# TEST PLAN FOR AUTOMATION TESTING

**Project**: Viva Glint

**Automation Test Plan Version**: 1.0

**Objective**: To outline the strategy, scope, tools, and processes for automation testing in the Glint project to ensure quality, reduce manual efforts, and increase test coverage and reliability.

SCOPE

**In Scope**: Automation testing for key functionalities and modules of the Glint project.

* Dashboard and Reporting functionalities
* Report Exports

**Out of Scope**:

* ODS / Performance / 360 functionalities

OBJECTIVES

* Automate critical test cases to achieve high test coverage for the Glint platform.
* Improve efficiency by reducing manual regression testing efforts.
* Integrate automated tests with CI/CD pipelines for quick feedback on build quality.

TEST STRATEGY

**Automation Framework:** Utilize a Page object model (POM) framework using Selenium WebDriver with TestNG as the testing framework.

**Programming Language:** Java

**CI/CD Integration:** GitHub for continuous integration and automated test execution.

**Reporting Tool:** Extent Reports and TestNG for enhanced reporting and result visualization.

TEST ENVIRONMENT

**Operating System**: Windows 10, macOS

**Browsers:** Chrome (latest version), Firefox, Microsoft Edge

**Environment Configurations:** Viva glint QA environment with test data

TEST DELIVERABLES

* Automated Test Scripts for Reporting modules in scope.
* Test Execution Reports
* Defect Reports from failed test cases.

TEST APPROACH

**Test Case Selection**: Smoke test cases

**Execution Schedule**: Automated tests will be executed on GitHub as part of the CI pipeline.

**Script Maintenance**: Update and maintain scripts as the application evolves to ensure reliability and relevance.

TEST EXECUTION PLAN

**Execution Cycles**: Regression runs and post-build validations.

**Trigger Conditions**: Tests triggered by new code deployments or scheduled jobs.

**Test Reporting**: Use reports to track and analyse test coverage, failure trends, and areas requiring manual follow-up.

SCHEDULE

**Milestone 1**: Initial framework setup and creation of smoke test scripts [Expected Date].

**Milestone 2**: Automated regression coverage for primary flows [Expected Date].

**Milestone 3**: Full suite coverage with test maintenance and optimization [Expected Date].

RISKS AND MITIGATIONS

**Risk**: Flaky test scripts due to UI changes.

**Mitigation**: Utilize stable locators and maintain regular script updates.

**Risk**: Insufficient test data for automated runs.

**Mitigation**: Collaborate with data management teams to ensure data availability.

ENTRY AND EXIT CRITERIA

**Entry Criteria**: Stable build availability, automated test environment readiness, and finalized test cases.

**Exit Criteria**: All prioritized automated test cases executed, identified defects logged, and regression suite passes within acceptable limits.

APPROVAL

Reviewed By:

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