

Quality Assurance Document of SmartEats App

- **Introduction**

- The purpose of this Quality Assurance (QA) document is to outline the procedures and standards that will be followed to ensure the quality, reliability, and usability of the SmartEats mobile application. This document will cover the QA process, testing methodologies, and responsibilities of the QA team members.

- **QA Process**

- QA will be an integral part of the development lifecycle, starting from the initial planning phase to the final deployment of the app.
- The whole team will work closely with the development team, UI/UX designers, and stakeholders to ensure that all requirements are met and the app meets the desired quality standards.
- QA activities will be carried out in an iterative manner, with each development phase undergoing thorough testing and review.

- **Testing Methodologies**

- **Unit Testing**
 - Frontend and backend components will undergo unit testing to validate individual functions and modules.
- **Integration Testing**
 - The integration of various components will be tested to ensure seamless communication and functionality.
- **Functional Testing**
 - The app's functionality will be tested against the defined requirements and user stories.
- **User Interface (UI) Testing**
 - The UI will be tested for responsiveness, consistency, and adherence to design guidelines.

- **Performance Testing**
 - The app's performance will be evaluated under various load and stress conditions to ensure optimal performance.
- Security Testing
 - The app will undergo security testing to identify and address potential vulnerabilities.
- Usability Testing
 - User feedback and usability tests will be conducted to enhance user experience.

- **QA Responsibilities**

- Project managers Oversees the entire QA process, assigns tasks, and ensures the team's adherence to quality standards.
- Team Conduct various types of testing as per the defined methodologies, record and report defects, and collaborate with the development team to resolve issues.
- UI/UX Designer Reviews the app's user interface for design consistency, usability, and adherence to UI guidelines.
- Team Ensures that all project documentation, including requirements, test cases, and user manuals, are complete and accurate.

- **Test Case Management**

- Test cases will be prepared for each functionality, scenario, or requirement defined in the project documentation.
- Test cases will include test steps, expected results, and preconditions to ensure comprehensive testing coverage.
- Test cases will be organized and managed using Notion, where testers can access, update, and track test case status.

- **Bug Tracking and Resolution**

- Defects or bugs will be logged using Notion, including detailed information such as steps to reproduce, severity, and priority.

- The development team will address and resolve the logged defects promptly.
- QA will verify the fixes and retest the affected areas to ensure the resolution's effectiveness.

Test Automation

- Selective test cases will be automated to improve testing efficiency and facilitate repetitive testing tasks.
- Test automation tools like Jest will be utilized for frontend testing, and other appropriate tools will be employed for backend testing.
- **Continuous Integration and Deployment (CI/CD)**
 - Continuous integration will be implemented to automatically build and test the app whenever code changes are committed to the version control system.
 - Continuous deployment will be set up to deploy successful builds to the staging environment for further testing.
- **Acceptance Testing**
 - Before the app's release, stakeholders will conduct acceptance testing to ensure that all requirements are met and that the app meets their expectations.
- **QA SignOff**
 - QA signoff will be provided after thorough testing and validation, indicating that the app is ready for deployment.
 - The team will ensure that all critical issues have been addressed before providing the signoff.

Documentation

- This QA document will be maintained and updated throughout the development process to reflect any changes in the QA process or testing methodologies.

Conclusion

- By adhering to the QA processes and methodologies outlined in this document, we are committed to delivering a high quality and reliable SmartEats mobile application that meets the expectations of our stakeholders and users.