

Experiment 1

Prepare an SRS document in line with the IEEE recommended standards for the specified Case Study. (Functional Requirements)

Functional Requirements

Certainly, here are some functional requirements for your AI-Enhanced Mock Interview System as part of the Software Requirements Specification (SRS):

1. User Registration and Authentication:

Users must be able to create accounts with unique usernames and passwords.

The system must validate and authenticate user credentials securely.

2. User Profile Management:

Users should be able to create, edit, and update their profiles, including personal information and career goals.

3. Resume Upload:

Users must have the capability to upload their resumes in various formats (e.g., PDF, Word).

The system should extract relevant information from the uploaded resumes to personalize mock interviews.

4. Customization and Preferences:

Users should be able to specify interview preferences, including the difficulty level and domain (e.g., technology, finance).

5. AI-Driven Virtual Interviewer:

The system must simulate realistic interview scenarios through an AI-driven virtual interviewer.

The virtual interviewer should ask questions based on user preferences and resume content.

6. Question Retrieval:

The system should integrate external APIs to retrieve a diverse set of interview questions.

Questions must be relevant to the user's chosen domain and difficulty level.

7. User Responses:

Users must be able to respond to interview questions posed by the virtual interviewer.

The system should record and analyze user responses.

8. Feedback Generation:

After each interview session, the system should generate detailed feedback reports.

Feedback should cover aspects such as communication skills, technical knowledge, and behavioral competencies.