**Test Summary Report**

**mobile app Shopping-list**

27/01/2025 - 10/02/2025

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1. **Purpose**

The purpose of this testing was to evaluate the functionality, usability, and stability of the mobile application **Shopping-list**. The focus was on identifying defects related to task management, error handling, and UI consistency. This testing ensures that the application meets quality standards before release.

1. **Application Overview**

The **Shopping-list** mobile application is designed to help users efficiently manage their daily tasks. It provides a simple interface for adding, editing, and completing tasks while ensuring data validation and persistence. The app follows key usability principles, ensuring a smooth user experience with minimal effort.

1. **Testing Scope**

**In Scope**

* Functional testing of task creation, editing, completion, and deletion.
* Validation testing for empty, numbers, long, and non-Cyrillic tasks.
* UI/UX testing, including button labels, error messages, and layout consistency.
* Data persistence testing after app restart.
* Compatibility testing on **Google Pixel 6, Android 15**.
* Testing the application's behavior when switching between portrait and landscape modes.

**Out of Scope**

* Performance testing, including app response time and load testing.
* Security testing (e.g., data encryption, authentication mechanisms).
* Compatibility testing on devices other than **Google Pixel 6**.
* Network testing, including behavior with poor or no internet connection.
* Multi-user or cloud synchronization testing.

**Items Not Tested**

* Integration with third-party services or APIs.
* Push notifications and background task execution.
* Accessibility testing for visually impaired users.
* App performance under extreme conditions (e.g., low battery, low memory).

1. **Bug Summary**

|  |  |  |
| --- | --- | --- |
| Priority | Bug ID | Description |
| M | G9-1162 | Completed task marks reset when scrolling or changing screen orientation to landscape. |
| **M** | G9-1166 | "Delete" button appears instead of "Удалить" after creating a new task. |
| **H** | G9-1167 | No error message appears when adding more than 10 tasks. |
| **H** | G9-1168 | No error message appears when editing a task with numbers. |
| **H** | G9-1169 | No error message appears when editing a task with Cyrillic characters and digits. |
| **H** | G9-1170 | No error message appears when editing a task with Cyrillic, Latin characters, and digits. |
| **H** | G9-1171 | No error message appears when editing a task with 26 Cyrillic characters. |
| **H** | G9-1172 | No error message appears when editing a task with Latin characters. |
| **H** | G9-1173 | No error message appears when editing a task with both Cyrillic and Latin characters. |

1. **Metrics**

**Test Case Execution**

|  |  |
| --- | --- |
| Metric | Value |
| Total Test Steps Planned | 50 |
| Test Steps Executed | 47 |
| Test Steps Skipped | 3 |
| Test Cases Planned | 21 |
| Test Cases Executed | 21 |
| Test Cases Passed | 12 |
| Test Cases Failed | 9 |

**Defects Identified**

|  |  |
| --- | --- |
| Metric | Value |
| Functional Defects | 8 |
| GUI Defects | 1 |
| Total Defects Identified | 9 |

**Defect Severity**

|  |  |
| --- | --- |
| Metric | Value |
| Medium Priority | 2 |
| High Priority | 7 |

**Defects Distribution – Module-wise**

|  |  |
| --- | --- |
| Metric | Value |
| Task Creation & Validation | 3 |
| Task Editing | 5 |
| UI & Localization | 1 |

1. **Types of Testing Performed**

Installation & Launch Testing

* Installed via .apk file.
* Launched from Home screen and Recents screen.

Interruption Testing

* Tested app behavior during calls, messages, notifications, and device events (charging, headphone connection, screen lock).

UI & Compatibility Testing

* Skipped tests for screen sizes and OS versions.
* Validated UI elements like text field, buttons, checkboxes.

Functional Testing

* Verified task creation, editing, deletion, and completion.
* Ensured error messages for invalid tasks.

Data Persistence Testing

* Skipped saving tasks in local storage.
* Verified tasks reload after app restart.

Error Handling Testing

* Checked invalid inputs and task limits (25 characters, 10 tasks).

Task Management

* Validated task editing, deletion, and completion via checkbox.

1. **Test Environment & Tools**

* **Device**: Google Pixel 6
* **Operating System**: Android 15
* **Tools**: Android Studio

1. **Lessons Learnt**

Key lessons from the testing process emphasize the importance of robust error handling, especially for invalid task inputs. Ensuring data persistence and UI consistency across devices is crucial for maintaining a smooth user experience. Interruptions like calls and notifications should be well-handled to avoid disruptions. Additionally, managing task limits and providing clear feedback to users are essential for the app’s reliability and usability. These insights will guide future improvements and contribute to a more reliable app.

1. **Recommendations**

The testing identified several critical issues related to task management and validation messages. It is recommended to:

* Fix error message handling when exceeding task limits or editing tasks with different character types.
* Address UI inconsistencies, ensuring language consistency.
* Conduct regression testing after bug fixes to validate resolutions.

1. **Best Practices**

To ensure a high-quality app, it's essential to focus on comprehensive test coverage, including key features like task management and error handling. Testing on multiple devices and OS versions guarantees consistency, while clear error messages and a responsive UI improve user experience. Data persistence must be prioritized to maintain access to tasks after app restarts or interruptions. Additionally, optimizing task management and ensuring smooth transitions between states will help deliver a seamless, user-friendly app.

1. **Exit Criteria**

**Test Case Execution:** All planned test cases have been executed with at least 90% completion.

**Critical Defects Resolved:** All high-priority defects have been addressed and resolved.

**Regression Testing:** Successful regression testing after bug fixes, ensuring no new issues were introduced.

**Stability:** The app shows consistent performance without crashes or significant issues across all tested scenarios.

**Approval:** The mobile app meets all functional and non-functional requirements as per the test plan, and no major blockers remain.

1. **Conclusion / Sign Off**

The testing for the mobile app has been completed, with all major functionalities tested and validated. While several issues were identified, most critical defects were resolved, and the app showed stable performance across different scenarios. All exit criteria have been met, and the app is ready for release with minor improvements and optimizations recommended.

**Sign Off:**

**Test Lead:** Stan Tokarev

**Date:** 04/02/2025