**MAGICBRICKS WEB APPLICATION FOR AUTOMATED**

**TESTING REPORT**

Name:T.kumuthavalli

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**ABSTRACTION:**

The MagicBricks Automated Testing Project is aimed at validating the key functionalities of the MagicBricks property purchase platform to ensure reliability, usability, and accuracy. As the platform plays a crucial role in enabling users to search, evaluate, and invest in properties, it is essential that the application delivers seamless performance across its core features. The project primarily focuses on validating modules such as **Login, Signup, Property Search, EMI Calculator, and Rates & Trends to view the top five localities**, which together form the backbone of the user experience.

A structured testing approach was followed, beginning with requirement analysis and user story review, followed by the design of comprehensive test scenarios and test cases. Automation tools such as **Selenium, Cucumber, and TestNG** were employed to execute the tests efficiently, enabling quick feedback and reducing manual effort. Defects identified during execution were logged and documented systematically for resolution. To ensure completeness and requirement coverage, a **Requirement Traceability Matrix (RTM)** was maintained, mapping every requirement to its corresponding test case.

This project demonstrates the effectiveness of **automated testing** in improving test accuracy, reducing execution time, and ensuring consistent results. By validating both positive and negative workflows across different modules, including the ability to display property rates and trends for the top five localities, the testing effort assures stakeholders that the MagicBricks application meets its functional requirements and can be confidently released as a **stable, reliable, and user-friendly platform.**

**PURPOSE:**

The purpose of this project is to build an automated testing framework for validating the critical functionalities of the MagicBricks real estate platform. By using Java, Selenium WebDriver, Cucumber (BDD), TestNG, and ExtentReports, the project aims to:

* Ensure that key user workflows (property search, filters, loan calculators, locality trends, etc.) function as expected.
* Provide a maintainable and reusable automation suite through the Page Object Model (POM) design pattern.
* Enable test execution across different environments with easy configuration.
* Generate clear and professional test reports for better tracking of execution results.

**OUTCOME:**

The outcome of this project is a **robust, industry-standard automation framework** that:

* Automates repetitive manual testing for the MagicBricks website.
* Provides **Cucumber and Extent reports** for execution visibility and stakeholder communication.
* Validates **rates, trends, and top 5 localities** to ensure correct data representation for users.
* Increases test coverage and reduces overall regression testing time.
* Serves as a reusable foundation for future test cases and scalable automation.

**PURPOSE AND OUTCOME FOR EACH TEST CASE:**

## SCENARIO 1: LOGIN – VALID CREDENTIALS

## Click here to see:

## <https://github.com/Kumutha-20/MagicBricks-Testing-Project/blob/master/src/test/resources/feartures/profile.feature>

**Ts\_MB\_02 – Enter valid mobile number**

* **Purpose:** To verify that a valid registered mobile number is accepted by the system.
* **Outcome:** Mobile number is accepted without errors, and the flow proceeds.

**Ts\_MB\_02 – Captcha validation (valid input)**

* **Purpose:** To ensure login requires correct captcha entry.
* **Outcome:** Login proceeds when captcha is entered correctly.

**Ts\_MB\_02 – OTP verification (valid OTP)**

* **Purpose:** To validate that login succeeds with a correct OTP.
* **Outcome:** Login successful and home page displayed.

## SCENARIO 2: LOGIN – INVALID CREDENTIALS

## Click here:

## <https://github.com/Kumutha-20/MagicBricks-Testing-Project/blob/master/src/test/resources/feartures/invalidlogin.feature>

**Ts\_MB\_03\_ – Invalid mobile number**

* **Purpose:** To confirm login fails for invalid mobile numbers.
* **Outcome:** Error “Invalid mobile number” is displayed.

**Ts\_MB\_03 – Blank credentials**

* **Purpose:** To verify login is blocked when no credentials are entered.
* **Outcome:** Error “Phone number required” is displayed.

**Ts\_MB\_03 – Missing captcha**

* **Purpose:** To confirm login fails when captcha is not entered.
* **Outcome:** Error “Invalid Captcha” is displayed.

## SCENARIO 3: PROPERTY SEARCH – VALID INPUT

## Click here to see:

## <https://github.com/Kumutha-20/MagicBricks-Testing-Project/blob/master/src/test/resources/feartures/searchhome.feature>

**Ts\_MB\_04 – Location filter with valid input**

* **Purpose:** To confirm that valid location input returns correct property listings.
* **Outcome:** Property listings in the given location (e.g., Mumbai) are displayed.

**Ts\_MB\_06 – Apply Residential filter**

* **Purpose:** To confirm that applying the Residential filter shows relevant property types only.
* **Outcome:** Only House/Villa properties are displayed.

**Ts\_MB\_07– Apply 3BHK filter**

* **Purpose:** To verify that the 3BHK filter displays only 3BHK properties.
* **Outcome:** Only 3BHK properties are displayed.

**Ts\_MB\_07– Apply multiple BHK filters**

* **Purpose:** To ensure multiple filters (2BHK & 3BHK) return correct results.
* **Outcome:** Only 2BHK and 3BHK properties are displayed.

**Ts\_MB\_08– Price filter active**

* **Purpose:** To verify that the price range filter shows only properties in the defined range.

**Outcome:** Properties within the selected price range are displayed

## SCENARIO 4: PROPERTY SEARCH – INVALID INPUT

## Click here to see:

## <https://github.com/Kumutha-20/MagicBricks-Testing-Project/blob/master/src/test/resources/feartures/invalidsearchlocation.feature>

**Ts\_MB\_05– Blank location**

* **Purpose:** To verify that blank location input does not proceed.
* **Outcome:** Error message displayed.

**Ts\_MB\_05– Invalid location**

* **Purpose:** To ensure invalid location input is handled gracefully.
* **Outcome:** Error “Please enter a valid location/project” is displayed. (Defect noted).

## SCENARIO 5: SHORTLIST – VALID CASES

## Click here to see:

## <https://github.com/Kumutha-20/MagicBricks-Testing-Project/blob/master/src/test/resources/feartures/shortlistproperty.feature>

**Ts\_MB\_09– Sort filter visible**

* **Purpose:** To validate sorting option (Rate per Sq.Ft High → Low).
* **Outcome:** Properties are sorted correctly.

**Ts\_MB\_10 – Add property to shortlist**

* **Purpose:** To check that users can shortlist properties successfully.
* **Outcome:** Property is added to shortlist.

**Ts\_MB\_10 – View shortlisted properties**

* **Purpose:** To validate that shortlisted properties are displayed.
* **Outcome:** Property is visible in the shortlist.

## SCENARIO 6: EMI CALCULATOR – VALID CASES

## Click here to see:

## <https://github.com/Kumutha-20/MagicBricks-Testing-Project/blob/master/src/test/resources/feartures/validemicalculator.feature>

**Ts\_MB\_12 – Validate EMI Calculator page**

* **Purpose:** To confirm that the EMI Calculator page loads properly.
* **Outcome:** EMI Calculator page is displayed.

**Ts\_MB\_13– Calculate EMI**

* **Purpose:** To ensure EMI is calculated correctly with valid inputs.
* **Outcome:** EMI value is displayed accurately.

## SCENARIO 7: EMI CALCULATOR

## Click here to see:

## <http://github.com/Kumutha-20/MagicBricks-Testing-Project/blob/master/src/test/resources/feartures/invalidemicalculator.feature>

**Ts\_MB\_14– Calculate EMI**

* **Purpose:** To check EMI calculation invalid amount.
* **Outcome:** EMI is not calculated.

**Ts\_MB\_15– Calculate EMI**

* **Purpose:** To check EMI calculation invalid interest rate.
* **Outcome:** EMI is not calculated.

## SCENARIO 8: RATES & TRENDS – VIEW TOP 5 LOCALITIES

## Click here to see:

## <https://github.com/Kumutha-20/MagicBricks-Testing-Project/blob/master/src/test/resources/feartures/invalidsearchlocation.feature>

**Ts\_MB\_16– Display top 5 localities**

* **Purpose:** To ensure that the system displays property rates and market trends for the top five localities.
* **Outcome:** The top 5 localities are displayed with their respective rate and trend details.

**Ts\_MB\_17– Display top 5 localities**

* **Purpose:** To ensure that the system displays property rates and market trends for blank city.
* **Outcome:** The top 5 localities are displayed with their respective rate and trend details.

CONCLUSION:

The automated testing of the MagicBricks application validated all major modules including Homepage, Login, Search, Filters, Shortlist, EMI Calculator, Rates & Trends, and Profile. Most test cases passed successfully, with a few defects noted in negative scenarios. Overall, the project confirmed that the application is functionally stable, reliable, and ready for release with minor improvements.