Lab A [Flutter]: Develop User Stories

Exercise 2: Write user stories for the login/registration page

Here are the user stories for the **Login/Registration Page**, incorporating the security constraint that credentials are not saved in the browser cache.

User Story 1: Account Registration

Title: Account Registration

As a user, I want to register with my name, username, age, and country so that I can create an account and access the habit tracking features.

Acceptance Criteria:

- 1. The registration form must include fields for name, username, age, and country.
- 2. The system should validate all required fields before allowing submission.
- 3. Upon successful registration, the user should see a confirmation message and be redirected to the login page.

Priority: High **Story Points:** 3

Notes:

- Users should not be able to register with a duplicate username.
- No password is required at registration since login is restricted to default credentials.

User Story 2: Account Login

Title: Account Login

As a user, I want to log in using the default username and password so that I can access my account and track my habits.

Acceptance Criteria:

- 1. The login page must have fields for username and password.
- 2. Users can only log in using the predefined default credentials.
- 3. After successful login, the user is redirected to the homepage.

Priority: High **Story Points:** 2

Notes:

 User-entered credentials are not stored in the browser cache and are cleared after logout. Users should not be able to log in with their own registered credentials.

User Story 3: Error Feedback on Login

Title: Error Feedback on Login

As a user, I want to receive a message if I enter the wrong username or password so that I know my login attempt was unsuccessful.

Acceptance Criteria:

- 1. If the user enters incorrect credentials, an error message should be displayed.
- 2. The error message should clearly state that the username or password is incorrect.
- 3. The login form should not clear entered credentials upon error but should allow the user to correct them and try again.

Priority: High **Story Points:** 2

Notes:

 The error message should not reveal whether the username or password is incorrect for security reasons.

Exercise 3: Write user stories for the homepage

User Story 1: View Welcome Message

Title: Personalized Welcome Message

As a user, I want to see a personalized welcome message with my name on the homepage so that I feel recognized and can confirm I am logged into the correct account.

Acceptance Criteria:

- 1. The homepage should display a welcome message that includes the user's registered name.
- 2. The welcome message should be clearly visible at the top of the homepage.
- 3. If the user logs out and logs in again, the correct name should be displayed based on the current session.

Priority: Medium **Story Points:** 2

Notes:

• The welcome message should follow a friendly tone, e.g., "Welcome back, [User's Name]!".

• Since users log in with default credentials, their name should still be retained from registration.

User Story 2: Display Weekly Progress

Title: View Weekly Habit Progress

As a user, I want to see my daily progress for each habit on the homepage so that I can easily monitor my progress.

Acceptance Criteria:

- 1. The homepage should display a progress section showing each habit and its completion status for the past 7 days.
- 2. Progress should be visually represented using a progress bar, checkmarks, or a calendar view.
- 3. The data should update dynamically based on habit completion.

Priority: High **Story Points:** 3

Notes:

- Users should be able to distinguish completed, in-progress, and missed habits.
- Consider accessibility features, such as colorblind-friendly indicators.

User Story 3: View Completed Habits

Title: Track Completed Habits

As a user, I want to see a section for completed habits on the homepage so that I can track what I have already achieved.

Acceptance Criteria:

- 1. The homepage should display a separate section listing all completed habits.
- 2. Completed habits should be marked with a checkmark or visual confirmation.
- 3. The list should update dynamically when a habit is completed.

Priority: High **Story Points:** 2

Notes:

- The design should prevent clutter by limiting the list to recently completed habits or allowing users to filter them.
- Consider an option to mark habits as "archived" once completed.

Exercise 4: Write user stories for the menu

User Story 1: Access Menu Options

Title: Access Main Menu

As a user, I want to access a menu with options for configuring my habits, viewing reports, editing my profile, and signing out so that I can easily navigate to different parts of the app.

Acceptance Criteria:

- 1. The menu should be accessible from any screen via a visible button (e.g., a hamburger menu or bottom navigation bar).
- 2. The menu should display options for Profile, Habits, Reports, and Sign Out.
- 3. The menu should be easy to close (e.g., tapping outside the menu or using a close button).

Priority: High **Story Points:** 3

Notes:

- The menu should follow a simple and intuitive layout for ease of navigation.
- Consider adding icons alongside text labels for better usability.

User Story 2: Navigate to Profile

Title: Access Profile Page

As a user, I want to access the profile page from the menu so that I can update my personal information.

Acceptance Criteria:

- 1. The menu should contain a "Profile" option that redirects users to the profile page.
- 2. Selecting "Profile" should load the profile page without delays or errors.
- 3. The user should be able to return to the previous screen after visiting the profile page.

Priority: High **Story Points:** 2

Notes:

• Consider adding a profile picture or initials as a visual cue in the menu.

User Story 3: Navigate to Habits Page

Title: Access Habits Page

As a user, I want to access the habits page from the menu so that I can configure and manage my habits.

Acceptance Criteria:

- 1. The menu should have a "Habits" option that directs users to the habits management page.
- 2. Tapping on "Habits" should navigate to the correct screen without reloading the entire app.
- 3. The habits page should allow users to view, edit, and create habits.

Priority: High Story Points: 3

Notes:

• Ensure a smooth transition animation when navigating between pages.

User Story 4: Sign Out from Menu

Title: Log Out from Menu

As a user, I want to sign out of my account using an option in the menu so that I can securely log out when I'm finished using the app.

Acceptance Criteria:

- 1. The menu should include a "Sign Out" option.
- 2. Selecting "Sign Out" should log the user out and return them to the login page.
- 3. Any session data should be cleared upon logout.

Priority: High **Story Points:** 2

Notes:

- Display a confirmation prompt before logging the user out to prevent accidental sign-outs.
- Ensure that cached user data is cleared for security reasons.

Exercise 5: Write user stories for the profile page

User Story 1: View Personal Information

Title: View Profile Details

As a user, I want to view my saved name, username, age, and country on my profile page so that I can see the details I provided during registration.

Acceptance Criteria:

- 1. The profile page should display the user's registered name, username, age, and country.
- 2. The displayed information should match the details entered during registration.
- 3. The profile information should be presented in a clear and structured format.

Priority: High **Story Points:** 2

Notes:

- Consider using a read-only mode with an "Edit" button for better user experience.
- Ensure proper text formatting and layout for accessibility.

User Story 2: Edit Personal Information

Title: Update Profile Information

As a user, I want to update my name, username, age, and country on my profile page so that I can keep my information up to date.

Acceptance Criteria:

- 1. The profile page should provide an "Edit" button to enable modification of fields.
- 2. Users should be able to update their name, username, age, and country.
- 3. Invalid inputs (e.g., empty fields, non-numeric age) should be prevented with validation messages.

Priority: High **Story Points:** 3

Notes:

- Consider using a modal or inline editing for better usability.
- Ensure that the username remains unique if applicable.

User Story 3: Save Updated Information

Title: Save Profile Changes

As a user, I want the changes I make to my profile to be saved so that my updated details are stored and reflected throughout the app.

Acceptance Criteria:

- 1. A "Save" button should be available after editing profile information.
- 2. Clicking "Save" should update the user's information in the database.
- 3. The user should receive a confirmation message upon successful update.

Priority: High **Story Points:** 3

Notes:

- Ensure a smooth transition between edit and view modes.
- Consider adding an option to cancel changes before saving.

User Story 4: Update Name in Header

Title: Display Updated Name in App Header

As a user, I want my updated name to be displayed in the app's header after I change it in the profile so that my changes are immediately visible.

Acceptance Criteria:

- 1. The app header should dynamically update the name after changes are saved.
- 2. The updated name should appear on the homepage and other relevant sections.
- 3. If the user logs out and logs in again, the new name should persist.

Priority: Medium **Story Points:** 2

Notes:

• Consider implementing real-time updates without requiring a page refresh.

Exercise 6: Write user stories for the habits page

User Story 1: Add a New Habit

Title: Create a Habit

As a user, I want to add new habits on the details configuration page so that I can manage and update my habits as needed.

- 1. The habits page should have an "Add Habit" button that opens a habit creation form.
- 2. The form should include fields for habit name, frequency, reminders, and optional color selection.
- 3. After saving, the new habit should be added to the list and displayed on the homepage.

Priority: High **Story Points:** 3

Notes:

- Consider allowing users to set habit categories (e.g., health, productivity).
- Ensure a user-friendly interface with clear input fields and default values.

User Story 2: Delete a Habit

Title: Remove Unwanted Habits

As a user, I want to delete existing habits so that I can keep my habits up to date.

Acceptance Criteria:

- 1. Each habit should have a "Delete" option (e.g., a trash icon or long press action).
- 2. A confirmation prompt should appear before permanently deleting a habit.
- 3. After deletion, the habit should be removed from the list and homepage.

Priority: High **Story Points:** 2

Notes:

- Consider allowing users to "archive" habits instead of permanent deletion.
- Ensure that deleted habits cannot be accidentally recovered without confirmation.

User Story 3: Personalize a Habit with Color

Title: Customize Habit Appearance

As a user, I want to assign a specific color to each habit to make it personal to me.

- 1. Users should have an option to choose a color when adding or editing a habit.
- 2. The selected color should be applied to the habit in the UI (e.g., background, icons, or progress bars).
- 3. Changes should be saved and persist after logging out and back in.

Priority: Medium **Story Points:** 2

Notes:

- Provide a color palette with a variety of options but avoid overly bright or unreadable colors.
- Consider accessibility features, such as contrast ratios for colorblind users.

Exercise 7: Write user stories for the reports page

User Story 1: View Weekly Reports

Title: Track Weekly Progress

As a user, I want to see a report of my weekly habit progress so that I can understand how well I am maintaining my habits.

Acceptance Criteria:

- 1. The reports page should display an overview of the user's progress for the past 7 days.
- 2. The data should be presented in an easy-to-read format, such as a summary card or progress percentage.
- 3. The report should update dynamically as habits are completed or missed.

Priority: High **Story Points:** 3

Notes:

- Consider adding motivational messages based on progress (e.g., "Great job! Keep up the streak!").
- The report should clearly differentiate between completed and missed days.

User Story 2: Visualize Completed Habits

Title: View Completed Habits Chart

As a user, I want to see a chart of my completed habits for each day of the week so that I can quickly identify trends in my progress.

- 1. A visual representation (e.g., bar chart, line graph, or heatmap) should display the number of completed habits per day.
- 2. The chart should be interactive, allowing users to tap on a day to see details.

3. The colors should clearly distinguish between completed and uncompleted habits.

Priority: Medium **Story Points:** 3

Notes:

- Ensure the chart is accessible for users with visual impairments (e.g., text labels, high contrast).
- Consider allowing users to filter by specific habits.

User Story 3: View All Habits

Title: Comprehensive Habit Overview

As a user, I want to see both completed and incomplete habits in my report so that I have a comprehensive view of my habit tracking performance.

Acceptance Criteria:

- 1. The report should include a section showing all habits, their statuses (completed/missed), and frequency.
- 2. The user should be able to sort or filter habits (e.g., "Show only completed" or "Show missed habits").
- 3. Habit data should persist and be accessible even after logging out and back in.

Priority: High **Story Points:** 3

Notes:

- Consider adding a streak counter to encourage consistency.
- The layout should avoid clutter, ensuring users can easily find key insights.

Exercise 8: Write user stories for the notifications page

User Story 1: Enable/Disable Notifications

Title: Manage Notification Preferences

As a user, I want to be able to enable or disable notifications for the app so that I can choose whether or not to receive reminders for my habits.

Acceptance Criteria:

1. The notifications page should have a toggle switch to enable or disable notifications globally.

- 2. If notifications are disabled, no habit reminders should be sent.
- 3. If notifications are enabled, users should be able to customize reminders for individual habits.

Priority: High **Story Points:** 2

Notes:

- Provide a confirmation message when enabling or disabling notifications.
- Consider integrating with system-level notification settings.

User Story 2: Add Habits for Notifications

Title: Select Habits for Notifications

As a user, I want to select specific habits to receive notifications for so that I only get reminders for the habits I am actively working on.

Acceptance Criteria:

- 1. Users should see a list of their habits with checkboxes to enable or disable notifications for each habit.
- 2. Only selected habits should trigger notifications.
- 3. Changes should be saved and persist after logging out and back in.

Priority: High **Story Points:** 3

Notes:

- Consider adding a "Select All" option for convenience.
- Ensure that users can update their selections anytime.

User Story 3: Set Notification Times

Title: Configure Notification Schedule

As a user, I want to have the option to receive notifications three times a day (morning, afternoon, evening) for all selected habits so that I get timely reminders throughout the day to complete my habits.

- 1. Users should be able to set notification times for morning, afternoon, and evening.
- 2. Notifications should be sent only for selected habits at the specified times.

3. Users should receive a confirmation message when changes to notification times are saved.

Priority: Medium Story Points: 3 Notes:

- Provide default time suggestions (e.g., 8 AM, 2 PM, 7 PM) but allow users to customize them.
- Ensure that notifications respect the device's "Do Not Disturb" settings.