AUTOMATION FEASIBILITY REPORT – ZigWheels

# Team Details

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| --- | --- | --- |
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# 1. Introduction

This report evaluates the feasibility of automating functional test cases for the ZigWheels.com  
website using Selenium WebDriver with Java. It identifies the scope, limitations, and benefits of  
automation for various workflows on the site.

# 2. Website Overview

ZigWheels.com is an automotive portal that provides information on cars, bikes, reviews,  
comparisons, and pricing. It includes dynamic content, search filters, forms, and interactive UI  
elements.

# 3. Automation Scope

Feasible for Automation:  
• Search Functionality (e.g., searching for cars or bikes)  
• Navigation Menus and Page Redirections  
• Form Submissions (e.g., contact forms, booking test drives)  
• Filtering and Sorting of listings  
• Login/Signup (if applicable)  
• Data Extraction for comparisons and reviews

Not Feasible / Challenging:  
• CAPTCHA-protected pages  
• Dynamic ads and third-party widgets  
• Real-time chat or support widgets

# 4. Tools & Technologies

• Selenium WebDriver – for browser automation  
• Java – programming language  
• TestNG / Junit,Cucumber – test framework  
• Maven – build and dependency management  
• ExtentReports / Allure – reporting  
• GitHub – version control

# 5. Benefits of Automation

•Faster regression testing  
•Improved test coverage  
•Reusability of test scripts  
•Reduced manual effort and human error

# 6. Risks & Limitations

•Frequent UI changes may break locators  
•Dynamic content may require synchronization (waits)  
•Initial setup time and learning curve

# 7. Conclusion

Automation of ZigWheels.com using Selenium in Java is feasible and beneficial for most functional  
areas. A well-structured framework and proper locator strategy will ensure maintainability and  
scalability of the test suite.

# Automation Feasibility Checklist

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| --- | --- |
| Workflow | Feasibility |
| Search Functionality | Feasible |
| Navigation Menus and Page Redirections | Feasible |
| Form Submissions | Feasible |
| Filtering and Sorting of listings | Feasible |
| Login/Signup | Feasible |
| Data Extraction for comparisons and reviews | Feasible |
| CAPTCHA-protected pages | Not Feasible / Challenging |
| Dynamic ads and third-party widgets | Not Feasible / Challenging |
| Real-time chat or support widgets | Not Feasible / Challenging |