# Daily QA Learning Report – Day 4

**Topic:** Frontend Automation Testing (Playwright)

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**Project:** School Management System (SMS)

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## Objectives of the Day

1  Understand frontend automation testing concepts

2  Learn Playwright tool setup and usage

3  Automate SMS login functionality

4  Understand locators and assertions

5  Connect manual testing with automation testing

## Topics Covered

1  Introduction to frontend automation testing

2  Why automation is important in QA

3  Overview of Playwright tool

4  Locator strategies (ID, Name, CSS, XPath)

5  Assertions and validations

6  Manual login flow understanding

7  Automating SMS login with Playwright

## Practical Learning

1  Manual analysis of SMS login page

2  Identifying username, password, and login button locators

3  Writing Playwright test for valid login

4  Writing negative login test with invalid credentials

5  Running tests and viewing reports

## Key Learnings

1  Automation scripts follow the same steps as manual testing

2  Correct locator selection is critical for stable tests

3  Assertions are mandatory to validate test results

4  Frontend automation is best suited for repetitive and stable features

5  Playwright is faster and easier compared to traditional tools

## Conclusion

Day 4 focused on transitioning from manual testing to frontend automation testing. By learning Playwright and automating the SMS login functionality, a strong foundation for UI automation testing was established. This knowledge will be extended further with Page Object Model and advanced automation practices in upcoming sessions.