

# Manual Testing Instructions for Tabbed Interface Update

**Pre-condition:** Launch the application successfully.

## Page Navigation and Layout Testing

### 1. Home Page Tab Navigation

- **Steps:**
  - a. Launch the application.
  - b. Verify the presence of a navigation bar with tabs labeled: "Home," "Plot," "Map," and "Instructions."
  - c. Click on the "Home" tab.
- **Expected Outcomes:**
  - a. The navigation bar is visible, and tabs are labeled correctly.
  - b. Clicking the "Home" tab navigates to the Home page, displaying sub-options (e.g., "Import Data," "Preferences," "Log Out," "Report Bug").

### 2. Plot Page Tab Navigation

- **Steps:**
  - a. Click on the "Plot" tab in the navigation bar.
  - b. Verify the presence of buttons for "Add Plot," "Delete Plot," and "Export Plot."
- **Expected Outcomes:**
  - a. Clicking the "Plot" tab navigates to the Plot page.
  - b. Buttons for plot management are displayed and functional.

### 3. Map Page Tab Navigation

- **Steps:**
  - a. Click on the "Map" tab in the navigation bar.
  - b. Verify the page contains features related to robot path mapping.
- **Expected Outcomes:**
  - a. Clicking the "Map" tab navigates to the Map page.
  - b. Path mapping functionality is displayed.

### 4. Instructions Page Tab Navigation

- **Steps:**
  - a. Click on the "Instructions" tab in the navigation bar.
  - b. Verify the page contains detailed instructions for robot data retrieval.
- **Expected Outcomes:**
  - a. Clicking the "Instructions" tab navigates to the Instructions page.
  - b. Instructions for robot data retrieval are displayed.

---

## Functionality Testing for Individual Pages

### 5. Home Page Button Functionality

- **Steps:**
    - a. On the Home page, click the "Import Data" button.
    - b. Verify that a file selector popup appears.
    - c. Click the "Report Bug" button and verify it opens a bug report submission form.
  - **Expected Outcomes:**
    - a. The file selector popup is displayed for importing data.
    - b. The bug report form opens upon clicking the "Report Bug" button.
  - 6. **Plot Page Export Button Functionality**
    - **Steps:**
      - a. On the Plot page, click the "Export Plot" button.
      - b. Verify a save-to dialog window appears with a file explorer.
    - **Expected Outcomes:**
      - a. The save-to dialog window appears for exporting plots.
  - 7. **Map Page Robot Path Mapping**
    - **Steps:**
      - a. On the Map page, input sample data for robot paths.
      - b. Verify the path visualization updates accordingly.
    - **Expected Outcomes:**
      - a. Robot path mapping is displayed correctly based on the input data.
  - 8. **Instructions Page Motor/Sensor Labeling Updates**
    - **Steps:**
      - a. Navigate to the Instructions page.
      - b. Verify the presence of updated instructions for labeling motors and sensors (e.g., "Drive Motor," "Swerve Motor").
    - **Expected Outcomes:**
      - a. Updated instructions are present and correctly labeled for different motor/sensor outputs.
- 

## General Validation

- 9. **Navigation Bar Consistency**
  - **Steps:**
    - a. Navigate through all tabs multiple times.
  - **Expected Outcomes:**
    - a. The navigation bar remains consistent across all pages without visual glitches or misalignment.
- 10. **Error Handling for Missing Features**
  - **Steps:**
    - a. Attempt to use unimplemented or unavailable features.
  - **Expected Outcomes:**
    - a. The application displays appropriate error messages without crashing.