# **Test Plan for Date Picker & Order Main Hub UI**

## **1. Introduction**

This test plan outlines the testing strategy for the **Date Picker Component** and **Order Main Hub UI** in the **Bloom Brain 2025-26** project. It includes both **manual and automated testing** to ensure the components function correctly, meet the acceptance criteria, and provide a seamless user experience.

## **2. Scope**

### **2.1 In-Scope Features**

#### **BB25-772: Date Picker Component**

* Relative Date Mode (Predefined & Custom Inputs)
* Absolute Date Mode (Calendar View, Apply & Back Buttons)
* Smooth Transitions Between Modes
* Component API (Value Property & onChange Event Handling)
* UI Styling as per Tailwind CSS v4 & ShadCN
* Accessibility (Keyboard & Mouse Support)

#### **BB25-773: Order Main Hub UI**

* Integration of Date Picker Component
* Sorting & Pagination in Orders Table (TanStack Table)
* Order State Popover (Payment, Fulfillment, Shipment Statuses)
* Shopify Review Check Icon (Green Check for Approved Orders)
* Dummy API Implementation (Static Order Data)
* UI Consistency with Figma Design

### **2.2 Out-of-Scope Features**

* Real-time API integration with backend services
* Api Testing and Validations.
* Performance Testing.
* Payment processing and order modification
* Admin functionalities beyond filtering, sorting, and pagination
* Security Testing

## **3. Test Objectives**

* Ensure the **Date Picker Component** meets all functional and UI requirements.
* Validate sorting and pagination behavior within the **Order Main Hub**.
* Confirm correct responses for various data scenarios.
* Ensure a **smooth user experience** across devices and browsers.
* Validate **accessibility, performance, and error handling.**

## **4. Test Approach**

### **4.1 Testing Types**

* **Functional Testing** → Verify core functionalities against requirements.
* **Regression Testing** → Ensure changes do not break existing features.
* **Compatibility Testing** → Test across browsers (Chrome, Firefox, Safari, Edge) and devices.
* **Usability Testing** → Ensure ease of use, accessibility, and adherence to Figma design.

### **4.2 Test Environment**

* **Frontend:** React, Remix, Tailwind CSS v4, ShadCN
* **Backend:** Dummy API (TypeScript-based)
* **Browsers:** Chrome, Firefox, Safari, Edge
* **Devices:** Windows, macOS

## **5. Test Items & Features to be Tested**

| **Feature** | **Test Coverage** |
| --- | --- |
| **Date Picker** | UI, Relative & Absolute Modes, Transitions, Input Validation |
| **Sorting & Pagination** | Column Sorting, Pagination Controls |
| **Order Filtering** | Date-based Filtering |
| **Order Status Popover** | Displaying Payment, Fulfillment, Shipment Statuses |
| **UI Consistency** | Matching Figma Design, Responsiveness |

## 

## **6. Test Cases & Execution**

A detailed test case document is available [Here](https://docs.google.com/spreadsheets/d/1s8YtsIZKP8fdrnzM9i5l4ksFOdyAVduSyHAgrkPEY9w/edit?usp=sharing).

| **Test Phase** | **Planned Execution** | **Test Owner** |
| --- | --- | --- |
| Unit Testing | Before Integration | Developers |
| Functional Testing | After feature implementation | QA Team |
| Regression Testing | After bug fixes & new features | QA Team |
| Compatibility Testing | Across browsers & devices | QA Team |

## **7. Defect Management**

* **Defects** will be logged in **Git** with priority levels:
  + **Critical** → Major functionality failure (e.g., Date Picker doesn’t open)
  + **High** → Sorting, pagination
  + **Medium** → UI misalignment, responsiveness bugs
  + **Low** → Minor styling issues
* **Bug Workflow:** 🟠 **New** → 🔵 **In Progress** → 🟢 **Fixed** → ⚪ **Verified** → ✅ **Closed**

## **8. Risks & Mitigation Plan**

| **Risk** | **Impact** | **Mitigation Strategy** |
| --- | --- | --- |
| API failures or slow response | High | Implement error-handling and loading indicators |
| Browser incompatibility | Medium | Early testing on multiple browsers |
| UI misalignment with Figma | Low | Regular UI reviews |

## **9. Entry & Exit Criteria**

### **9.1 Entry Criteria**

✔ Requirement Analysis Completed.

✔ Completion of Test Planning and Test Cases documentations.

✔ Development of Date Picker & Order Main Hub UI is complete.

✔ UI is implemented as per Figma design.

### **9.2 Exit Criteria**

✔ All test cases executed with **> 95% pass rate**.

✔ No **Critical or High priority** defects remain open.

✔ UI is responsive across devices.

✔ Achieved Acceptance Criterias.

## **10. Automation Scope & Coverage**

### **10.1 Test Categories**

* **Functional Testing:** Task Management (CRUD), Filtering, Sorting
* **Regression Testing:** Performance, Data Persistence, Error Handling, System Integration
* **UI Testing:** Component Verification, Responsive Design
* **Date Picker Testing:** Selection, Validation, Format Handling.

### **10.2 Tools & Frameworks**

* **Core Framework:** Cucumber (6.9.0), Selenium WebDriver (4.25.0), Java (18), TestNG (6.14.3)
* **Supporting Tools:** WebDriver Manager, Extent Reports, Apache POI, SLF4J, Cursor
* **Framework Architecture:** Page Object Model, Cucumber BDD, Reusable Components

### **10.3 Test Execution & Reporting**

* **Execution Modes:** Full Suite, Category-based, Feature-based
* **Reporting:** Extent Reports (Execution Summary, Screenshots, Test Metrics)

## **11. Deliverables**

* **Test Plan Document**
* **Test Cases Document**
* **Bug Report & Logs**
* **Test Execution Report**

## **12. Approval**

| Name | Role | Approval Status |
| --- | --- | --- |
| Project Manager | Approver |  |
| QA | Test Owner |  |