**Attendance Tracker App Testing Checklist**

**Startup Tasks:**

* **Migration**:
  + Verify all the necessary tables are created successfully in the database.
* **Data Import**:
  + Ensure all data is imported successfully from the Excel file into the database.

**App Functionality and Layouts:**

**Login**:

* User ID validation:
  + Verify that the user ID input is correctly validated.
* Password validation:
  + Check password strength and ensure it meets security requirements.
* Unsuccessful Login:
  + Inform the user appropriately if login credentials are incorrect or invalid.

**Home Screen:**

* Upon successful login, redirect the user to the home screen based on user type:
* Super Admin:
  + User info with Check-In/Check-Out button.
  + Designations.
  + Ports.
  + Terminals.
  + Shifts.
  + Employees.
  + Reports section.
* Admin:
  + User info with Check-In/Check-Out button.
  + Terminals.
  + Shifts.
  + Employees.
  + Reports section.
* Supervisor and Operator:
  + Employee info.
  + Current Shift info.
  + Shift’s time progress bar.
  + Check-In/Check-Out button.
  + Profile.
  + Attendance report.
  + Overtime report.

**Designation Management:**

* List of Designations:
  + Verify the list of designations is displayed correctly.
* Add/Edit/Delete Designation:
  + Ensure the option to add a new designation is present in the list screen.
  + Verify that the screen loads with blank data for new designation.
  + Check that the screen loads with selected designation data for editing.
  + Validate the data before saving.
  + Refresh the list after saving.
  + Validate that a designation assigned to an employee cannot be deleted and alerts the user accordingly.
  + Refresh the list after deletion.

**Port Management:**

* List of Ports:
  + Verify the list of ports is displayed correctly.
* Add/Edit/Delete Port:
  + Ensure the option to add a new port is present in the list screen.
  + Verify that the screen loads with blank data for new port.
  + Check that the screen loads with selected port data for editing.
  + Validate the data before saving.
  + Refresh the list after saving.
  + Validate that a port assigned to any employee/terminal/shift cannot be deleted and alerts the user accordingly.
  + Refresh the list after deletion.

**Terminal Management:**

* For Super Admin:
  + Display the list of Terminals based on the selected port.
* For Admin users:
  + Display only the list of terminals related to their port.
* Add/Edit/Delete Terminal:
  + Ensure the option to add a new terminal is present in the list screen.
  + Verify that the screen loads with blank data for new terminal.
  + Check that the screen loads with selected terminal data for editing.
  + Super Admin can select/change the port of a terminal.
  + Admin cannot select/change the port.
  + Validate the data before saving.
  + Refresh the list after saving.
  + Validate before deleting.
  + Refresh the list after deletion.

**Shift Management:**

* For Super Admin:
  + Display the list of Shifts based on the selected port.
* For Admin users:
  + Display only the list of shifts related to their port.
* Add/Edit/Delete Shift:
  + Ensure the option to add a new shift is present in the list screen.
  + Verify that the screen loads with blank data for new shift.
  + Check that the screen loads with selected shift data for editing.
  + Super Admin can select/change the port of a shift.
  + Admin cannot select/change the port.
  + Validate the data before saving.
  + Refresh the list after saving.
  + Validate that a shift used in attendances cannot be deleted and alerts the user accordingly.
  + Refresh the list after deletion.

**Employee Management:**

* For Super Admin:
  + Display the list of Employees based on the selected port.
* For Admin users:
  + Display only the list of employees related to their port.
  + Add/Edit/Delete Employee:
  + Ensure the option to add a new employee is present in the list screen.
  + Verify that the screen loads with blank data for new employee.
  + Check that the screen loads with selected employee data for editing.
  + Super Admin can select/change the port of an employee.
  + Admin cannot select/change the port.
  + Validate the data before saving.
  + Refresh the list after saving.
  + Validate that an employee with attendances cannot be deleted and alerts the user accordingly.
  + Refresh the list after deletion.

**Check-In/Check-Out:**

* Check-In:
  + Allow only if there is a shift of the port related to the user that is ongoing and the user is not yet checked in.
* Check-Out:
  + Allow only if there is a shift of the port related to the user that is ongoing and the user is checked in for that shift. If the current shift is not completed yet and the user checked in as regular shift, do not allow to check out.
  + If user type is not Supervisor:
    - Ensure the user is within the geofencing area of any terminal to check in or check out.
  + If user wants to check in and has already completed one shift on that day, show an alert message and ask about Overtime.
  + If the user checked in as Overtime:
    - Allow the user to check out before the shift's end time.