1. **Goal**

Since Blu EV is a mobility and e-mobility solutions provider targeting users who rely on electric vehicles, battery swapping, and ride activity management.

My goal in testing this app is to ensure it delivers the **highest product quality** for these customers. By validating critical flows, UI/UX, and security, I help make the product **trustworthy and stable**.

1. **Scope and Test Types**

* **Authentication & Signup** → login, OTP, signup details, logout
* **Home Page** → layout, navigation, activation banner, localization
* **Activation Flow** → docs list, upload step (blocked), localization
* **Map** → rendering, station locator, Google Maps integration, localization
* **Help Section** → Contact Us, FAQ, Usage Guides, localization
* **App Lifecycle** → background → resume, kill → relaunch

**Testing Types:** Exploratory, UI/UX, Functional, Security

1. **Approach**

Before writing structured test cases, I conducted a **quick exploratory walkthrough** of the app across three devices (Realme 11 Pro 5G Android 15, Huawei Nova Y70 Android 10, Android Studio Emulator Android 16).  
This helped me:

* Build an initial mental model of the app flows.
* Spot obvious **UI/UX issues** (overflow, alignment, untranslated strings, gesture bar overlap).
* Identify **critical vs blocked areas** to prioritize testing effort given account/phone number limitations.

After exploratory, I moved into **risk-based prioritization** for test case design & execution.

1. **Entry Criteria**

* App is available to install from Google Play and launches successfully.
* Test devices have stable internet connection and GPS/location services enabled.
* User has a valid phone number capable of receiving OTP (limited pool: only 2 numbers available).
* At least one valid account can be created to proceed beyond login screen.

1. **Exit Criteria**

Testing is considered complete when:

* Important **Testable flows** are executed and documented (at least **10–15 test cases**)
* **Bugs/UX issues** discovered are recorded with repro steps, severity/priority, and evidence (At least 1-3).
* **Blocked flows** are clearly listed with reasons (e.g., account activation required, limited phone numbers, OTP throttling).
* At least one **suggestion or inquiry** is provided for the product or process.
* (**Bonus**) Suggest an automation idea: What would you automate first and why?

1. **Feature / Area Prioritization**

**Important Note:** Test case design was mostly based on **risk/priority-based testing**, but during execution the order differed due to **account limitations** (details listed in Test Environment & Limitations)

**High Priority (must test first, app unusable if broken):**

* Authentication (login, OTP, signup, logout)
* Signup Details (City/Area DDLs, Name field)
* Home screen layout & navigation (UI/UX, tabs open correctly)
* Map loads & station visibility + Google Maps integration
* Activation guards (Wallet, Scan, Activation banner)

**Medium Priority (important, once High areas are stable):**

* Localization / Language switching (EN ↔ AR) across all reachable screens
* Help section (Contact Us, FAQ, Usage Guides)
* UI responsiveness on different screen sizes / font scales
* App lifecycle (kill/resume, background → foreground)

**Low Priority (because currently blocked):**

* Account activation flow & document upload (Happy path is made; rest of validations are **blocked**)
* Wallet, Scan, & subscriptions (**blocked pre-activation**)
* Freeze/unfreeze subscription (**blocked pre-activation**)
* Notifications (non-core, and is not complete)

1. **Test Environment Assumptions / Limitations**

* **Phone number limitation**: only 2 real numbers available that’s **why test execution order chosen carefully**
  + In signup details Page, before testing and validation name fields, I had to test the rest of the fields first, as testing name filed with invalid data my cause accident signup, there for there will be no going back to validate rest of the fields.
  + OTP Rate Limit and Logout deferred as the app might stop sending OTPs without a warning. **(I assume service error)**
* **Activation required for many flows**: wallet, scan, subscription, and advanced features blocked.
* **Devices used**:
  + Realme 11 Pro 5G (Android 15, real device)
  + Huawei Nova Y70 (Android 10, real device)
  + Android Studio Emulator – Medium Phone (6.4″, 1080x2400, Android 16)
* **Network testing**: OTP spam/loader tested using network throttling (set to Poor/EDGE).
* **Font size testing**: Verified at Large (Realme) and 2XL (Huawei) → overflow issues documented.

1. **Suggestions & Enquiries**

* There is another page for **Sign In** that I could not figure out how to use. I think it may not be enabled yet, but if it is intended to be used, and if so, the maybe consider hide it until ready.
* When I go to the **More** tab and click on **Wallet**, it redirects me back to the Home page with no alert. I understand that Wallet requires activation, but I think showing a clear **alert message after the redirection** would improve the user experience.

1. **Automation Idea**

Defiantly **Automate Authentication (Login/OTP flow) Goes First**

**Why?**

* **it’s the most used part of the app, everyone goes through it.**
* **they also easy to automate.**
* **fields have multiple ways to validate it and a lot of edge and negative scenarios to enter**, so automating it will save time in regression test.
* they don't change often like other screens.