BDD Framework Analysis Report

Project: Team02_SeleniumNinjas

Overall Score: 59/100

Feature Files Analysis

Metric	Value
Count	20
Quality Score	66/100
Issues	• Missing Feature description in 02_Home.feature • Consider using Background for common steps in 06_Logout.feature • Missing tags on 38 scenarios (Adding tags improves readability and filtering) • Missing 34% in Feature Files score due to: • • Missing scenario tags (-10 points): Add descriptive tags to all scenarios • • Missing Background sections (-5 points): Use Background for common steps • • Missing Feature descriptions (-5 points): Add clear Feature descriptions

Step Definitions Analysis

Metric	Value
Count	19
Quality Score	66/100
Issues	• Too many step definitions in LoginPageSteps.java, consider refactoring

Framework Structure

Component	Status
Page Objects	N/A
Test Data	N/A

Config Files	N/A

Selenium Implementation

Wait Strategy	0%
Explicit Waits	✗ Missing
Custom Wait Conditions	✗ Missing
Screenshot Capability	✗ Missing
WebDriver Management	✗ Missing
Actions Class Usage	✗ Missing
JavaScript Executor	✗ Missing

Browser Execution Analysis

Browser Compatibility	0%
Grid Support	Missing
Parallel Execution	Missing
Retry Mechanism	Missing

Test Coverage Analysis

Step definitions to features ratio: 0.95

Coverage Loss Details:

Missing 34% in Test Coverage due to:
• Feature files quality issues (-24%): Missing tags, examples, or proper descriptions
• Step definitions quality issues (-24%): Limited parameterization or too many steps in single files
• Low scenario quality (-35%): Feature scenarios lack proper structure or clarity

Recommendations

1. Improve feature file quality by adding proper descriptions and tags

2. Enhance step definitions with better parameterization

3. Organize project structure into standard BDD directories

4. Implement better wait strategies in Selenium tests

5. Consider implementing parallel test execution

6. Implement base page pattern for better maintainability

Team02 Project Analysis

Project Structure:

• Maven-based Selenium test automation project
• TestNG configuration present
• Organized in standard Maven directory layout

Implementation Details:

• Step definitions located in stepDefinitions folder
• Uses TestNG for test execution framework
• Selenium WebDriver implementation found