

User Requirements

User Initialization:

- Users shall initiate the personality test by entering their name and age.
- The application shall request only essential information for a personalized experience.

Intuitive User Interface:

- The application shall feature an intuitive user interface.
- Navigation within the application shall be seamless, allowing users to effortlessly move without encountering any ambiguity.

Questionnaire Interaction:

- Users shall experience an engaging and interactive presentation of the personality assessment questions.
- The application shall encourage thoughtful responses by employing design elements that capture and maintain user attention throughout the questionnaire.

Progress Tracking:

- Users shall have visibility into the number of questions answered, the remaining questions.

Result Presentation:

- Upon completing the personality assessment, users shall be presented with a comprehensive report outlining their personality traits.
- The results shall be presented in a clear and understandable format, avoiding the use of technical jargon.

User Empowerment:

- The application shall empower users with actionable insights derived from their personality profile.
- The personality assessment questions shall be based on psychology traits, exploring dimensions such as emotional stability, extraversion, conscientiousness, openness, and agreeableness.

System Requirements

Cross-Platform Compatibility:

- The application shall be compatible with major operating systems, including Windows, macOS, and Linux.
- Cross-platform compatibility ensures that users can access and engage with the application seamlessly across a variety of devices.

Scalability:

- The system architecture shall be designed to scale gracefully, accommodating an expanding user base without compromising performance.
- Scalability is crucial to ensure that the application can handle increased demand during peak usage times.

Database Management:

- The application doesn't have database or any file handling system to save data for the next time, once the app close user will lose his/her data.

Software Requirements

Java Development Kit (JDK):

- The application shall be developed using Java, necessitating the availability of a compatible JDK for compilation and execution.
- Java serves as the foundational programming language for the application, providing versatility and platform independence.

JavaFX:

- JavaFX shall be utilized for developing the graphical user interface (GUI) of the application.

Non-Functional Requirements

Performance:

- The application shall respond to user interactions promptly, with minimal latency.
- Load times for questions and results shall be optimized to enhance the user experience, ensuring that the application feels responsive and efficient.

Scalability:

- The application shall handle an increasing number of concurrent users without a significant degradation in performance.
- Scalability is crucial to accommodate growth in user numbers without compromising the overall responsiveness and functionality of the application.

Usability:

- The application shall adhere to usability principles, ensuring a straightforward and intuitive user experience.
- Users shall be able to complete the personality test without requiring external assistance, fostering a positive and user-centric interaction.

Compatibility:

- The application shall be compatible with the latest versions of major operating systems.