**APOLLO 24/7 TESTING APPLICATION REPORT**

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**Project:** Apollo 24/7 – Functional Testing  
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**Abstraction**

The automated testing project validated end-to-end workflows of the Apollo 24/7 healthcare application. Testing was performed using **Cucumber (BDD)** integrated with **Extent Reports** for detailed execution tracking. The scope included login authentication, medicine ordering, medicine search functionality, cart operations, address management, profile addition, and secure checkout. Both detailed test cases and consolidated scenario outcomes were analyzed to generate this report.

**Purpose & Outcome of Whole Application Testing**

**Purpose:**

1. To validate the critical healthcare workflows like login, medicine purchase, search, cart, and checkout.
2. To confirm that the application enforces validation rules for incorrect inputs.
3. To ensure smooth navigation between modules with secure and stable flows.
4. To verify overall readiness for production by minimizing risks in patient and medicine management services.

**Outcome:**

1. The system workflows were successfully validated across login, medicine order, address management, and checkout.
2. **Confidence Level: High** – The application is stable, secure, and user-friendly, meeting functional requirements.

**Purpose & Outcome of Each Scenario with Test Case Details**

**Scenario 1: TS\_LAUNCH\_01 – Launching the Browser**

**Feature File:** https://github.com/THENMOZHI2/Apollo247TestingApp/blob/main/src/test/resources/Features/1\_Launch.feature  
**Purpose:** To verify that Apollo 24/7 loads correctly when launched in the browser.  
**Outcome:** Browser opened successfully and the Apollo home page was displayed.

**Scenario 2: TS\_LOGIN\_01 – Verification of login failure with invalid mobile number**

**Feature File:** https://github.com/THENMOZHI2/Apollo247TestingApp/blob/main/src/test/resources/Features/2\_Login\_ValidphoneOtp.feature  
**Purpose:** To validate that login attempts with invalid mobile numbers are blocked.  
**Outcome:** The system displayed an error message *"Invalid mobile number"* and prevented login.

**Scenario 3: TS\_LOGIN\_02 – Verification of login failure with invalid OTP**

**Feature File:** https://github.com/THENMOZHI2/Apollo247TestingApp/blob/main/src/test/resources/Features/2\_Login\_ValidphoneOtp.feature  
**Purpose:** To ensure OTP authentication rejects incorrect OTP entries.  
**Outcome:** System displayed *"Invalid OTP"* message, login attempt was blocked.

**Scenario 4: TS\_LOGIN\_03 – Login successfully with valid credentials**

**Feature File:** https://github.com/THENMOZHI2/Apollo247TestingApp/blob/main/src/test/resources/Features/2\_Login\_ValidphoneOtp.feature  
**Purpose:** To validate the positive login flow with correct mobile number and OTP.  
**Outcome:** User logged in successfully and redirected to the Apollo home page.

**Scenario 5: TS\_MEDICINE\_01 – Verify Buy Medicines tab opens successfully**

**Feature File:** https://github.com/THENMOZHI2/Apollo247TestingApp/blob/main/src/test/resources/Features/3\_BuyMedicineTab.feature  
**Purpose:** To ensure users can access the "Buy Medicines & Essentials" page.  
**Outcome:** Buy Medicines page opened without errors and displayed available products.

**Scenario 6: TS\_MEDICINE\_02 – Search with a very long/invalid input**

**Feature File:** https://github.com/THENMOZHI2/Apollo247TestingApp/blob/main/src/test/resources/Features/4\_InvalidMedicineSearch.feature  
**Purpose:** To validate that numeric or oversized inputs are restricted in the search bar.  
**Outcome:** The system displayed appropriate error messages and blocked invalid search queries.

**Scenario 7: TS\_MEDICINE\_03 – Search with invalid characters**

**Feature File:** https://github.com/THENMOZHI2/Apollo247TestingApp/blob/main/src/test/resources/Features/4\_InvalidMedicineSearch.feature  
**Purpose:** To ensure search with special characters is not allowed.  
**Outcome:** System displayed an error message, preventing invalid search.

**Scenario 8: TS\_MEDICINE\_04 – Search for out-of-stock medicine**

**Feature File:** https://github.com/THENMOZHI2/Apollo247TestingApp/blob/main/src/test/resources/Features/4\_InvalidMedicineSearch.feature  
**Purpose:** To validate inventory checks for medicines marked as out of stock.  
**Outcome:** When applying "In-stock" filter, the system displayed an error for unavailable medicine.

**Scenario 9: TS\_MEDICINE\_05 – Search with valid medicine name**

**Feature File:** **https://github.com/THENMOZHI2/Apollo247TestingApp/blob/main/src/test/resources/Features/5\_ValidMedicineSearch.feature**   
**Purpose:** To confirm valid medicines are searchable in the application.  
**Outcome:** Valid medicine search returned accurate results successfully.

**Scenario 10: TS\_CART\_01 – Search and add medicine to cart with filters**

**Feature File:** **https://github.com/THENMOZHI2/Apollo247TestingApp/blob/main/src/test/resources/Features/5\_ValidMedicineSearch.feature**   
**Purpose:** To ensure medicines can be added to the cart and quantities adjusted.  
**Outcome:** Product was added, quantity increased by 2, and "My Cart" page opened correctly.

**Scenario 11: TS\_ADDRESS\_01 – Address Management during checkout**

**Feature File:** https://github.com/THENMOZHI2/Apollo247TestingApp/blob/main/src/test/resources/Features/6\_AddressInvalid.feature  
**Purpose:** To validate adding a new delivery address with complete details.  
**Outcome:** New address saved successfully and redirected back to the cart page.

**Scenario 12: TS\_PROFILE\_01 – Invalid input validation for profile addition**

**Feature File:** https://github.com/THENMOZHI2/Apollo247TestingApp/blob/main/src/test/resources/Features/7\_PatientForm.feature  
**Purpose:** To ensure invalid profile details (name, DOB, email) are rejected.  
**Outcome:** Profile addition was blocked and validation errors displayed properly.

**Scenario 13: TS\_CHECKOUT\_01 – Verification of checkout proceeds to payment tab**

**Feature File:** https://github.com/THENMOZHI2/Apollo247TestingApp/blob/main/src/test/resources/Features/8\_Checkout.feature  
**Purpose:** To confirm that checkout flow proceeds securely to payment gateway.  
**Outcome:** User reached the payments tab successfully after proceeding through checkout steps.

**Conclusion**

The Apollo 24/7 application underwent rigorous functional testing across login, medicine purchase, cart management, address validation, profile creation, and checkout workflows. All scenarios executed successfully, with proper validations enforced for invalid actions. Based on the results, the application is **stable, secure, and production-ready** for real-world healthcare service deployment.