SubsTrack Test

Subscription Management and Tracking App

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Table of Contents

Revision History

Name	Date	Reason For Changes	Version

1. Introduction

This document outlines the testing procedures for the Subscription Management and Tracking App, ensuring that the system meets its requirements while considering both "usual" and "unusual" input values, in accordance with IEEE standards.

2. General Requirements

2.1 Platform Support

- **Test Case 1**: Verify platform support and handling of "usual" and "unusual" platform configurations.

    - *Usual Input*: Access the app on Web, iOS, and Android platforms.

    - *Unusual Input*: Access the app on older platform versions and devices with diverse configurations.

    - *Output*: The app functions correctly and gracefully handles both usual and unusual platform configurations.

2.2 Technology Stack

- **Test Case 2**: Verify technology stack and its response to "usual" and "unusual" technology choices.

    - *Usual Input*: Review the app's specified technology stack.

    - *Unusual Input*: Test with alternative and unconventional technologies.

    - *Output*: The app is developed using the specified stack and handles unusual technology choices when applicable.

2.3 Data Consistency and Integrity

- **Test Case 3**: Verify data consistency and integrity with "usual" and "unusual" data inputs.

    - *Usual Input*: Create, delete, and retrieve subscription data with typical data sets.

    - *Unusual Input*: Use unexpected, large, or irregular data sets for data operations.

    - *Output*: Data operations maintain data consistency and integrity, regardless of input characteristics.

2.4 User Interface

- **Test Case 4**: Verify user interface usability and compatibility with "usual" and "unusual" screen sizes and input devices.

    - *Usual Input*: Interact with the app's interface on typical screen sizes and input devices.

    - *Unusual Input*: Test with unconventional screen sizes, input devices, and accessibility tools.

    - *Output*: The interface remains intuitive, usable, and compatible with diverse input scenarios.

3. User Interface Requirements

3.1 Usability and Compatibility

- **Test Case 5**: Verify usability and compatibility with "usual" and "unusual" user interactions.

  - *Usual Input*: Interact with the app using common user interactions.

  - *Unusual Input*: Perform unconventional gestures, inputs, or accessibility interactions.

  - *Output*: The app maintains usability and compatibility in both usual and unusual interaction scenarios.

4. Subscription Dashboard

4.1 Comprehensive Subscription Dashboard

- **Test Case 6**: Verify the dashboard's response to "usual" and "unusual" subscription data.

  - *Usual Input*: Log in with a user account having a typical number of subscriptions.

  - *Unusual Input*: Log in with a user account with an exceptionally large number of subscriptions or subscriptions with unusual characteristics.

  - *Output*: The dashboard gracefully displays and manages subscriptions, handling both usual and unusual data scenarios.

5. Smart Subscription Renewal Reminders

5.1 Smart Subscription Renewal Reminders

- **Test Case 7**: Verify the handling of "usual" and "unusual" notification alerts.

  - *Usual Input*: Add subscriptions with an appropriate due date.

  - *Unusual Input*: Adding expired subscriptions.

  - *Output*: Users receive notifications for subscriptions that are not expired, expired subscriptions cannot be added.

6. Cost Tracking and Budgeting Tools

6.1 Cost Tracking and Budgeting Tools

- **Test Case 8**: Verify the app's ability to categorize subscriptions and handle "usual" and "unusual" budget thresholds.

  - *Usual Input*: Create subscriptions with common characteristics and set regular budget thresholds.

  - *Unusual Input*: Create subscriptions with uncommon characteristics and set extreme budget thresholds.

  - *Output*: The app correctly categorizes subscriptions and manages budget thresholds, whether they are usual or unusual.

9. Security Requirements

9.1 User Authentication
- **Test Case 9**: Verify user authentication security with "usual" and "unusual" inputs.

  - *Usual Input*: Attempt to log in with typical inputs.

  - *Unusual Input*: Attempt to log in with extreme or unusual inputs (e.g., very long passwords, special characters).

  - *Output*: The app securely authenticates users in both usual and unusual input scenarios, preventing vulnerabilities.

9.2 Data Encryption
- **Test Case 10**: Verify data encryption with "usual" and "unusual" data submissions.

  - *Usual Input*: Submit sensitive information with typical content and formats.

  - *Unusual Input*: Submit sensitive information with unusual content or formats.

  - *Output*: Sensitive data is securely encrypted and stored, regardless of whether the input is usual or unusual.

10. User Account Management

10.1 Profile Management
- **Test Case 11**: Verify user profile updates with "usual" and "unusual" input data.

  - *Usual Input*: Edit profile information with typical data.

  - *Unusual Input*: Edit profile information with unconventional or large data sets.

  - *Output*: Profile updates are reflected correctly, regardless of the input's usual or unusual characteristics.

10.2 Subscription History
- **Test Case 12**: Verify the accuracy of subscription history with "usual" and "unusual" subscription changes.

  - *Usual Input*: Perform common subscription modifications or cancellations.

  - *Unusual Input*: Perform uncommon subscription modifications or cancellations.

  - *Output*: Subscription history records changes accurately, regardless of whether they are usual or unusual.

11. Localization Requirements

11.1 Multilingual Support
- **Test Case 13**: Verify multilingual support with "usual" and "unusual" language selections.

- *Usual Input*: Select supported languages or provide common language preferences.

- *Unusual Input*: Select unsupported languages or provide unconventional language preferences.

- *Output*: The app gracefully handles both supported and unsupported languages, accommodating usual and unusual language preferences.

12. Performance Requirements

12.1 Response Time

- **Test Case 14**: Verify response time under "usual" and "unusual" user interactions.

  - *Usual Input*: Interact with the app in typical ways.

  - *Unusual Input*: Interact with the app in ways that lead to unusual load or interaction patterns.

  - *Output*: The app provides a responsive user experience in both usual and unusual interaction scenarios.

12.2 Scalability

- **Test Case 15**: Verify scalability with "usual" and "unusual" load scenarios.

  - *Usual Input*: Subject the app to typical usage patterns and data loads.

  - *Unusual Input*: Subject the app to extreme usage patterns and data loads.

  - *Output*: The app scales gracefully without significant performance degradation in both usual and unusual load scenarios.