[Skybot web portal]

**Test Plan**

*Purpose: [prepare a systematic and comprehensive test solution for web-portal development]*

**Revision History**

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| --- | --- | --- | --- |
| Date | Version | Author | Description |
| 06.07.2024 | 1.0 | Prykhodchenko Bohdan | This is the Test Plan for the project “**Skybot web portal”** |
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# Introduction

## Purpose of the project

The purpose of the portal is to provide customers with the opportunity to choose and purchase an individual electric vehicle, receive warranty and non-warranty service, as well as leave product reviews and receive recommendations.

## Purpose of the development team

Develop the portal for seamless operation in a production environment, ensuring high performance, security, and user-friendliness.

## Purpose of the QA team

Provide high quality and reliability of the web portal, detect defects before release, and verify compliance with user and business requirements.

# Entry criteria

## Agreed Requirements

Documentation with requirements agreed upon by all stakeholders.

## Readiness of Test Environment

The test environment should be set up and ready for use.

## Readiness of the Testing Team

The testing team should be fully staffed and prepared to perform their duties.

## Test Data

Necessary data for conducting tests should be prepared and available.

# Tests to be Performed

## Smoke Testing

Check the basic functionality of the system.

## Functional Testing

Check the basic functionality of the system.

## UI Testing

Check the user interface for usability and design compliance.

## Cross-Browser Testing

Verify the portal's operation in different browsers.

## Cross-Platform Testing

Verify the portal's operation on different operating systems.

## Regression Testing

Ensure that code changes have not introduced new errors.

## Performance Testing

Check the portal's performance under load.

## Security Testing

Verify the security of the portal.

# Test Deliverables

## Checklists

Lists of checks that need to be performed.

## Bug Reports

Reports on found errors in the bug tracking system (e.g., Jira).

## Fixes

Fixed errors in the bug tracking system.

## Test Reports

Summary reports on the results of testing.

# Environments Tests

## Operating Systems

Windows 7/810/11, Ubuntu 20+, MacOS 13/14/15.

## Browsers

Google Chrome, Microsoft Edge, Mozilla Firefox, Safari.

## Cross-Browser Testing on Mobile OS

Android (v.9+), iOS (v.15+) with the specified browsers.

# Exit Criteria

## Planned Tests Completed

All planned tests should be executed and successfully passed.

## Bugs Found Fixed

All critical and high-priority bugs should be fixed.

## Test Results Confirmed

Test results should be confirmed by the project manager and the customer.

## Release Execution Confirmed

The release execution should be confirmed by the customer and the project manager.

# Risks and Contingencies

## Insufficient Human Resources

Action plan in case of a lack of personnel.

## Unavailability of Hardware Resources

Alternative solutions in case of missing necessary equipment.

## Late Availability of Resources

Action plan in case of delayed resource readiness.

## Preparation Level of Specialists

Training and upskilling to prepare specialists

## Sudden Change of Conditions and Requirements

Flexible approach to changing requirements.

## Change of Conditions by the Customer After Testing

Response plan for changes after testing is completed.