

Testing checklist: EV charging app

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☐ 1. release smoke tests

Done when: On the release build, using the demo station and test account given to store review, a test driver finds a station on the map, starts a session on a test charger, stops it and receives a receipt, and billing on the receipt stops at the stop tap.

Risks: store-rejection, money-loss. Tool class: mobile automation. Usually run by: QA engineer.

☐ 2. resilience and failure testing

Done when: With the roaming network or charger link cut mid-session, the app shows the session as interrupted, billing stops, and the receipt matches the energy delivered before the cut.

Risks: dependency-failure, money-loss. Tool class: chaos tool. Usually run by: developer.

☐ 3. data integrity and migration testing

Done when: For a sample of sessions, the kWh on each receipt matches the charger's meter values and the amount charged matches the price shown at start.

Risks: money-loss. Tool class: data validation. Usually run by: developer.

☐ 4. payment and money-flow testing

Done when: A session stopped early, a session the charger aborts and a declined card each end with one charge matching the energy delivered and no held amount left on the test card.

Risks: money-loss. Tool class: API client. Usually run by: QA engineer.

☐ 5. end-to-end functional tests

Done when: The price per kWh shows before the driver taps start, and a charger the backend marks out of order shows as unavailable on the map.

Risks: wrong-decisions, regulatory-penalty. Tool class: mobile automation. Usually run by: QA engineer.

☐ 6. accessibility testing

Done when: A screen reader user finds a station, starts a session and pays in the app without sighted help.

Risks: accessibility-liability. Tool class: accessibility checker. Usually run by: accessibility specialist.

☐ 7. compliance checks

Done when: A signed checklist for each market shows price display before start, accepted payment methods and the published reliability data, with a screenshot or link for each.

Risks: regulatory-penalty. Tool class: test management. Usually run by: product manager.

☐ 8. integration tests

Done when: Start, stop and meter messages between the backend and a test charger, and through a roaming partner, produce the same session record on both sides.

Risks: dependency-failure. Tool class: API client. Usually run by: developer.