Scope and Methodology

Scope

This section outlines the scope of testing for the web application, focusing on ensuring functionality, performance, security, and usability. Testing was conducted on the core modules, including user authentication, dashboard, data management, and reporting features. Both front-end and back-end components were evaluated across multiple browsers and devices to ensure cross-platform compatibility.

- User Registration and Authentication
- Dashboard and Navigation Components
- Data Input, Processing, and Output functions
- Role-based Access Controls
- Reporting and Export features
- Mobile and Desktop Responsiveness
- API Endpoints (where applicable)

Areas excluded from this testing include third-party integrated services, future roadmap features, and non-core UI elements not directly tied to primary user workflows.

Methodology

The testing methodology combined manual and automated approaches to ensure thorough evaluation. Testing phases included:

- **Requirement Analysis:** Test scenarios were designed based on functional and non-functional requirements.
- **Test Case Development:** Manual test cases and automated test scripts were created for key functionalities.
- **Execution:** Test cases were executed across supported browsers (Chrome, Firefox, Edge, Safari) and responsive devices (mobile and desktop).
- **Defect Tracking:** Identified issues were logged and tracked using a centralized system until closure.
- **Regression Testing:** Repeated execution of relevant tests after code updates to confirm issue resolution and stability.
- **Reporting:** Comprehensive test reports were generated detailing results and recommendations.

Industry best practices, such as OWASP for security, and W3C guidelines for accessibility, were referenced throughout the process.