



TAGUIG CITY UNIVERSITY
College of Information and Communication Technology

Computer Science Department

PROJECT TITLE

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by

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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">- Ensures smooth communication between the front-end and back-end of the system.-Handles the logic and functionality behind features like the Candidate Details form and chatbot integration.-Documents the system |

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

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

| | |
|-----------------------------------|---|
| HTML | This is used for the structure of the website. There are 4 HTML files. |
| CSS | This enables the creation of visually appealing and user-friendly web pages. There are 4 CSS files. |
| JavaScript | 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. |
| Database Management System | 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

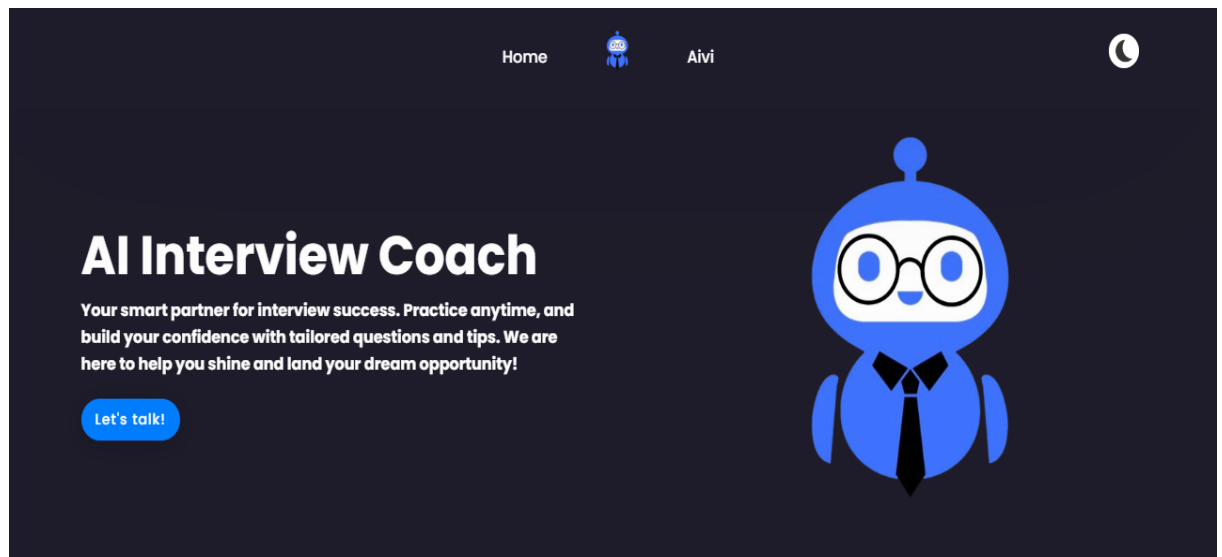
A. Actual Screenshot and Description

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

Description:

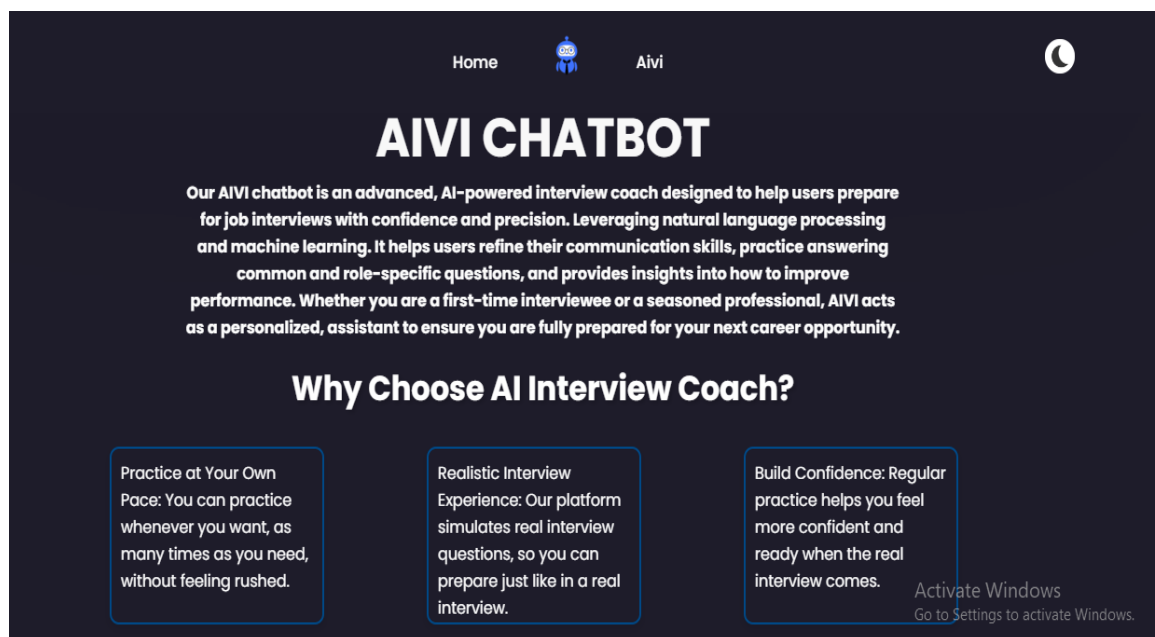
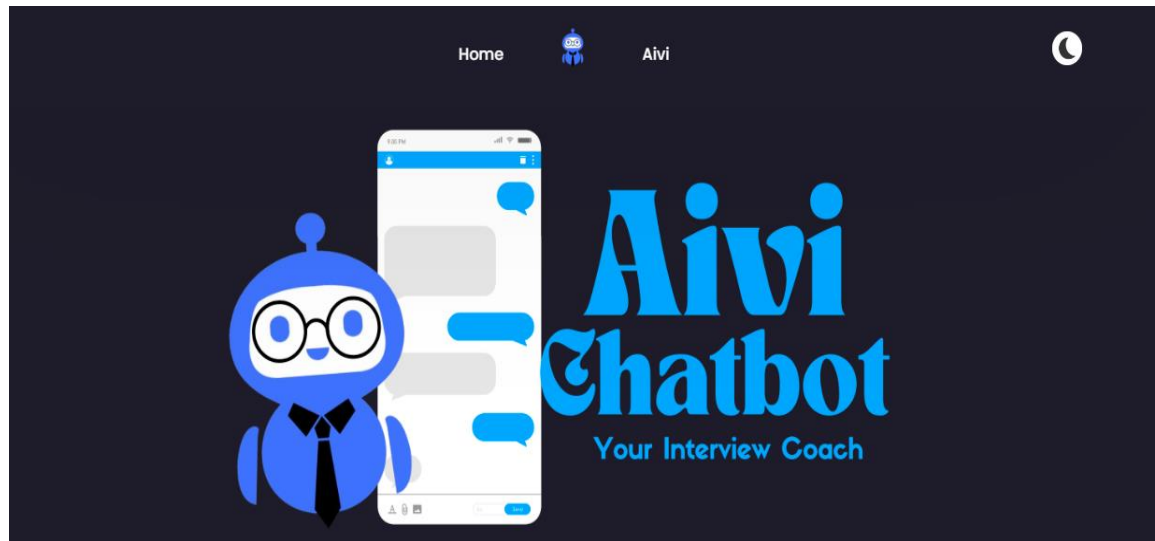
The logo of Aivi, our interview coach, is shown on the right-side landing page of our website and a brief explanation of the purpose of our system is provided next to it.

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.



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:

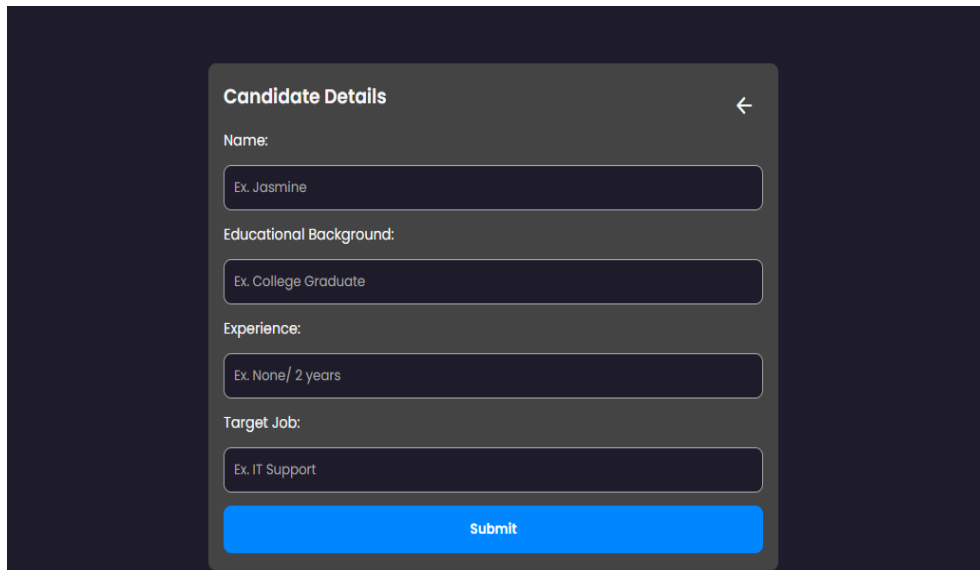
Name: A text field where users can enter their name

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

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

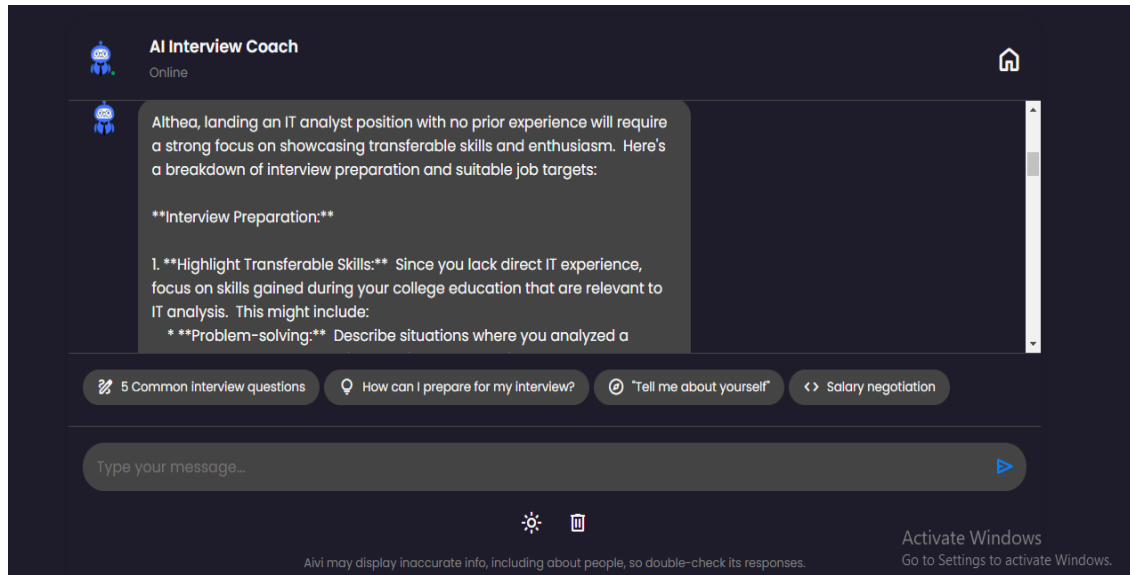
Target Job: A field for users to enter the type of job they are targeting

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.

A screenshot of a mobile application form titled "Candidate Details". The form is displayed on a dark background. It contains four text input fields with placeholder text: "Name:" with "Ex. Jasmine", "Educational Background:" with "Ex. College Graduate", "Experience:" with "Ex. None/ 2 years", and "Target Job:" with "Ex. IT Support". Below these fields is a bright blue "Submit" button. A back arrow icon is located in the top right corner of the form's container.

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."



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

| Name (Alphabetically Arranged) | Role | Actual Project Contribution |
|--|------------------------------------|---|
| 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 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.