# **BDD Framework Analysis Report**

Project: Team02\_SeleniumNinjas

Overall Score: 61/100

# **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
Unimplemented Steps	13
Issues	Too many step definitions in LoginPageSteps.java, consider refactoring

# **Selenium Implementation**

Wait Strategy	0%
Explicit Waits	X Missing
Custom Wait Conditions	X Missing

Thread.sleep Usage	✓ Not Found
Screenshot Capability	X Missing
Screenshot in Hooks	√ Found
WebDriver Management	√ Found
Actions Class Usage	X Missing
JavaScript Executor	X Missing
PicoContainer DI	X 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

# **Project Analysis & Enhancers**

# **Page Objects Analysis**

Metric	Status
Total Page Objects	0
Base Page Pattern	x Missing
Proper Encapsulation	x Missing
Uniform Locators	x Mixed Usage
Assertions in Pages	✓ Not Found

### **Project Strengths:**

## **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

### **Project Enhancers:**

Feature	Status
TestNG Config	X Not Found
Page Factory	X Not Found
Logging	X Not Found
Data Driven Testing	X Not Found
Custom Reporting	X Not Found