PortfolioPro – Feasibility Study Report

**Project Title: Testing of PortfolioPro Web Application**

**Prepared By: Ctrl + Alt + Defeat**

**Tools Used: Java, Selenium WebDriver, TestNG, Eclipse IDE**

**Date: 08-07-2025**

**1. Project Overview**

PortfolioPro is a web-based digital portfolio builder that helps users create, personalize, and share professional portfolios. The application includes:

* Portfolio Creation Wizard (Basic Info → Contact → Content → Image → Theme)
* Portfolio Page (Final view with edit, copy, and share capabilities)

Before manual and regression testing, a complete end-to-end automation test was conducted using Java + Selenium + TestNG via Eclipse IDE. The successful pass of this test allowed the team to proceed with full-scale test execution of 48 detailed cases.

**2. Purpose of the Feasibility Study**

The aim of this feasibility report is to evaluate the readiness and practicality of conducting structured testing for the PortfolioPro project. It assesses:

* Technical compatibility of the tools and frameworks
* Resource and data availability
* Risk areas and mitigation strategies
* Automation framework scalability and usefulness

**3. Scope of Testing**

**In-Scope:**

* Functional Testing (all form pages and Portfolio Page)
* Input validations, navigation, image uploads, and theme selection
* Regression Testing of critical flows
* UI & UX consistency
* Data rendering and integrity checks

**4. Framework & Tools Used**

You implemented a robust automation setup using:

|  |  |
| --- | --- |
| **Component** | **Details** |
| Language | Java |
| Automation | Selenium WebDriver |
| Testing | TestNG Framework |
| IDE | Eclipse |
| Execution | Local environment |
| Framework | Page Object Model (POM) |
| Reporting | TestNG HTML/XML reports |

**Features included:**

* Dynamic locators
* Page-wise modular scripts
* Screenshot capture on failures
* Assertion validations for fields, transitions, and theme previews

**5. Testing Summary**

* 48 test cases executed
* Covered all critical modules and edge cases
* Manual + Automation blended execution
* RTM and Defect Logs prepared

**6. Resources & Environments**

|  |  |
| --- | --- |
| **Parameter** | **Feasibility Verdict** |
| Tooling | Java, Selenium, Eclipse all stable and supported |
| Test Data | Dummy data sets reset for each cycle |
| Environments | Chrome, Edge tested for UI compatibility |
| Test Planning Artifacts | Test Plan, Test Scenarios, RTM, and Reports ready |

**7. Risk Assessment**

|  |  |
| --- | --- |
| **Risk Area** | **Mitigation Strategy** |
| UI layout inconsistencies | Manual validation + snapshot assertions |
| FRD changes during sprint | Agile syncs with BAs and dev team |
| Delayed test data availability | Used mock data and refresh scripts |
| Unstable builds | Smoke test before full execution |

**8. Conclusion**

The end-to-end test success followed by detailed execution of 48 test cases confirms that the PortfolioPro testing effort is highly feasible. The use of Java + Selenium + TestNG ensures scalable automation and structured validations.

This process proves not only the application’s readiness but also the testing team’s preparedness to handle both functional and future CI/CD-integrated pipelines. All artifacts like RTM, Defect Logs, and Summary Reports are in place, supporting the conclusion of a successful and practical testing implementation.