Test Plan for **Ohmywishes** mobile application

QA Engineer: Dmitrii Marichev

1. Introduction

Overview of the application

Ohmywishes is an application for iOS and Android designed for managing wish lists and tracking friends' wishes.

Key features of the application

Creating wish lists: Users can create an unlimited number of wish lists to help them track their desires and dreams.

Adding wishes: Users can easily add their wishes to the application to share them with friends and track their fulfillment.

Social media support: Users can share their wishes on social media.

Tracking friends' wishes: Users can invite their friends to the application or find new ones to track and save their wishes.

Objectives of the test plan

Ensure reliable functionality and user-friendliness of the application.

Testing scope

The testing scope for the Ohmywishes application may include the following aspects:

Functional testing: Verify that all key features of the application, such as creating wish lists, adding wishes, and adding friends, work properly.

Compatibility testing: Check the application's compatibility with various iOS devices and operating system versions.

Social media interaction testing: Ensure that the ability to share wishes through social media functions without glitches.

User interface testing: Ensure that the user interface is intuitive, easy to use, and adapted to various iOS devices.

Notification testing: Ensure that notifications work correctly and in a timely manner, allowing users to receive reminders at their convenience.

Performance testing: Evaluate the application's performance under various conditions, ensuring that it responds quickly and operates efficiently, even with a large volume of data.

Security testing: Ensure that users' personal data is stored and transmitted in encrypted form and that the application is protected from hacking and malicious attacks.

2. Test Strategy

Types of testing: Functional, non-functional, compatibility.
Devices and platforms to be tested: Android, iOS.
Testing methodologies and approaches: Agile, Test design, Modular testing, User interface testing.

3. Test Environment

Hardware and software requirements: Smartphones and tablets running Android 11.0 and higher, iOS 16 and higher.
Mobile devices and operating systems for testing
Additional tools required for testing (emulators, simulators, etc.): Android Studio, Xcode

iOs App: https://apps.apple.com/ru/app/ohmywishes/id1275470725
Android App: https://play.google.com/store/apps/details?id=com.ohmywishes.start

4. Test Scenarios

Registration and authentication: Verification of the process of registering new users and authenticating existing users, including checking password security and account management.

Creation and management of wishlists: Testing the ability to create new wishlists, add and delete items, edit and move items between lists.

Wish search and filtering: Testing the functionality of wish search and filtering based on recommended categories.

Social media integration: Verification of integration with various social media platforms for sharing wishlists or notifying friends about one's wishes.

Responsive design and usability: Testing how the application adapts to different iOS devices, as well as evaluating the user interface's usability and overall user experience.

Low internet speed resilience test: Testing how the application handles operations with slow or unstable internet connections, including creating lists, adding items, and other actions.

Compatibility testing with various iOS versions: Testing how the application works on different versions of the iOS operating system, including checking compatibility with outdated versions and ensuring full functionality on the latest versions.

Extreme scenario response testing: Testing how the application handles extreme scenarios, such as unexpected application updates during active use and other unusual situations.

5. Test Cases

Test cases for registration and authentication

Test Case for New User Registration:

1) Open the application and locate the registration screen.
2) Enter a valid email address in the corresponding field.
3) Enter a secure password of at least 8 characters, containing letters, numbers, and special characters.
4) Click the "Register" button and ensure that a new account is successfully created.
5) Check for an email confirmation sent to the specified email address.
6) Follow the link in the email and confirm the registration or enter the confirmation code from the email.

Expected result: After clicking the "Register" button, the user is redirected to the confirmation code entry screen, and an email confirmation of the registration is sent to the specified email address.

Test Case for New User Registration with Apple:

1) Open the application and locate the login screen.
2) Register in the application using Apple.

Expected result: After successful registration, the user is directed to the main application screen.

Test Case for New User Registration with Vkontakte:

1) Open the application and locate the login screen.
2) Register in the application using Vkontakte.

Expected result: After successful registration, the user is directed to the main application screen.

Test Case for Authentication of Existing User using email and password:

1) Open the application and locate the login screen.
2) Enter the email address of the registered user and the password.

Expected result: After successful authentication, the user is directed to the main application screen.

Test Case for Authentication of Existing User with Apple:

1) Open the application and locate the login screen.
2) Log in to the application using Apple.

Expected result: After successful authentication, the user is directed to the main application screen.

Test Case for Authentication of Existing User with Vkontakte:

1) Open the application and locate the login screen.
2) Log in to the application using Vkontakte.

Expected result: After successful authentication, the user is directed to the main application screen.

Test Case: Password Recovery

Steps:
Open the application and locate the login screen.
Find the "Forgot password?" option on the login screen.
Enter the registered email address.
Click the "Send" button.
Check the email and follow the link to reset the password.
Enter the new password twice and save the changes.

Expected result: After successfully completing all the steps, the user can use the new password to log into the application.

Test Case: Log Out

Steps:
Open the application and locate the login screen.
Log in with the account of the registered user.
Find the "Log Out" option in the account settings.
Click the "Log Out" button and confirm the action.

Expected result: After clicking the "Log Out" button, the user will be redirected to the login screen.

Test Case: Account Deletion

Steps:
Open the application and locate the login screen.
Log in with the account of the registered user.
Find the "Delete Account" option in the account settings.
Confirm the account deletion.

Expected result: The user is redirected to the application's registration screen.

Negative test cases for registration and authentication:

Test Case for New User Registration with an Existing Email Address:

1) Open the application and locate the registration screen.
2) Enter an existing email address in the corresponding field.
3) Enter a secure password of at least 8 characters, containing letters, numbers, and special characters.
4) Click the "Register" button.

Expected result: The application should display an error message indicating that this email address is already in use for another account.

Test Case for Authentication without Providing a Password:

Steps:
1) Open the application and locate the login screen.
2) Enter a valid email address in the corresponding field.
3) Leave the password field blank.
4) Click the "Login" button.

Expected result: The application should display an error message prompting the user to enter a password for authentication.

Test Case for Authentication with an Incorrect Password:

1) Log into the application using the registered email address.
2) Attempt to enter an incorrect password.

Expected result: The application should display an error message about the incorrect password and prompt the user to re-enter the correct password.

Test Case for Registration with an Invalid Email Format:

1) Open the application and locate the registration screen.
2) Enter an email address in an invalid format (e.g., without the @ symbol) in the corresponding field.
3) Enter a secure password of at least 8 characters, containing letters, numbers, and special characters.
4) Click the "Register" button.

Expected result: The application should display an error message indicating an invalid email format and prompt the user to enter a valid email address.

Test Case for Password Recovery Attempt with an Unregistered Email Address:

Steps:
Open the application and locate the login screen.
Find the "Forgot password?" option on the login screen.
Enter an unregistered email address.
Click the "Send" button and confirm the password recovery request.

Expected result: The system should display an error and not send the password recovery request for an invalid email address.

Test Case for Password Security Check:

Open the application and locate the login screen.
Click the "Create an account" button.
Enter a simple password without uppercase letters, numbers, or special characters, or a length of less than 8 characters, for example, "passwd."
Click the "Register" button.

Expected result: The application should require the use of a secure password, including at least one uppercase letter, one number, and one special character. When attempting to use an insecure password, the application should display a corresponding warning and not allow the use of such a password.

Test Case for Attempting to Log into the Application with a Deleted Account:

Steps:
1) Open the application and locate the login screen.
2) Enter the email address and password for the deleted account in the corresponding fields.
3) Click the "Login" button.

Expected result: The application should display an error message notifying that the account has been deleted or does not exist.

Test cases for creating and managing wishlists

Test Case: Adding a New Wish

Steps:

1. Log in to your account in the application.
2. On the main page, select the option "Add New Wish."
3. Enter the wish name, description, and select a category.
4. Click the "Save" button to add the new wish.

Expected Result:

- The new wish is successfully added to the user's wishlist.
- The entered name, description, and category are displayed correctly.
- The user can see the new wish in their wishlist.

Test Case for Creating a New Wishlist:

Steps:

1. Log in to your account in the application.
2. On the main page, click the "Create New Wishlist" button.
3. Enter the name of the new wishlist in the corresponding field.
4. Click the "Create" button or confirm the action.

Expected Result: The new wishlist should be successfully created and displayed on the main page of the respective user.

Test Case for Adding an Item to the Wishlist:

Steps:

1. Log in to your account in the application.
2. Select the desired wishlist to which you want to add a new item.
3. Click the "Add Item" or similar button.
4. Enter information about the new item, such as name, description, image, if necessary.
5. Click the "Add" button or confirm the action.

Expected Result: The new item should be successfully added to the selected wishlist and displayed in it.

Test Case for Removing an Item from the Wishlist:

Steps:

1. Log in to your account in the application.
2. Select the wishlist from which you want to remove an item.
3. Find the item you want to delete and select the delete option or similar.
4. Confirm the action to delete the item.

Expected Result: The selected item should be successfully removed from the wishlist and no longer displayed in it.

Test Case for Editing an Item in the Wishlist:

Steps:

1. Log in to your account in the application.
2. Select the wishlist containing the item you want to edit.
3. Find the item and select the edit option or similar.

4. Make necessary changes to the item information, such as name, description, image.
5. Save the changes made.

Expected Result: The changes should be successfully saved, and the updated item information should be displayed in the wishlist.

Test Case for Deleting a Wishlist:

Steps:

1. Log in to your account in the application.
2. Select the wishlist you want to delete.
3. Confirm the action to delete the wishlist.

Expected Result: The selected wishlist should be successfully deleted from your wishlist page and no longer displayed.

Test Case: Adding Friends

Steps:

1. Log in to your account in the application.
2. On the main page, go to the "Friends" section.
3. Select the option "Invite Friends" and send invitations.

Expected Result: Invitations are successfully sent to friends.

Test Case: Viewing Friends' Wishes

Steps:

1. Log in to your account in the application.
2. On the main page, go to the "Friends" section.
3. Click on a friend to view their wishes.

Expected Result:
Tracked friends and their wishes are displayed correctly. The user can view the wishes of tracked friends.

Test Case: Saving Friends' Wishes

Steps:

1. Log in to your account in the application.

2. On the main page, go to the "Friends" section.
3. Click on a friend to view their wishes.
4. Select the friend's wish by clicking on the three dots in the upper right corner of the wish.
5. Click the "Save" button.

Expected Result:
A notification appears confirming the successful saving of the wish. The user can see the saved wishes on the main page of the application.

Negative test cases for creating and managing wishlists

Test case for creating a new wishlist with an empty name field:

Steps:
1. Log in to your account in the application.
2. On the main page, click the "Create New Wishlist" button.
3. Leave the new wishlist name field empty.
4. Click the "Create" button or confirm the action.

Expected Result: The system should provide a warning to fill in the name field and not allow the creation of a wishlist with an empty name.

Test Case: Saving Hidden Friend's Wishes

Steps:

1. Log in to your account in the application.
2. On the main page, go to the "Friends" section.
3. Click on a friend to view their wishes.
4. Select the friend's hidden wish (marked with a "lock" symbol) by clicking on the three dots in the upper right corner of the wish.
5. Click the "Save" button.

Expected Result:
An error notification appears when trying to save the wish. The user cannot save hidden wishes of other users. The hidden wish remains inaccessible for viewing on the user's main page.

Test case for checking the Privacy Policy page:

Test Case: Sharing wishlists through social media:

Steps:
1. Log in to your account in the application.
2. Click the Privacy Policy button in the side menu.

Expected Result: The Privacy Policy page opens and loads correctly.

Test cases for checking social media integration:

Test case for sharing wishlists through social media:

Steps:
1. Log in to your account in the application.
2. Select the "Share" option for a specific wishlist or a particular wish.
3. Choose a social network for sharing.
4. Confirm the submission.

Expected Result: The system should successfully share the selected wishlist on the chosen social platform.

Test case for integrating user profile information using Vkontakte:

1) Log in to the application and find the login screen
2) Log in to the application using Vkontakte.
3) Go to the profile settings.

Expected Result: User information is loaded and matches the information from the Vkontakte social network.

Evaluation of navigation convenience:

Steps:
Navigate to different sections of the application.
Attempt to navigate back using buttons.

Expected Result: Navigation should be intuitive and easy for the user. Control elements should respond reliably and instantly to user interactions.

6. Test Data

For testing registration and authentication:

Username: testuser
Password: Test@123
Email: testuser123@example.com

For testing the creation and management of wishlists:

New wishlist: "Birthday Gifts"
Items in the list: "Laptop," "Book," "Flowers"

For testing social media integration:

Vkontakte account: testuser123
Twitter account: testuser123
Instagram account: testuser123

For testing adaptive design:

Different device models: iPhone 13 Pro, iPhone 12, iPad Pro

7. Risks and Assumptions

Potential risks involved in the testing process:

Unforeseen load: With an increased number of users, scalability and performance issues may arise.
Violation of confidentiality: Improper handling and protection of users' personal data may lead to the leakage of sensitive information.
Issues with social networks: Integration with social networks may encounter technical issues, such as the inability to authenticate through social accounts.
Insufficient support for various iOS devices: Ensuring compatibility and usability across different devices could pose a problem.
Data synchronization errors: Problems with data synchronization between devices and preserving changes are possible.

Assumptions made during the testing phase:

Proper user data handling: It is assumed that the application should handle user data correctly and ensure its security.

Compliance with security standards: It is assumed that the application should adhere to industry-established data security standards.

Proper functioning with social networks: It is expected that the integration with social networks should work without any glitches or issues.

Correct adaptation to different devices: It is expected that the application should adapt properly to various models and resolutions of iOS devices.

Efficient data synchronization: It is assumed that data should synchronize effectively between different devices, ensuring the preservation of changes and updates.

8. Defect Management

Procedures for logging and tracking defects: All identified issues and errors should be logged into a dedicated defect management system with detailed descriptions, reproduction steps, and expected results.

Severity levels for identified defects: Each defect should be assessed based on its criticality, impact on functionality, and user experience to determine its priority for resolution.

Defect tracking: Defects should be tracked at all stages of resolution, from the moment of discovery to final resolution. It is also important to track the time spent on fixing each defect.

Alignment with the development team: For effective defect management, continuous collaboration with the development team is necessary to discuss, resolve, and track all issues that arise.

Testing of fixes: After the defects have been addressed, retesting is essential to ensure that the issues have been successfully resolved and the application's functionality has been restored.

Analysis of defect causes: It is also important to conduct an analysis of the causes of defects to address underlying issues and prevent their recurrence in the future.

Documentation of fixes: After successful resolution of defects, it is necessary to document all changes to track the history of modifications and review the results of the fixes later on.

9. Schedule

Timeline for testing activities of Ohmywishes App:

Start Date: 01.11.2023
End Date: 20.11.2023

1. Planning Phase (01.11.2023 - 03.11.2023):
    - Defining the core functions and features of the application
    - Planning test scenarios and test cases
    - Approval of the testing documentation

2. Preparation Phase (04.11.2023 - 06.11.2023):
    - Preparation of test data and test environments
    - Verification of test scenario settings

3. Testing Execution Phase (07.11.2023 - 12.11.2023):
    - Execution of test cases as per the plan
    - Registration and tracking of identified defects

4. Results Analysis Phase (13.11.2023 - 14.11.2023):
    - Evaluation of testing results
    - Preparation of testing and defect reports
    - Compilation of improvement recommendations

5. Completion Phase (15.11.2023):
    - Preparation of the final testing report
    - Conducting final meetings and presentation of results
    - Handing over the documentation to the development team for further corrections

6. Retesting and Adjustment Plans (16.11.2023 - 20.11.2023):
    - Correction of identified defects
    - Retesting to confirm the fixes
    - Analysis of the final state of the application
    - Preparation of the final report and recommendations

10. Sign-off Criteria

Conditions that must be met before the application can be released:

1. Core functionality of the application has been successfully tested and validated.
2. All critical and high-priority defects identified have been addressed and retested to confirm the fixes.
3. Verification of the application's compliance with the essential security standards and data protection has been completed.

4. All user requirements outlined in the product specification have been successfully implemented and tested.

5. Integration of the application with various social platforms has been seamlessly achieved without any errors.

6. Testing of the application's adaptability and usability across different iOS devices has been confirmed.

7. Final test report has been developed and prepared, encompassing detailed testing results, identified defects, and recommendations.

11. Conclusion

Bug Report

ID	Description	Steps to Reproduce	Actual Result	Expected Result	Priority	Test Environment	Screenshots
OMW-1	Error occurs when attempting to save a friend's hidden wish through the "Friends" section.	1. Logged into the account. 2. Navigated to the "Friends" section on the main page. 3. Clicked on a friend to view their wishes. 4. Selected a hidden wish of the friend (symbol "lock") and clicked on the ellipsis in the top right corner of the wish. 5. Clicked the "Save" button.	Upon attempting to save the friend's hidden wish, a notification about the successful save of the wish appears. The hidden wish becomes visible on the user's main page.	The user should receive an error notification when attempting to save a friend's hidden wish. The hidden wish should not become visible on the user's main page.	High	App Version: 2.1.7 App Build: 184 Device model: iPhone14,2 iOS version: 16.6.1	https://skr.sh /sMTuZq0NS bW https://skr.sh /sMTpHv6K9 q4 https://skr.sh /sMTvYc30Ot A https://skr.sh /sMTRcPn16o Z https://skr.sh /sMTArJKqBr 9
OMW-2	The "Privacy Policy" page does not load completely.	1. Open the application. 2. Tap on the "Privacy Policy" button in the side menu.	The "Privacy Policy" page does not load completely; images are missing on the page.	The privacy policy page opens and loads correctly.	High	App Version: 2.1.7 App Build: 184 Device model: iPhone14,2 iOS version: 16.6.1	https://skr.sh /sMTDTslTqO J
OMW-3	Error loading user information when integrating a profile from Vkontakte	1. Open the application. 2. Find the login screen. 3. Log in to the application using Vkontakte. 4.	The user information differs from the profile: the date of birth does not match.	The user information is loaded and matches the information from the Vkontakte social	Medium	App Version: 2.1.7 App Build: 184 Device model: iPhone14,2 iOS version: 16.6.1	https://skr.sh /sMTsD49Kb qO https://skr.sh /sMTsZJVfpU P

		Go to the profile settings.		network.			
OMW-4	The application does not require the use of a secure password during registration.	1. Open the application. 2. Tap on the "Create Account" button. 3. Enter a simple password without uppercase letters, numbers, or special characters, or of insufficient length (less than 8 characters), for example, "passwd." 4. Tap the "Register" button.	The application allows registering a new user and redirects to the registration confirmation page. The application does not require the use of a secure password.	The application should require the use of a secure password, including at least one uppercase letter, one number, and one special character, with a length of at least 8 characters. When attempting to use an insecure password, the application should display a corresponding warning and not allow the use of such a password.	Medium	App Version: 2.1.7 App Build: 184 Device model: iPhone14,2 iOS version: 16.6.1	https://skr.sh /sMT28KIOC z9

Summary of the test plan, key takeaways and recommendations

Testing of the Ohmywishes application has revealed several significant issues, including an error in saving friends' hidden wishes, incomplete loading of the "Privacy Policy" page, errors in loading user information through Vkontakte profile integration, and insufficient password security requirements during registration. These issues have been identified as having high and medium priority, indicating that they should be addressed immediately in the next app update. With these fixes in place, the Ohmywishes application will become more reliable and functional for users.