**SMA Test Report**

**Project:** Skybot Mobile Application Version 2.0

**Test Type:** Functional Testing

**Test Date**: 20-26.10.2024

**Tested By:** O.Solodka

**Network:**  Wi-fi, 5G,4G mobile Kyivstar

**Environment:** Android 14,

Version Software A536BXXSBEXH1,

Version One UI 6.1

Screen size “6,5”

Android 12,

Model: Teclast T50\_EEA

V1.06\_20230824

Screen size “11”

### **Objective of Functional Testing**

The objective of functional testing for the mobile app for electric vehicle sales is to ensure the correct operation of all core app functions, including: registration and authorization, product browsing and product details, adding products to cart, checkout and payment, order tracking, reviews and ratings, booking services and user profile.

**Test Cases Overview:**

Total Test Cases Executed: 76

Test Cases Passed: 35

Test Cases Failed: 7

Test Cases blocked: 34

Success Rate: 46%

**Functional Areas Tested and Status**

0. **Installing and Uninstalling an App**

* Success: App tests passed successfully.

1. **Registration and Authorization**:

* Success: Most features passed, including registration, login, and social media logins.
* Failures: Password recovery feature (reset email not sent).

1. **Product Browsing**:

* Success: Product search, pagination and gallery view.
* Failures: Sort by price (feature missing), filter options (not developed), and inconsistent product descriptions.

1. **Product Details**:

* Success: Image zoom functionality.
* Failures: Incomplete or unstructured product specifications and descriptions.

1. **Adding Products to Cart**:

* All tests passed successfully, ensuring cart functionality works as expected.

1. **Checkout**:

* **Blocked**: All checkout functionalities, such as viewing products, selecting payment and shipping methods, and applying promo codes, are partially or not yet developed.
* **Failures**: Incorrect promo code discount application.

1. **Payment**:

* **Blocked**: All payment processing features are pending development, including card payments, PayPal integration, and currency options.

1. **Order Tracking**:

* **Blocked**: All tracking features have not been developed, including real-time updates and tracking links.

1. **Reviews and Ratings**:

* **Blocked**: All functionalities for adding, editing, sorting, and filtering reviews and ratings are pending.

1. **User Interface**:

* UI tests have been referenced and additional verification is available through a separate document.

1. **Booking Services**:

* **Blocked**: All booking functionalities, such as scheduling a ride and service bookings, are unavailable for testing.

1. **User Profile**:

* Success: Login, profile viewing/editing, and password recovery passed successfully.

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### **Detailed Test Results**

| **Requirement** | **Test cases** | **Status** | **Notes** |
| --- | --- | --- | --- |
| **0. Installing and Uninstalling an App** | 0.1 Download the Mobile App | Pass |  |
|  | 0.2 Launching the Mobile App | Pass |  |
|  | 0.3 Uninstalling an App from the Mobile Device | Pass |  |
| **1. Registration and Authorization** | 1.1 Registration with Valid Data | Pass |  |
|  | 1.2 Registration with Invalid Email Format | Pass |  |
|  | 1.3 Attempt Registration with an Already Registered Email | Pass |  |
|  | 1.4 Authorization with Valid Credentials | Pass |  |
|  | 1.5 Authorization with Incorrect Password | Pass |  |
|  | 1.6 Password Recovery | Fail | User doesn't receive a reset email |
|  | 1.7 Account Lock After Multiple Failed Login Attempts | Pass |  |
|  | 1.8 Google account Login | Pass |  |
|  | 1.9 Social Media (Facebook) Login | Pass |  |
|  | 1.10 Password Requirements Enforcement | Pass |  |
| **2. Product Browsing** | 2.1 Search for a Product Using the Search Bar | Pass |  |
|  | 2.2 Sort Products by Price | Fail | The option to sort products by price has not been developed |
|  | 2.3 View Product Details | Fail | There are not unified style for product descriptions |
|  | 2.4 Browse Products with Pagination/Infinite Scrolling | Pass |  |
|  | 2.5 Apply Multiple Filters (Price, Brand, Rating) | Fail | The option to filter products has not been developed |
|  | 2.6 Search for a Product with No Results | Pass |  |
|  | 2.7 View Product Images in Gallery Mode | Pass |  |
| **3. Product Details** | 3.1 Displaying of Product technical specifications | Fail | The technical characteristics of the products are not structured, not all products have them |
|  | 3.2 Detailed product description | Fail | The description of the products is not complete, not clear, not all products have a description |
|  | 3.3 Image Zoom Functionality | Pass |  |
| **4. Adding Products to Cart** | 4.1 Add Product from Details Page | Pass |  |
|  | 4.2 Add Multiple Quantities of Product | Pass |  |
|  | 4.3 Cart Updates for Duplicate Product Additions | Pass |  |
|  | 4.4 Prevent Adding Out-of-Stock Products | Pass |  |
|  | 4.5 Verify Product Details in Cart | Pass |  |
|  | 4.6 Verify Total Price Calculation | Pass |  |
|  | 4.7 View Cart After Adding Product | Pass |  |
|  | 4.8 Preserve Existing Items When Adding New Product | Pass |  |
|  | 4.9 Remove Product from Cart | Pass |  |
|  | 4.10 Add Product from Search Results | Pass |  |
|  | 4.11 Add Multiple Products to Cart | Pass |  |
|  | 4.12 Confirm Feedback for Adding Product to Cart | Pass |  |
| **5. Checkout** | 5.1 Navigate to Checkout Page | Pass |  |
|  | 5.2 Display Selected Products | Blocked | Function has not been developed yet |
|  | 5.3 Select Payment Method | Blocked | Function has not been developed yet |
|  | 5.4 Choose Shipping Method | Blocked | Function has not been developed yet |
|  | 5.5 Validate Payment Information | Blocked | Function has not been developed yet |
|  | 5.6 Successful Order Placement | Blocked | Function has not been developed yet |
|  | 5.7 Edit Shipping Address | Blocked | Function has not been developed yet |
|  | 5.8 Apply Promo Code | Fail | The promo code is not working correctly; instead of deducting 15% from the price, it deducts 15 currency units |
|  | 5.9 Order Confirmation after Payment | Blocked | Function has not been developed yet |
| **6. Payment** | 6.1 Display Payment Options | Blocked | The functionality has not been developed yet |
|  | 6.2 Successful payment with a valid credit card | Blocked | The functionality has not been developed yet |
|  | 6.3 Invalid Credit Card Rejection | Blocked | The functionality has not been developed yet |
|  | 6.4 PayPal Payment Processing | Blocked | The functionality has not been developed yet |
|  | 6.5 Verify payment with insufficient funds | Blocked | The functionality has not been developed yet |
|  | 6.6 Verify Payment Currency | Blocked | The functionality has not been developed yet |
|  | 6.7 Verify payment interface availability in multiple languages | Blocked | The functionality has not been developed yet |
| **7. Order Tracking** | 7.1 Verify order tracking availability | Blocked | The functionality has not been developed yet |
|  | 7.2 Verify real-time order status updates | Blocked | The functionality has not been developed yet |
|  | 7.3 Verify tracking number display | Blocked | The functionality has not been developed yet |
|  | 7.4 Verify external tracking link | Blocked | The functionality has not been developed yet |
|  | 7.5 Verify handling of delayed orders | Blocked | The functionality has not been developed yet |
|  | 7.6 Verify error handling when tracking data is unavailable | Blocked | The functionality has not been developed yet |
| **8. Reviews and Ratings** | 8.1 Verify submission of a new product review | Blocked | The functionality has not been developed yet |
|  | 8.2 Verify review editing functionality | Blocked | The functionality has not been developed yet |
|  | 8.3 Verify review delete functionality | Blocked | The functionality has not been developed yet |
|  | 8.4 Verify display of product ratings | Blocked | The functionality has not been developed yet |
|  | 8.5 Verify review sorting options | Blocked | The functionality has not been developed yet |
|  | 8.6 Verify reviews and ratings filtering functionality | Blocked | The functionality has not been developed yet |
| **9. User Interface** | <https://github.com/OleksandraSolodka/Prometheus-Internship-QAManual-Program/blob/main/Skybot%20Mobile%20Application/OSolodka_UITestCasesOfSkybotMobileApplicationVersion1.0.docx> |  | UI tests have been referenced and additional verification is available through a separate document |
| **10. Booking services** | 10.1 Verify User Sign Up for first ride | Blocked | This service is not yet available |
|  | 10.2 Scheduling a first ride with incomplete information | Blocked | This service is not yet available |
|  | 10.3 Service and maintenance booking | Blocked | This service is not yet available |
|  | 10.4 Booking service without selecting a date and time | Blocked | This service is not yet available |
|  | 10.5 Electric scooter rental | Blocked | This service is not yet available |
|  | 10.6 Renting a scooter with incomplete information | Blocked | This service is not yet available |
|  | 10.7 Renting a scooter for an unavailable period | Blocked | This service is not yet available |
|  | 10.8 Renting a scooter without selecting a model | Blocked | This service is not yet available |
| **11. User profile** | Successful Login to User Account | Pass |  |
|  | Viewing User Personal Information | Pass |  |
|  | Editing Personal Information | Pass |  |
|  | Password Recovery | Pass |  |
|  | Adding a Profile photo | Pass |  |

**Recommendation**:

### ***1. Work on Critical Functions***

**Implementation of Core Functions**: Prioritize completing the development of essential functions, such as order placement, payment processing, order tracking, reviews, and ratings. These features are crucial for users and must be fully functional for the product release.

**Unblocking**: Completing work on blocked features will allow for testing of the entire purchasing process, including payment, delivery, and order tracking, thus ensuring the integrity of core business processes.

### ***2. Enhancing Existing Functionality***

**Improving Sorting and Filtering**: Add sorting by price and enhanced filtering options (by price, brand, and rating) to improve the convenience of product browsing for users.

**Standardization of Product Descriptions**: Standardize product descriptions and technical specifications to ensure information is clear and structured for users. This will boost trust in the product and simplify the product selection process.

**Promo Codes and Discounts**: Fix promo code functionality to apply discounts accurately, avoiding calculation errors.