Test Cases:

1. Precondition: Application is installed and launched successfully

Steps:

* Click on the "Sign Up" button.
* Enter valid email and password in the respective fields.
* Click on the "Sign Up" button.

Expected Result: User should be able to create an account successfully.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application displays the current water intake level.

Expected Result: The current water intake level should be displayed accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can track the daily water intake and display it in a graphical format.

Expected Result: The daily water intake should be tracked accurately and displayed in a graphical format.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can calculate the recommended water intake based on the user's weight, height, age, and gender.

Expected Result: The recommended water intake should be calculated accurately based on the user's details.

1. Precondition: User is logged in to the application

Steps:

* Verify that the user can set reminders for drinking water at regular intervals.

Expected Result: The user should be able to set reminders successfully.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can send notifications to remind the user to drink water.

Expected Result: The user should receive notifications as per the set reminders.

1. Precondition: User is logged in to the application

Steps:

* Verify that the user can manually input the amount of water consumed at any given time.

Expected Result: The application should allow the user to input the amount of water consumed.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide feedback on whether the user is meeting their daily water intake goal.

Expected Result: The application should provide feedback on whether the user is meeting their daily water intake goal or not.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can display the history of water intake over a period of time.

Expected Result: The application should display the history of water intake accurately over a period of time.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide suggestions for ways to increase water intake.

Expected Result: The application should provide relevant suggestions to increase water intake.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can adjust the recommended water intake based on the user's activity level.

Expected Result: The recommended water intake should be adjusted accurately based on the user's activity level

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can handle unexpected errors gracefully.

Expected Result: The application should handle unexpected errors gracefully.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can display information about the benefits of staying hydrated.

Expected Result: The application should display information about the benefits of staying hydrated accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the health risks of dehydration.

Expected Result: The application should provide information about the health risks of dehydration accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can store user data securely.

Expected Result: The application should store user data securely.

1. Precondition: User is logged in to the application

Steps:

* Verify that the user can edit their account information.

Expected Result: The user should be able to edit their account information successfully.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can display the recommended water intake in different units of measurement (e.g. ounces, liters)

Expected Result: The recommended water intake should be displayed accurately in different units of measurement.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can sync data between different devices.

Expected Result: The application should be able to sync data between different devices successfully.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can export data in a printable format.

Expected Result: The application should be able to export data in a printable format successfully.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can import data from other health-tracking apps.

Expected Result: The application should be able to import data from other health-tracking apps successfully.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the nutritional value of different beverages.

Expected Result: The application should provide information about the nutritional value of different beverages accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide suggestions for low-calorie ways to increase water intake.

Expected Result: The application should provide relevant suggestions for low-calorie ways to increase water intake.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the importance of water intake during pregnancy.

Expected Result: The application should provide information about the importance of water intake during pregnancy accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on skin health.

Expected Result: The application should provide information about the effect of water intake on skin health accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide customer support through various channels (e.g. email, chat).

Expected Result: The application should provide customer support through various channels.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the best times to drink water.

Expected Result: The application should provide information about the best times to drink water accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can adjust the recommended water intake based on the user's health conditions (e.g. diabetes, kidney disease).

Expected Result: The recommended water intake should be adjusted accurately based on the user's health conditions.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can display information about the benefits of drinking water before a meal.

Expected Result: The application should display information about the benefits of drinking water before a meal accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the best types of water to drink.

Expected Result: The application should provide information about the best types of water to drink accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the risks of drinking too much water.

Expected Result: The application should provide information about the risks of drinking too much water accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can display the user's hydration level based on their water intake.

Expected Result: The application should display the user's hydration level accurately based on their water intake.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on brain function.

Expected Result: The application should provide information about the effect of water intake on brain function accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on weight loss.

Expected Result: The application should provide information about the effect of water intake on weight loss accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on exercise performance.

Expected Result: The application should provide information about the effect of water intake on exercise performance accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on digestive health.

Expected Result: The application should provide information about the effect of water intake on digestive health accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on kidney function.

Expected Result: The application should provide information about the effect of water intake on kidney function accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on heart health.

Expected Result: The application should provide information about the effect of water intake on heart health accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on joint health.

Expected Result: The application should provide information about the effect of water intake on joint health accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on liver function.

Expected Result: The application should provide information about the effect of water intake on liver function accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on urinary tract infections.

Expected Result: The application should provide information about the effect of water intake on urinary tract infections accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on dental health.

Expected Result: The application should provide information about the effect of water intake on dental health accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the recommended water intake for children.

Expected Result: The application should provide information about the recommended water intake for children accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the recommended water intake for elderly people.

Expected Result: The application should provide information about the recommended water intake for elderly people accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the recommended water intake for athletes.

Expected Result: The application should provide information about the recommended water intake for athletes accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the recommended water intake for people with certain medical conditions.

Expected Result: The application should provide information about the recommended water intake for people with certain medical conditions accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of alcohol and caffeine on water intake.

Expected Result: The application should provide information about the effect of alcohol and caffeine on water intake accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the importance of water intake for breastfeeding mothers.

Expected Result: The application should provide information about the importance of water intake for breastfeeding mothers accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effects of dehydration on athletic performance.

Expected Result: The application should provide information about the effects of dehydration on athletic performance accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the importance of hydration in hot and humid weather.

Expected Result: The application should provide information about the importance of hydration in hot and humid weather accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effects of dehydration on mental health.

Expected Result: The application should provide information about the effects of dehydration on mental health accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on hair health.

Expected Result: The application should provide information about the effect of water intake on hair health accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on eye health.

Expected Result: The application should provide information about the effect of water intake on eye health accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on overall wellbeing.

Expected Result: The application should provide information about the effect of water intake on overall wellbeing accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the importance of drinking water during air travel.

Expected Result: The application should provide information about the importance of drinking water during air travel accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effects of dehydration on the immune system.

Expected Result: The application should provide information about the effects of dehydration on the immune system accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on blood pressure.

Expected Result: The application should provide information about the effect of water intake on blood pressure accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on migraines.

Expected Result: The application should provide information about the effect of water intake on migraines accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on allergies.

Expected Result: The application should provide information about the effect of water intake on allergies accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the importance of water intake for people with diabetes.

Expected Result: The application should provide information about the importance of water intake for people with diabetes accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on arthritis.

Expected Result: The application should provide information about the effect of water intake on arthritis accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on sleep quality.

Expected Result: The application should provide information about the effect of water intake on sleep quality accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on inflammation.

Expected Result: The application should provide information about the effect of water intake on inflammation accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on hormone balance.

Expected Result: The application should provide information about the effect of water intake on hormone balance accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the best types of water filters.

Expected Result: The application should provide information about the best types of water filters accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on the urinary system.

Expected Result: The application should provide information about the effect of water intake on the urinary system accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on skin hydration.

Expected Result: The application should provide information about the effect of water intake on skin hydration accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the importance of water intake for people with high cholesterol.

Expected Result: The application should provide information about the importance of water intake for people with high cholesterol accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on muscle function.

Expected Result: The application should provide information about the effect of water intake on muscle function accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the best types of water bottles.

Expected Result: The application should provide information about the best types of water bottles accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on blood sugar levels.

Expected Result: The application should provide information about the effect of water intake on blood sugar levels accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on mental clarity.

Expected Result: The application should provide information about the effect of water intake on mental clarity accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on the body's pH level.

Expected Result: The application should provide information about the effect of water intake on the body's pH level accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on the lymphatic system.

Expected Result: The application should provide information about the effect of water intake on the lymphatic system accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on blood flow.

Expected Result: The application should provide information about the effect of water intake on blood flow accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on the body's pH level.

Expected Result: The application should provide information about the effect of water intake on the body's pH level accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on eye strain.

Expected Result: The application should provide information about the effect of water intake on eye strain accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on the body's ability to regulate temperature.

Expected Result: The application should provide information about the effect of water intake on the body's ability to regulate temperature accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on the body's ability to detoxify.

Expected Result: The application should provide information about the effect of water intake on the body's ability to detoxify accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on joint lubrication.

Expected Result: The application should provide information about the effect of water intake on joint lubrication accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on the body's electrolyte balance.

Expected Result: The application should provide information about the effect of water intake on the body's electrolyte balance accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on nutrient absorption.

Expected Result: The application should provide information about the effect of water intake on nutrient absorption accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on overall physical performance.

Expected Result: The application should provide information about the effect of water intake on overall physical performance accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the best times to drink water for optimal health.

Expected Result: The application should provide information about the best times to drink water for optimal health accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on blood circulation.

Expected Result: The application should provide information about the effect of water intake on blood circulation accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on the body's metabolism.

Expected Result: The application should provide information about the effect of water intake on the body's metabolism accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on muscle recovery after exercise.

Expected Result: The application should provide information about the effect of water intake on muscle recovery after exercise accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on brain fog.

Expected Result: The application should provide information about the effect of water intake on brain fog accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the importance of water intake for people with high blood pressure.

Expected Result: The application should provide information about the importance of water intake for people with high blood pressure accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on bone density.

Expected Result: The application should provide information about the effect of water intake on bone density accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on the body's inflammatory response.

Expected Result: The application should provide information about the effect of water intake on the body's inflammatory response accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on memory and concentration.

Expected Result: The application should provide information about the effect of water intake on memory and concentration accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on the body's pH level.

Expected Result: The application should provide information about the effect of water intake on the body's pH level accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on the body's immune response.

Expected Result: The application should provide information about the effect of water intake on the body's immune response accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on blood viscosity.

Expected Result: The application should provide information about the effect of water intake on blood viscosity accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on the body's energy levels.

Expected Result: The application should provide information about the effect of water intake on the body's energy levels accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on the body's digestive system.

Expected Result: The application should provide information about the effect of water intake on the body's digestive system accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the importance of drinking water before and after meals.

Expected Result: The application should provide information about the importance of drinking water before and after meals accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the best temperature for drinking water.

Expected Result: The application should provide information about the best temperature for drinking water accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on the body's electrolyte balance.

Expected Result: The application should provide information about the effect of water intake on the body's electrolyte balance accurately.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can provide information about the effect of water intake on joint pain.

Expected Result: The application should provide information about the effect of water intake on joint pain accurately.

1. Precondition: User is logged in to the application

Steps:

* Check the application's response time when opening different sections of the application.

Expected Result: The application should load each section quickly, without any significant delay.

1. Precondition: User is logged in to the application

Steps:

* Test the application's security by attempting to login with incorrect credentials.

Expected Result: The application should deny access and display an appropriate error message.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application encrypts sensitive user data, such as login credentials and personal information.

Expected Result: The application should encrypt sensitive user data to ensure the user's privacy and security.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application's data is backed up regularly to prevent data loss.

Expected Result: The application should backup user data regularly to prevent data loss in case of hardware failure or other technical issues.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application is protected from viruses and malware.

Expected Result: The application should be protected from viruses and malware to prevent data theft or corruption.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application can handle multiple users accessing it simultaneously.

Expected Result: The application should be able to handle multiple users without any significant lag or delay.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application's user interface is intuitive and easy to navigate.

Expected Result: The application's user interface should be easy to navigate, even for users who are not familiar with the application.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application provides adequate error handling and displays appropriate error messages when necessary.

Expected Result: The application should display appropriate error messages to help users understand and correct errors they encounter.

1. Precondition: User is logged in to the application

Steps:

* Test the application's reliability by running it continuously for a set period of time.

Expected Result: The application should be able to run continuously without any significant issues or crashes.

1. Precondition: User is logged in to the application

Steps:

* Verify that the application is compatible with the latest operating system updates and patches.

Expected Result: The application should be compatible with the latest updates and patches to ensure smooth and secure operation.

Bug Reports

| **Bug #** | **Bug Description** | **Priority** | **Preconditions** | **Steps to Reproduce** | **Actual Result** | **Expected Result** |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | Incorrect water intake goal displayed on the app's home screen | Minor | User has set a specific water intake goal in the app's settings. | 1. Open the app and navigate to the home screen. | The displayed water intake goal is incorrect. | The app should display the correct water intake goal on the home screen. |
| 2 | The app's history graph is not displaying water intake data for the current day | Minor | User has logged water intake for the current day. | 1. Navigate to the app's history graph. | The app may not display the user's water intake data for the current day on the history graph. | The app should display the user's water intake data for the current day on the history graph. |
| 3 | The app does not accurately track water intake for non-water beverages (e.g. coffee, tea) | Medium | User has logged water intake for non-water beverages. | 1. Log water intake for a non-water beverage. | The app does not accurately track water intake for non-water beverages. | The app should accurately track water intake for all types of beverages, not just water. |
| 4 | The app does not allow users to add custom serving sizes for water intake | Medium | User has attempted to add a custom serving size for water intake. | 1. Attempt to add a custom serving size for water intake. | The app does not allow users to add custom serving sizes for water intake. | The app should allow users to add custom serving sizes for water intake. |
| 5 | The app's water intake reminders are not customizable | Medium | User has enabled water intake reminders and wants to adjust the frequency or time of day they receive them. | 1. Attempt to adjust the frequency or time of day of water intake reminders. | The app's water intake reminders are not customizable. | The app should allow users to customize |