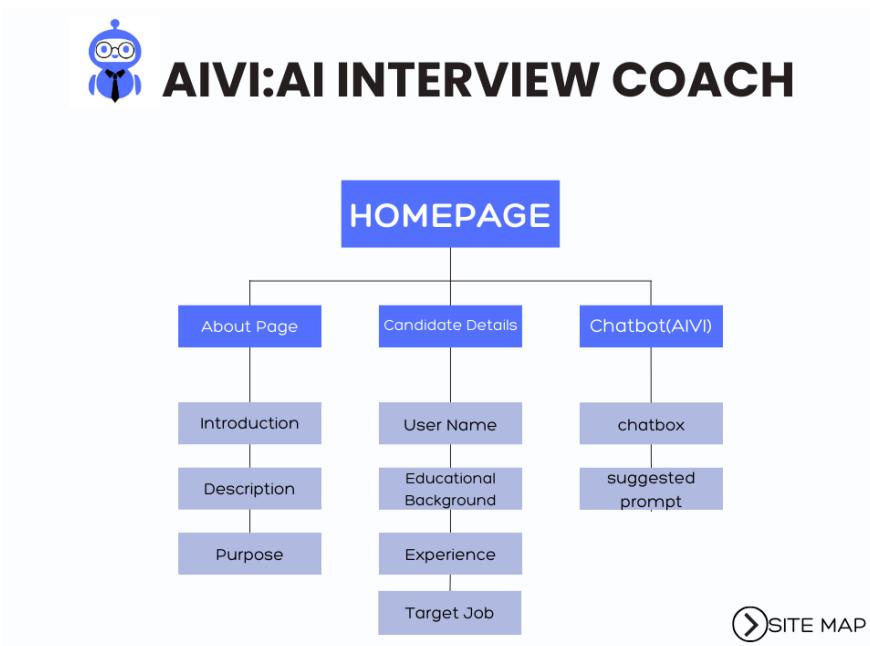
By responding to targeted interview questions and offering advice to improve performance, AIvi streamlines the interview preparation process. AIvi, created with students and job seekers in mind, aims to simplify the interview process, less stressful, and more efficient while providing users with the resources they require to succeed.

## B. Roles and Responsibilities

Photo	Name	Roles	Responsibilities
	DOROTHY ZOE L. BALMOJA	Back End Developer, Documentation	<ul style="list-style-type: none"><li>- Ensures smooth communication between the front-end and back-end of the system.</li><li>- Handles the logic and functionality behind features like the Candidate Details form and chatbot integration.</li><li>- Documents the system</li></ul>

	HANNAH VINE D. GONZALES	Quality Assurance, Documentation	<ul style="list-style-type: none"> <li>-Tests the system to ensure it works as expected and is free of bugs.</li> <li>-Documents the system</li> </ul>
	ALTHEA JASMINE J. JIMENEZ	Front End Developer, Documentation	<ul style="list-style-type: none"> <li>-Ensures the website is visually appealing, user-friendly, and responsive</li> <li>-Documents the system</li> </ul>
	MARIANNE V. ORCALES	Researcher, Documentation	<ul style="list-style-type: none"> <li>-Gathers information about effective interview techniques and trends to guide chatbot responses.</li> <li>-Documents the system</li> </ul>
	DENISE KOYASHA H. TANABE	Project Manager, Documentation	<ul style="list-style-type: none"> <li>- Ensures the timeline of the development</li> <li>-Documents the system</li> </ul>

## A. Site Map/Functional Decomposition Diagram



## B. Scope and Limitation

### Scope

AIVI: AI Interview Coach is an AI-powered application designed to assist users in preparing for job interviews. By leveraging personalized recommendations and AI-driven insights, AIVI simplifies the interview preparation process, focusing on the specific needs of students and job seekers.

Key features of AIVI include:

- **Home and About Pages:** A user-friendly interface introduces the purpose and functionality of AIVI.
- **Candidate Details Form:** Users fill out information like their education, work experience, and target job to get tailored advice.
- **Personalized Interview Tips:** Tailored advice is offered based on user inputs to enhance interview readiness.
- **Interactive Chatbot:** The chatbot delivers insights, answers interview-related questions, and provides career suggestions aligned with user profiles.

AIVI targets individuals who want to boost their confidence and performance in interviews, particularly students and job seekers transitioning into the workforce. Its primary purpose is to reduce the stress and uncertainty of interview preparation, making the process more effective and accessible.

## **Limitations**

While AIVI provides a robust platform for interview preparation, it has the following limitations:

### **1. Narrow Focus:**

- The platform is exclusively designed for interview preparation and does not extend to other career-building aspects like resume creation or networking strategies.

### **2. Dependence on User Input:**

- The accuracy and relevance of the advice depend on the quality and completeness of the information provided by the user.

### **3. Restricted Topics:**

- AIVI only addresses interview-related queries and cannot provide information or assistance beyond this scope.

### **4. Lack of Real-Time Interaction:**

- The chatbot cannot assess non-verbal communication skills such as body language, tone, or facial expressions, which are crucial for interview success.

### **5. Technological Dependence:**

- The platform relies on the Gemini API for chatbot functionality. Any disruptions or limitations in the API may impact AIVI's performance.

### **6. Static Content:**

- The advice and tips provided are based on predefined data and may not reflect rapidly changing trends or industry-specific requirements.

By focusing on its core purpose and addressing its limitations, AIVI seeks to provide users with a reliable and effective tool for mastering job interviews.

# **Module II**

## **SOFTWARE REQUIREMENT SPECIFICATION**

## A. Technology Stack

<b>HTML</b>	This is used for the structure of the website. There are 4 HTML files.
<b>CSS</b>	This enables the creation of visually appealing and user-friendly web pages. There are 4 CSS files.
<b>JavaScript</b>	This is used to create dynamic and interactive features on websites. It is an integral part of our web development. There are 4 JavaScript files.
<b>Database Management System</b>	The data is stored in local storage and saved directly on the user's device, ensuring fast access and reducing server dependency.

## B. Large Language Model LLM/AI

We used **Gemini 1.5**, a state-of-the-art LLM, for generating content and responding to queries. Gemini 1.5 is built on advanced machine learning architectures and excels at generative tasks like content creation, summarization, and conversational AI.

**Version:** Gemini 1.5 | <https://aistudio.google.com/app/apikey>

## C. What is purpose of AI/LLM

The purpose of AI and Large Language Models (LLMs) in AIVI is to enhance users' interview preparation by automating and simulating complex cognitive tasks. These tasks involve understanding user responses, reasoning through potential answers, and generating relevant follow-up questions. AI and LLMs allow AIVI to offer personalized feedback, helping users refine their communication skills, respond to both common and role-specific interview questions, and improve their performance.

# **Module III**

## **USER INTERFACE REQUIREMENT SPECIFICATION**

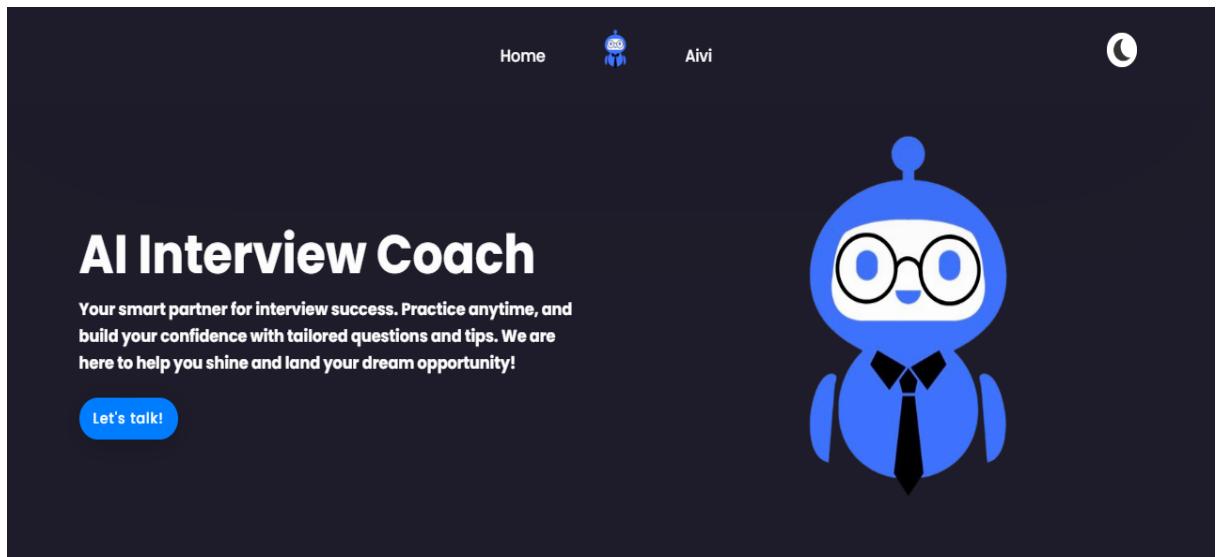
## A. Actual Screenshot and Description

Form/Page No.	4	Project Title	AIVI
Accessibility/ User Type	Students & First-time job seekers	Database Table	Local Storage

### Description:

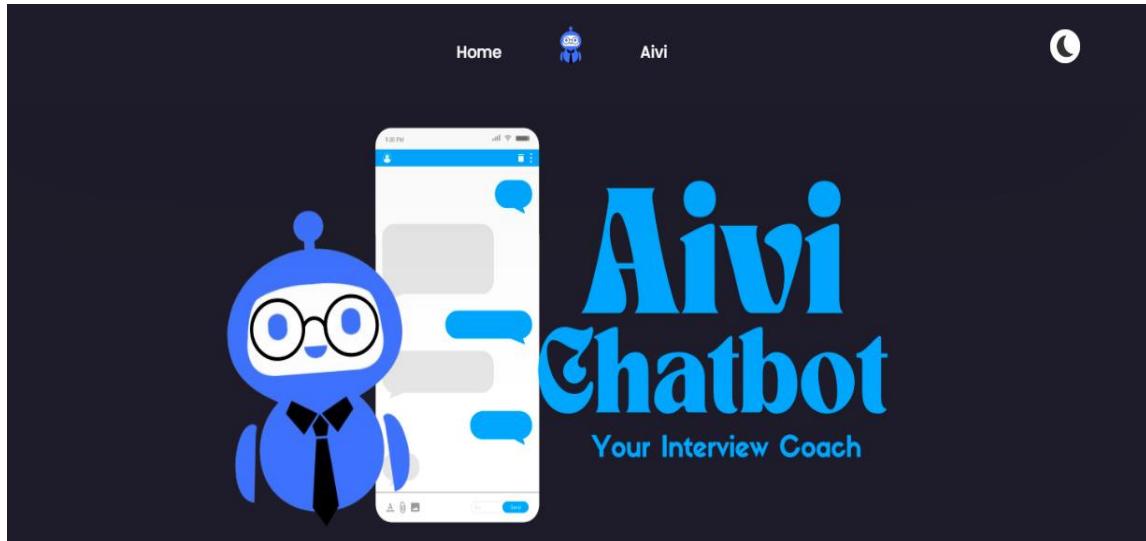
The logo of Aivi, our interview coach, is shown on the right-side landing page of our website and a brief explanation of the purpose of our system is provided next to it.

The header features "Home," "Aivi Icon," which may be clicked to reveal more details about Aivi, an "Aivi" text button that also takes users to the AI tool interview coach. Additionally, we added a Dark mode/Light mode function.



## Description:

On this page, the AIVI Chatbot is introduced as an advanced, AI-powered interview coach that helps users prepare for job interviews with confidence. AIVI offers personalized assistance to help ensure you're fully prepared for your next career opportunity.

The image shows the "Why Choose AI Interview Coach?" section of the AIVI Chatbot website. It has a dark blue background. At the top, the title "AIVI CHATBOT" is displayed in large white letters. Below the title is a detailed description of the chatbot's capabilities, mentioning natural language processing, machine learning, and its ability to refine communication skills. The section is divided into three main points, each in a blue-bordered box: "Practice at Your Own Pace", "Realistic Interview Experience", and "Build Confidence". The "Realistic Interview Experience" box includes a note about activating Windows. At the bottom right, there are "Activate Windows" and "Go to Settings to activate Windows" links.

Our AIVI chatbot is an advanced, AI-powered interview coach designed to help users prepare for job interviews with confidence and precision. Leveraging natural language processing and machine learning, it helps users refine their communication skills, practice answering common and role-specific questions, and provides insights into how to improve performance. Whether you are a first-time interviewee or a seasoned professional, AIVI acts as a personalized, assistant to ensure you are fully prepared for your next career opportunity.

### Why Choose AI Interview Coach?

- Practice at Your Own Pace: You can practice whenever you want, as many times as you need, without feeling rushed.
- Realistic Interview Experience: Our platform simulates real interview questions, so you can prepare just like in a real interview.
- Build Confidence: Regular practice helps you feel more confident and ready when the real interview comes.

Activate Windows  
Go to Settings to activate Windows.

### Description:

**"Let's Talk!" Button** redirecting to **Candidate Details Form**: The Candidate Details Form is designed for users to input their personal and professional information. It includes the following fields:

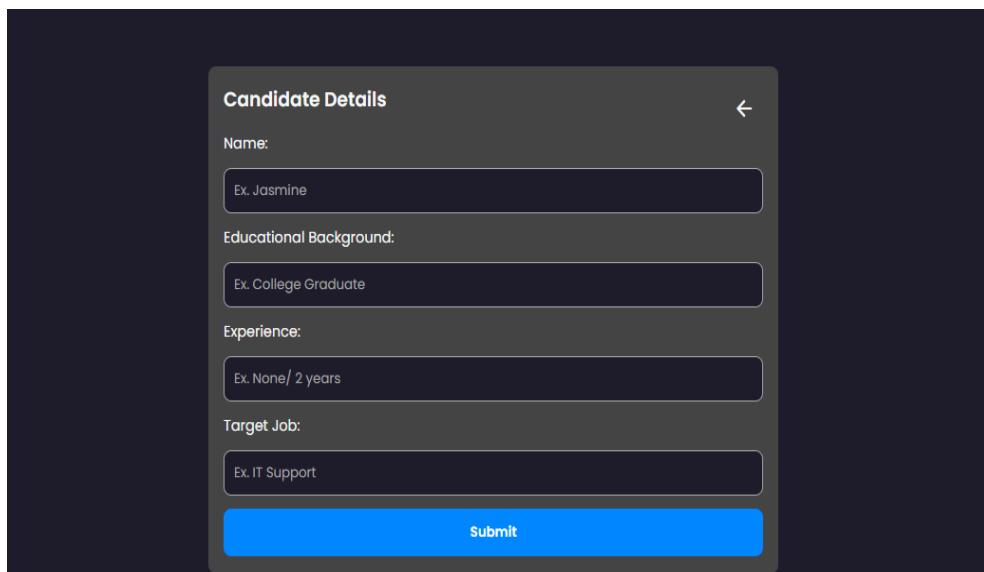
**Name:** A text field where users can enter their name

**Educational Background:** A text field for users to input their educational background.

**Experience:** A text field where users can specify their work experience.

**Target Job:** A field for users to enter the type of job they are targeting

The section also includes a Submit button to save the entered details, as well as an arrow back button for users to return to the previous page.



The image shows a mobile-style form titled "Candidate Details". It features a dark grey header with the title and a back arrow icon. Below the header are four text input fields: "Name" (placeholder: Ex. Jasmine), "Educational Background" (placeholder: Ex. College Graduate), "Experience" (placeholder: Ex. None/ 2 years), and "Target Job" (placeholder: Ex. IT Support). At the bottom is a large blue "Submit" button.

## Description:

In this part, AIVI, the interview coach, will offer feedback based on the user's filled-out Candidate Details Form. When you click on the suggested questions in the chat box, AIVI will reply appropriately. A delete icon to clear the chat box is also included. Lastly, a disclaimer below "It may display inaccurate info, including about people, so double-check its responses."

The screenshot shows a dark-themed AI interview coaching application. At the top, it says "AI Interview Coach" and "Online". On the left, there's a small robot icon. On the right, there's a home icon. The main area has a dark background with white text. It starts with a message from "Althea": "Althea, landing an IT analyst position with no prior experience will require a strong focus on showcasing transferable skills and enthusiasm. Here's a breakdown of interview preparation and suitable job targets:" followed by a list of interview preparation tips. Below this, there are four buttons: "5 Common interview questions", "How can I prepare for my interview?", "Tell me about yourself", and "Salary negotiation". At the bottom, there's a text input field with "Type your message..." placeholder text and a blue send button with a white arrow. At the very bottom, a small note reads: "Aivi may display inaccurate info, including about people, so double-check its responses." To the right of this note, there are icons for brightness and screen rotation, and a link to "Activate Windows" with the sub-instruction "Go to Settings to activate Windows".

# **APPENDICES**

## **APPENDIX A: Group Logo and Description**

AIVI is a chatbot designed to assist users in preparing for interviews by simulating real-life interview scenarios. It provides feedback, guides users on improving their responses, and offers personalized coaching to boost confidence and interview performance. AIVI aims to make interview preparation more accessible and efficient, leveraging AI to offer dynamic coaching at any time, making it easier for job seekers to refine their skills.

The logo reflects AIVI's blend of cutting-edge artificial intelligence with human-centered coaching, helping individuals succeed in their career goals.



# **AIVI CHATBOT**

## **APPENDIX B: Task/Assignment**

**Task/Assignment Table**

<b>Name (Alphabetically Arranged)</b>	<b>Role</b>	<b>Actual Project Contribution</b>
BALMOJA, DOROTHY ZOE.	BACK END	Develops the back-end specially on form input, chatbot functionality, and website logo.
GONZALES, HANNAH VINE.	QUALITY ASSURANCE	Develops the back-end specially on implementing chatbot functionality.
JIMENEZ, ALTHEA JASMINE.	FRONT END	Develops the front-end. (Home page)
ORCALES, MARIANNE.	RESEARCHER	Researched codes that can be implemented for the website.
TANABE, DENISE KOYASHA.	TEAM LEADER/ PROJECT MANAGER	Develops the front-end. (Chatbot Chat box, Website Header.)

## **APPENDIX C: Plan for Future Development**

We propose the following development roadmap to ensure continual development and improvement of Aivi, our AI Virtual Interviewer:

### **A. Enhanced AI Capabilities**

- Voice Recognition and Speech Output: Add support for voice input and output to simulate real-world interview scenarios more effectively.

### **B. AI Ethics and Fairness**

- Provide transparency in how interview evaluations are conducted.
- To make sure Aivi follows AI ethical guidelines and prevents bias in interview evaluations, conduct audits on a regular basis.

### **C. Multi-Language Support**

- Expand Aivi's capabilities to support multiple languages, allowing global accessibility and inclusivity.

### **D. Resume Builder Integration**

- **AI-Assisted Resume Creation:** Give users a simple-to-use tool for creating professional resumes that are specific to industries and employment role. **Automated Optimization:** Suggest improvements to resumes based on job descriptions and industry standards.
- **Template Library:** Offer a variety of professionally designed resume templates.
- **Real-Time Feedback:** Incorporate an AI-powered resume analysis that identifies areas for improvement, including keyword optimization, grammar, and formatting.
- **Portfolio Integration:** Allow users to link portfolios or personal projects directly within their resumes

### **E. Scalability and Deployment**

- Transition AIVI to a cloud-based architecture to handle increased user demand.
- Develop a mobile app version for on-the-go interview preparation.