



## American International University-Bangladesh (AIUB)

Department of Computer Science  
Faculty of Science & Technology (FST)  
Fall 24 25

Section: B  
Software Quality Assurance and Testing

### Health Awareness System

A Report submitted

By

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Date:

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# Software Test Plan

for

## <Project>

Version 1.0 approved

Prepared by Lida Khan Mukti, Most. Sayma Khatun, Bishal Paul

American International University-Bangladesh

date: 26-01-2025

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## Revision History

Revision	Date	Updated by	Update Comments
0.1	17/01/25	Sayma	First Draft
0.2	18/01/25	Bishal	Second Draft
0.3	19/01/25	Mukti	Third Draft
0.4	20/01/25	Sayma	Fourth Draft
0.5	21/01/25	Bishal	Fifth Draft
0.6	22/01/25	Mukti	Sixth Draft
0.7	23/01/25	Sayma	Seventh Draft
0.8	24/01/25	Mukti	Eighth Draft
0.9	25/01/25	Bishal	Final Draft

## 1. TEST PLAN IDENTIFIER: Health Awareness System RS-MTP01.3

## 2. REFERENCES

- Any reference documents with the test plan. For example: Software Requirement Specification (SRS) Document.

## 3. INTRODUCTION

### Background to the Problem

The demand for a strong Health Awareness System (HAS) has grown in the modern world, which is characterized by a fast-paced lifestyle and a changing healthcare environment. The state of preventive healthcare and health awareness today faces several obstacles that make it difficult for people to make well-informed decisions regarding their health. The primary issue facing the health sector is the absence of a thorough and user-friendly platform that involves people in proactive health management and provides education and information. Instead of encouraging a culture of prevention and health promotion, traditional healthcare models frequently place a greater emphasis on reactionary interventions or treating problems after they arise.

### Root Cause Analysis:

The primary source of this issue is the dearth of individualized, user-friendly tools that enable people to take control of their health, as well as the restricted availability and accessibility of trustworthy health information. People find it difficult to adopt healthy lifestyles and preventive actions since the resources that are now available are frequently dispersed, overwhelming, or not suited to their specific needs. Furthermore, there is a big communication gap between the general population and healthcare providers. People frequently lack awareness of the significance of proactive health management due to the complicated nature of medical information and its lack of targeted transmission.

### Importance of Addressing the Problem:

Considering the growing burden of preventable diseases, rising healthcare expenses, and the strain on the healthcare infrastructure, the significance of putting in place a Health Awareness System becomes clear. Inadequate health awareness has negative effects on both people and society, ranging from higher rates of morbidity to financial strain on healthcare systems. By tackling this issue, we hope to equip people with the information and resources they need to make wise decisions about their health. A well-thought-out health awareness system has the power to change the paradigm in healthcare from one that is reactive to one that is proactive and preventative, thereby lowering the prevalence of diseases linked to poor lifestyle choices and improving general health. Furthermore, putting in place a thorough Health Awareness System supports a culture of health and is in line with global health initiatives.

## Solution to the Problem

The goal of this project is to create a thorough Health Awareness System (HAS) that closes the current gap in the transmission of health information and encourages preventative healthcare practices. Encouraging a culture of preventive and well-being by providing individualized, dependable, and easily accessible health information is the main objective. The proposed solution involves the development of a user-centric platform that integrates state-of-the-art technology to deliver personalized health information. The system will analyze user data to provide tailored health recommendations. A user-friendly interface, coupled with real-time updates and interactive features, ensures engagement. The solution also integrates with healthcare providers to facilitate seamless communication.

Develop software combining personal healthcare and real-time environmental awareness. Integrate and analyze personal health, environmental, and weather data. User-Friendly Interface:

Ensure an intuitive interface accessible via mobile and desktop devices. This solution addresses the problem effectively by offering a holistic approach to health and environmental awareness. The proposed solution aligns with market demand and can be implemented using existing technologies and data sources. Potential partnerships enhance feasibility and marketability.

## 4. REQUIREMENT SPECIFICATION

### 4.1 System Features

#### **Functional Requirements:**

##### **Free Trials (3 Days):**

- Priority Level: High
- Precondition: None
- Users should be able to register for a free trial of the system, allowing them to access its features for a limited period of 3 days without any cost.
- The system should automatically prompt users to upgrade to a paid subscription after the trial period expires.

##### **Sign Up:**

- Priority Level: High
- Precondition: None
- Users should have the option to create a new account by providing necessary details such as name, email address, and password.

- The system should validate user-provided information during the signup process to ensure accuracy and prevent errors.

#### **Log In:**

- Priority Level: High
- Precondition: None
- Registered users should be able to log in to their accounts using their credentials (email address and password).
- The system should authenticate user login credentials securely.

#### **AI-Powered Assistant:**

- Priority Level: Medium
- Precondition: User must be logged in.
- The system should feature an AI-powered assistant capable of providing personalized health advice, answering user queries, and assisting with navigation within the platform.
- Forget Password:
  - Priority Level: Medium
  - Precondition: None
  - Users should have the option to reset their password in case they forget it.
  - The system should provide a secure process for password recovery, such as sending a reset link to the user's registered email address.

#### **OTP (One-Time Password) Security:**

- Priority Level: High
- Precondition: None
- The system should employ OTP verification as an additional layer of security during the registration, login, and password reset processes.

#### **User Profile:**

- Priority Level: High
- Precondition: User must be logged in.
- Each user should have a profile section where they can view and edit their personal information, preferences, and health-related details.
- Users should be able to update their profile information as needed.

#### **Notification Alerts:**

- Priority Level: High
- Precondition: User must be logged in.

- The system should send notification alerts to users for important events such as medication reminders, appointment reminders, and health-related news updates.

#### **Voice Commands:**

- Priority Level: Medium
- Precondition: User must be logged in.
- The system should support voice commands, allowing users to interact with the platform using spoken instructions.

#### **News Portal:**

- Priority Level: Medium
- Precondition: User must be logged in.
- And so on for the remaining functional requirements.

#### **BMI Calculator:**

- Priority Level: Medium
- Precondition: User must be logged in.
- The system should offer a BMI (Body Mass Index) calculator tool to help users assess their body composition and track changes over time.

#### **Language Selection:**

- Priority Level: Medium
- Precondition: None
- Users should have the option to select their preferred language for the platform's interface and content.

#### **Live Chat Channels:**

- Priority Level: High
- Precondition: User must be logged in.
- The system should provide live chat channels where users can engage in real-time conversations with healthcare professionals, support staff, or other users. Passive & Active Tracking:
- Priority Level: High
- Precondition: User must be logged in.

- The system should support both passive and active tracking of health data, including physical activity, sleep patterns, diet, and other relevant metrics, in real-time. Reservation Appointment (Doctor):
  - Priority Level: High
  - Precondition: User must be logged in.
  - Users should be able to schedule appointments with healthcare providers through the system, including selecting the desired date, time, and medical specialty.
- Helpline:
- Priority Level: High
  - Precondition: None
  - The system should provide access to a helpline or support hotline where users can seek assistance, ask questions, or report issues related to their health or the platform.

#### **Log Out:**

- Priority Level: High
  - Precondition: User must be logged in.
  - Users should have the ability to log out of their accounts securely.
  - The system should provide a "Log Out" button or link prominently displayed in the user interface.
  - Upon clicking the "Log Out" button or link, the system should invalidate the user's session and clear any authentication tokens or cookies associated with the user's login session.
- After logging out, the system should redirect the user to a designated logout confirmation page or the login page to confirm that the logout was successful.



## 4.2 System Quality Attributes

### 1.Security:

- The system should implement robust security measures to protect user data, including encryption of sensitive information and adherence to industry-standard security protocols.

### 2.Reliability:

- The system should be always reliable and available for use, with minimal downtime and errors.

### 3.Performance:

- The system should have optimal performance, with fast response times and scalability to accommodate many concurrent users.

### 5.Usability:

- The system should have a user-friendly interface, intuitive navigation, and clear instructions to ensure ease of use for users of all technical levels.

### 6.Compatibility:

- The system should be compatible with various devices (e.g., desktops, laptops, smartphones) and web browsers to reach a broad user base.

### 7.Data Privacy:

- The system should adhere to data privacy regulations and best practices to safeguard user privacy and confidentiality.

### 8.Accessibility:

- The system should be accessible to users with disabilities, including providing features such as screen reader compatibility and keyboard navigation.

### 9.Scalability:

- The system should be scalable to accommodate future growth in the user base and feature enhancements without compromising performance.

## 4.3 System Interface

9:41



### Recover Password

Please Enter Your Mobile Number

Send OTP

[Resend OTP](#)

9:41



### Recover Password

New Password



Confirm New Password

OTP

Confirm

← Health Tracker

## BMI Calculator

Male

Female

Height

Weight

Calculate BMI →

← Back

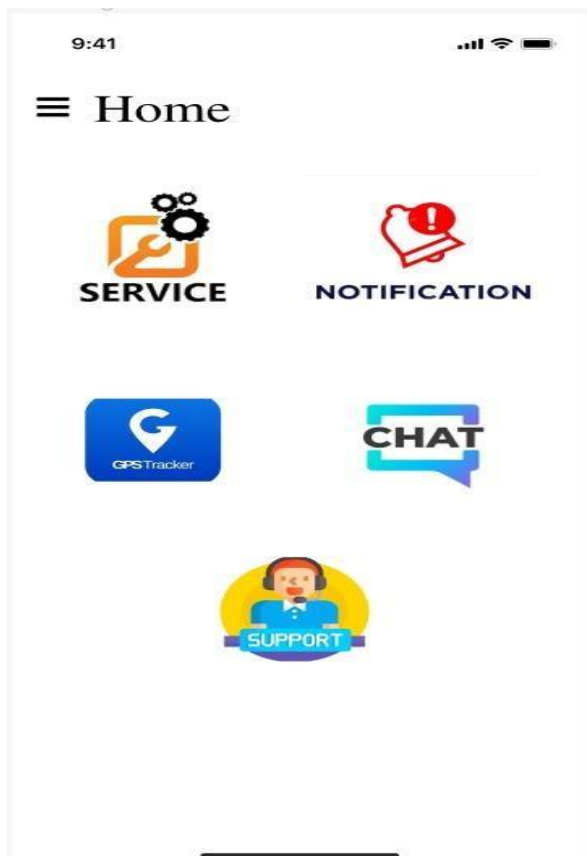
## Your Summary

Your BMI is

**19.5**

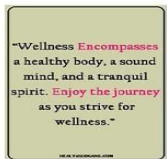
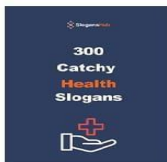
kg/m<sup>2</sup>

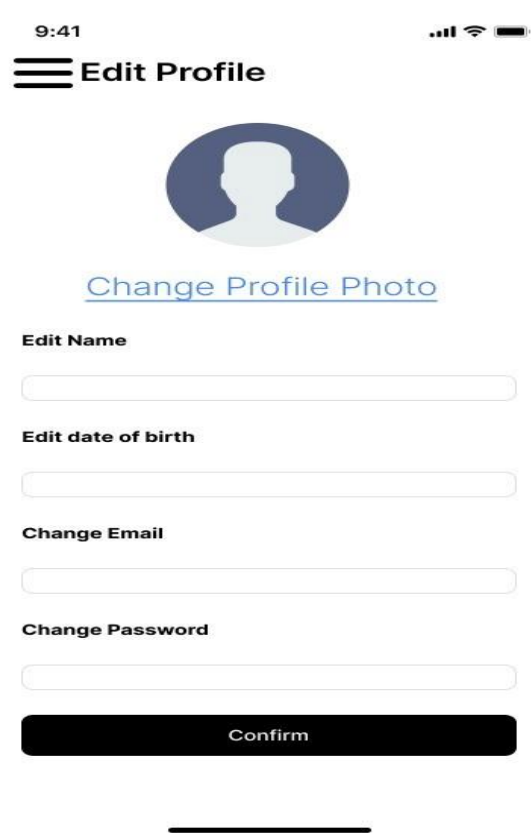
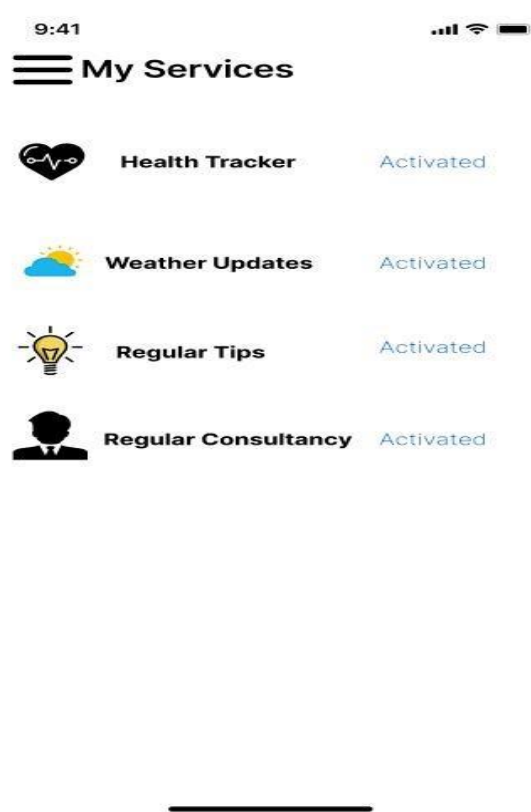
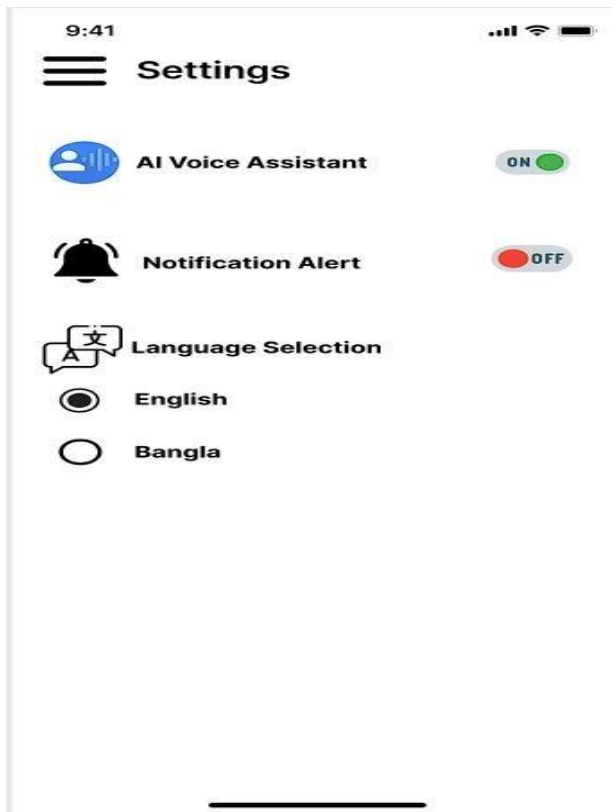
Your BMI is normal



← Back

## News Portal





## 4.4 Project Requirements

### Project Constraints

#### 1. Total Budget:

- The estimated budget for the project is 4,50,000 BDT, which includes costs for development, testing, deployment, and maintenance.

#### 2. Total Development Time:

- The project development duration is estimated at 6 months, with a detailed timeline divided into sprints (as per the Scrum process model).
  - **Sprint Length:** 4 weeks.
  - **Number of Sprints:** 4 (including planning, design, development, and testing phases).

#### 3. Resources:

- **Team Composition:**
  - 1 Scrum Master.
  - 1 Product Owner.
  - 5 Developers (including UI/UX designer and backend specialist).
  - 1 Quality Assurance (QA) Engineer.
- **Tools:** The project requires development tools such as Visual Studio Code, MySQL, and design software like Figma and Adobe Photoshop.

#### 4. Time Allocation:

- **Requirement Analysis:** 2 weeks.
- **Design:** 4 weeks.
- **Development:** 12 weeks (3 months).
- **Testing & Debugging:** 4 weeks.
- **Deployment and Documentation:** 2 weeks.

## 5. Risk Management:

- A two-week buffer period is set aside to handle unanticipated delays or risk reduction.

## 5. FEATURES NOT TO BE TESTED

The project does have features not to be tested requirements. Specifically:

- **Third-party applications or integrations:** Any external tools or systems the users choose to use with the Health Awareness System are outside the project's testing scope.
- **User-modified data or configurations:** Testing the impact of user-customized settings or external data inputs is the responsibility of the users or external developers.
- **Hardware-specific testing:** While the system is designed for cross-platform compatibility, device-specific testing (e.g., unique features of specific phone models) is excluded.

## 6. TESTING APPROACH

### 6.1 Testing Levels

#### Unit Testing

- Unit testing will be carried out by the developers and reviewed by the development team leader. Developers must provide proof of testing, including test case lists, sample outputs, data printouts, and defect reports, to the team leader for approval. Only upon approval will the unit test results be handed over to the testing team. All documentation related to unit testing will also be shared with the testing personnel.

#### System Testing

- System testing will be conducted by the test manager and development team leader with support from developers as needed. Testing will begin once all critical defects have been resolved. However, programs can proceed to this stage with up to two major defects if these do not hinder testing and have viable workarounds. No specific testing tools will be used for this phase.

#### Integration Testing

- Integration testing focuses on verifying the interaction and data flow between different modules of the system. The test manager and development team leader will lead this process, with occasional assistance from the developers. Like system testing, integration

testing will only begin once critical issues have been addressed, and major defects do not obstruct the testing process. No dedicated tools will be employed for this phase.

### Acceptance Testing

- The final stage of testing involves end users working alongside the test manager and development team leader. Acceptance testing will be carried out concurrently with the existing manual ZIP/FAX process for a duration of one month following the completion of system and integration testing. This ensures the system meets real-world operational requirements.

## 6.2 Test Tools

For the Health Awareness System (HAS) mobile application, Appium can be used to automate testing. Appium is an open-source tool that supports both Android and iOS platforms, allowing tests to be written in popular programming languages like Python, Java, or JavaScript.

Appium helps in testing important features like login, notifications, and voice commands on real devices or emulators. This ensures the app works smoothly across different devices and screen sizes. It can also automate repetitive testing tasks, such as checking if the BMI calculator gives accurate results or if appointments are scheduled correctly. Since Appium simulates real user interactions, it ensures the app performs as expected.

## 6.3 Meetings

The test team will meet once every week to evaluate progress to date and to identify error trends and problems as early as possible. The test team leader will meet with development and the project manager once every two weeks as well. These two meetings will be scheduled in different weeks. Additional meetings can be called as required for emergency situations.

## 7. TEST CASES/TEST ITEMS

Project Name: Health Awareness System	Test Designed by: Bishal Paul
Test Case ID: HAS-001	Test Designed date: 18/01/2025
Test Priority (Low, Medium, High): High	Test Executed by: Lida Khan Mukti
Module Name: Sign In Session	Test Execution date: 23/01/2025



Test Title: Verify login with valid username and password				
Description: Test application login page				
Precondition (If any): User must have valid username and password				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Open application 2. Enter username. 3. Enter password. 4. Click submit	Username: Bishal001  Password: 1122	User should login into the application	As expected,	Pass
Post Condition: User is validated with database and successfully login to account. The account session details are logged into the database.				

Project Name: Health Awareness System		Test Designed by: Bishal Paul		
Test Case ID: HAS-002		Test Designed date: 18/01/2025		
Test Priority (Low, Medium, High): High		Test Executed by: Lida Khan Mukti		
Module Name: Sign In Session		Test Execution date: 23/01/2025		
Test Title: verify login with invalid username and password				
Description: Test application login page				
Precondition (If any): User must have valid username and password				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Open application 2. Enter an invalid username. 3. Enter an invalid password. 4. Click submit	Username: Bishal002  Password: 1212	User should not login into the application	As expected,	Pass

Post Condition: User is not validated with database and cannot login to the account. An error message is displayed on the screen.				
Project Name: Health Awareness System		Test Designed by: Bishal Paul		
Test Case ID: HAS-003		Test Designed date: 19/01/2025		
Test Priority (Low, Medium, High): High		Test Executed by: Lida Khan Mukti		
Module Name: Sign Up Session		Test Execution date: 23/01/2025		
Test Title: verify provided information and save to database				
Description: Test application signup page				
Precondition (If any): User must have valid email or phone number				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Open application 2. Click on Signup 3. Enter Full Name 4. Age 5. Blood Group 6. Email 7. Mobile Number 8. Password 9. Click Sign Up	Full Name: Rifa Age: 23 Blood Group: B+ Email: <a href="mailto:rifa01@gmail.com">rifa01@gmail.com</a> Mobile Number: 01745678901 Password: 1231	User should signup into the application	As expected,	Pass
Post Condition: The user's registration information is validated and stored in the database, allowing the user to log in to the application with their newly created account.				

Project Name: Health Awareness System	Test Designed by: Bishal Paul
Test Case ID: HAS-004	Test Designed date: 19/01/2025
Test Priority (Low, Medium, High): High	Test Executed by: Lida Khan Mukti
Module Name: Sign Up Session	Test Execution date: 23/01/2025

Test Title: verify provided information and save to database				
Description: Test application signup page				
Precondition (If any): User must have valid email or phone number				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
Open Application Click on Signup Enter Full Name Age Blood Group Email Mobile Number Password Click Sign Up	Full Name: Rifa Age: 23 Blood Group+ Email: <a href="mailto:rifa01@gmail.com">rifa01@gmail.com</a> Mobile Number: 342222222 Password: 1231	User should signup into the application due to invalid phone number	As expected,	Pass
Post Condition: User is not registered, and an error message is displayed on the screen.				

Project Name: Health Awareness System			Test Designed by: Bishal Paul	
Test Case ID: HAS-005			Test Designed date: 19/01/2025	
Test Priority (Low, Medium, High): Medium			Test Executed by: Lida Khan Mukti	
Module Name: Logout Session			Test Execution date: 23/01/2025	
Test Title: verify user can successfully logout				
Description: Test application logout functionality				
Precondition (If any): User must be logged in				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on the logout button. 2. Verify if the user is redirected to the login page.	N/A	Users should be redirected to the login page after logging out.	As expected,	Pass
Post Condition: User is redirected to the sign in page. Any unsaved data or changes made by the user during the session are saved if applicable. The user's account details are logged out from the database.				

Project Name: Health Awareness System		Test Designed by: Bishal Paul		
Test Case ID: HAS-006		Test Designed date: 19/01/2025		
Test Priority (Low, Medium, High): High		Test Executed by: Lida Khan Mukti		
Module Name: Password Reset Session		Test Execution date: 23/01/2025		
Test Title: verify users can successfully reset their password				
Description: Test application for reset password				
Precondition (If any): User must have valid phone number				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on the forgot password button. 2. Verify if user is redirected to the reset password page.	Mobile Number :01872548674  OTP:2448	Users should be redirected to the login page after resetting password.	As expected,	Pass
Post Condition: User is redirected to the sign in page. Login into the app with user’s new password				

Project Name: Health Awareness System	Test Designed by: Bishal Paul
Test Case ID: HAS-007	Test Designed date: 20/01/2025
Test Priority (Low, Medium, High): High	Test Executed by: Lida Khan Mukti
Module Name: Password Reset Session	Test Execution date: 23/01/2025
Test Title: verify users can successfully reset their password	

Description: Test application for reset password				
Precondition (If any): User must have valid phone number				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on the forgot password button. 2. Verify if user is redirected to the reset password page.	Mobile Number :01872548674  OTP:4228	Users cannot reset their password due to the invalid OTP.	As expected,	Pass
Post Condition: User is redirected to the sign in page. Use must try again				

Project Name: Health Awareness System			Test Designed by: Bishal Paul	
Test Case ID: HAS-008			Test Designed date: 20/01/2025	
Test Priority (Low, Medium, High): High			Test Executed by: Lida Khan Mukti	
Module Name: 3 days Trial Session			Test Execution date: 23/01/2025	
Test Title: verify user can trial this app for 3 days				
Description: Test application for 3 days trial				
Precondition (If any): User must have valid account				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on the 3 days trial button. 2. Verify if the user is redirected to the payment page.	Card Number :258 42852852  CVV code:2448	Users should be using the services of the app	As expected,	Pass
Post Condition: User is redirected to the home page. Can access the services.				

Project Name: Health Awareness System	Test Designed by: Most. Sayma Khatun
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Test Case ID: HAS-009		Test Designed date: 20/01/2025		
Test Priority (Low, Medium, High): High		Test Executed by: Bishal Paul		
Module Name: 3 days Trial Session		Test Execution date: 23/01/2025		
Test Title: verify user can trial this app for 3 days				
Description: Test application for 3 days trial				
Precondition (If any): User must have valid account				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on the 3 days trial button. 2. Verify if the user is redirected to the payment page.	Card Number :258 42852852  CVV code:2858	Users should not be using the services of the app due to invalid card number and cvv code	As expected,	Pass
Post Condition: User is redirected to the Sign in page. Cannot access the services.				

Project Name: Health Awareness System			Test Designed by: Most. Sayma Khatun	
Test Case ID: HAS-010			Test Designed date: 18/01/2025	
Test Priority (Low, Medium, High): High			Test Executed by: Bishal Paul	
Module Name: AI voice Session			Test Execution date: 23/01/2025	
Test Title: Verify the system is controllable over AI voice command.				
Description: Test application’s voice control.				
Precondition (If any): User must have a phone connected with the Wi-Fi or Data Connection.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)

1. Open application. 2. Select voice control. 3. Turn ON voice command. 4. Command the user through voice.	Voice command: Turn off the voice command.	The voice command option should be turned off.	As expected,	Pass
Post Condition: User relates to the system and accesses all the functions using voice command.				

Project Name: Health Awareness System			Test Designed by: Most. Sayma Khatun	
Test Case ID: HAS-011			Test Designed date: 18/01/2025	
Test Priority (Low, Medium, High): Medium			Test Executed by: Bishal Paul	
Module Name: Home Navigating from any page			Test Execution date: 23/01/2025	
Test Title: Verify home navigation from any page				
Description: Test application home navigating page				
Precondition (If any): User must be logged into the application.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Open Application. 2. Go to any page in the application. 3. Click on three dots on the top left. 4. Click on the home page button.		A home page appeared.	As expected,	Pass
Post Condition: User can come to home page from any of the page of the application.				

Project Name: Health Awareness System	Test Designed by: Most. Sayma Khatun
Test Case ID: HAS-012	Test Designed date: 18/01/2025

Test Priority (Low, Medium, High): Medium		Test Executed by: Bishal Paul		
Module Name: Settings Session		Test Execution date: 23/01/2025		
Test Title: Verify Settings action				
Description: Test application settings page				
Precondition (If any): User is logged in and on the Settings Panel page.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Open Application. 2. Click on the three dots option. 3. Go to the settings page. 4. Select what you want to change or set.	Action: Language changed into English.	All the data and information will be showed in English.	As expected,	Pass
Post Condition: User can make any change or set something new. All the changes and new data will be saved into the users database.				

Project Name: Health Awareness System		Test Designed by: Most. Sayma Khatun		
Test Case ID: HAS-013		Test Designed date: 19/01/2025		
Test Priority (Low, Medium, High): Medium		Test Executed by: Bishal Paul		
Module Name: Notification Panel		Test Execution date: 23/01/2025		
Test Title: Verify new notifications appear in the notification panel				
Description: Test the functionality of the notification panel that displays new notifications for the user.				
Precondition (If any): The user must be logged in to the application.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)



<ol style="list-style-type: none"> <li>1. Open the application and log in with valid credentials.</li> <li>2. Check if the notification panel is empty.</li> <li>3. Trigger notification, e.g., receive a message, receive new tips, receive important news, reminders etc.</li> <li>4. Check if the notification appears in the notification panel.</li> <li>5. Click on the notification to view its details.</li> </ol>	N/A	The details of the notification should be displayed when clicked	As expected,	Pass
Post Condition: The user is notified of the relevant information according to their preferences and the notification details are stored in the database.				

Project Name: Health Awareness System		Test Designed by: Most. Sayma Khatun		
Test Case ID: HAS-014		Test Designed date: 19/01/2025		
Test Priority (Low, Medium, High): Medium		Test Executed by: Bishal Paul		
Module Name: Support Panel Session		Test Execution date: 23/01/2025		
Test Title: Verify support action				
Description: Test application support page				
Precondition (If any): User must be logged in and have access to the support panel.				
Test Steps	Test Data	Expected Results	Actual Result	Status (Pass/Fail)

<ol style="list-style-type: none"> <li>1. Open Application.</li> <li>2. Click on three dots on the top left.</li> <li>3. Go to the support page.</li> <li>4. Enter any questions related to the software.</li> <li>5. Click on the send button.</li> </ol>	Question: How can I reset my password?	Your question is successfully submitted to the support panel. They will tell you about the possible ways in a few seconds.	As expected,	Pass
Post Condition: User can ask anything frequently and that question will be passed to the support panel initially. The data is also recorded into the database simultaneously. When the answer is generated from the support panel the answer will be recorded into the database and passed the integrated data to the user as fast as possible.				

Project Name: Health Awareness System		Test Designed by: Most. Sayma Khatun		
Test Case ID: HAS-015		Test Designed date: 19/01/2025		
Test Priority (Low, Medium, High): Medium		Test Executed by: Bishal Paul		
Module Name: BMI calculation		Test Execution date: 23/01/2025		
Test Title: BMI calculation accuracy test.				
Description: Body Mass Index calculator tool				
Precondition (If any): User must know height and weight				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Open Application. 2. Select BMI option. 3. Enter height and weight. 4. Click calculate BMI.	Question: N/A	The BMI value is accurately calculated and displayed.	As expected,	Pass

Post Condition: Properly computed and provided BMI value for health evaluation purposes.

Project Name: Health Awareness System		Test Designed by: Most. Sayma Khatun		
Test Case ID: HAS-016		Test Designed date: 20/01/2025		
Test Priority (Low, Medium, High): Medium		Test Executed by: Bishal Paul		
Module Name: GPS tracker		Test Execution date: 23/01/2025		
Test Title: GPS tracker functionality test				
Description: Tracking location in real-time using GPS.				
Precondition (If any): The GPS tracker device is properly installed and configured on the device.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Open Application. 2. Select the GPS tracking option. 3. Go to the search page. 4. Enter what place you want to search. 5. Click on the search button.	Location: Kuratoli, Dhaka.	Location found and generated the possible ways successfully.	As expected,	Pass
Post Condition: User can search any location and find the information according to his search. The searched location will be displayed on the phone screen. All the information related to the searched location will also be displayed. All the searched location and information related to the search will be recorded into the dataset for future use.				

Project Name: Health Awareness System		Test Designed by: Lida Khan Mukti		
Test Case ID: HAS-017		Test Designed date: 20/01/2025		
Test Priority (Low, Medium, High): High		Test Executed by: Most. Sayma Khatun		
Module Name: Services.		Test Execution date: 23/01/2025		
Test Title: Services module functionality test.				
Description: This module aims to test the functionality and reliability of various services integrated into the Health Awareness System, ensuring absolute performance and accurate results.				
Precondition (If any): The Health Awareness System is properly installed and configured on the testing environment and the user must be logged in to the application.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Open Application. 2. Click on three dots on the top left. 3. Select Service option.	Health tracker, Weather updates, Regular tips, Regular consulting.	Users can access and utilize integrated services perfectly, enhancing their health awareness experience.	As expected,	Pass
Post Condition: The Health Awareness System module operates effectively with all services functioning as expected.				

Project Name: Health Awareness System		Test Designed by: Lida Khan Mukti		
Test Case ID: HAS-018		Test Designed date: 18/01/2025		
Test Priority (Low, Medium, High): Medium		Test Executed by: Most. Sayma Khatun		
Module Name: News Portal		Test Execution date: 23/01/2025		

Test Title: Check daily health and weather news.				
Description: Verify that the news site connectivity allows access to daily health updates and weather predictions.				
Precondition (If any): The user must be logged in to the application.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
<ol style="list-style-type: none"> <li>1. Open Application.</li> <li>2. Click on three dots on the top left.</li> <li>3. Select News Portal option.</li> </ol>	N/A	Weather predictions and regular health updates are smoothly linked and displayed with accuracy.	As expected,	Pass
Post Condition: Users are informed and updated on current health and weather conditions.				

Project Name: Health Awareness System	Test Designed by: Lida Khan Mukti
Test Case ID: HAS-017	Test Designed date: 18/01/2025
Test Priority (Low, Medium, High): High	Test Executed by: Most. Sayma Khatun
Module Name: Edit Profile	Test Execution date: 23/01/2025
Test Title: Profile Editing Functionality Test.	
Description: This module aims to test the functionality and reliability of the profile editing feature within the Health Awareness System, ensuring users can modify their profiles accurately.	

Precondition (If any): Users must be logged into their accounts within the Health Awareness System to access the profile editing feature.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Open Application. 2. Click on three dots on the top left. 3. Modify one or more profile fields, such as name, email, or profile picture. 4. Save the changes and verify that the updated profile information is reflected accurately.	Updated Profile Information, Invalid Data, User Preferences.	Profile changes saved accurately, reflected instantly in user profile, with appropriate error handling.	As expected,	Pass
Post Condition: The user's profile is updated and accurately reflects the changes made during the profile editing process.				

Project Name: Health Awareness System	Test Designed by: Lida Khan Mukti
Test Case ID: HAS-020	Test Designed date: 18/01/2025
Test Priority (Low, Medium, High): Medium	Test Executed by: Most. Sayma Khatun
Module Name: Language Selection Session	Test Execution date: 23/01/2025
Test Title: Verify Language Selection Functionality	
Description: Test the ability of users to select their preferred language for the platform's interface and content.	
Precondition (If any): User must be logged in.	

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
<ol style="list-style-type: none"> <li>1. Open the application/platform.</li> <li>2. Locate and click on the language selection option.</li> <li>3. Select a language from the dropdown menu.</li> <li>4. Verify the application of the selected language to the interface and content.</li> <li>5. Navigate to different sections to confirm language consistency.</li> </ol>	Language changed into Bangla.	There will be Bangla-language displays all the data and content.	As expected,	Pass
Post Condition: User can make any change. All the changes and new data will be saved into the users database.				

Project Name: Health Awareness System			Test Designed by: Lida Khan Mukti	
Test Case ID: HAS-021			Test Designed date: 19/01/2025	
Test Priority (Low, Medium, High): High			Test Executed by: Most. Sayma Khatun	
Module Name: Reservation Appointment (Doctor) Session			Test Execution date: 23/01/2025	
Test Title: Verify Reservation Appointment Functionality				
Description: Test the ability of users to schedule appointments with healthcare providers through the system, including selecting the desired date, time, and medical specialty.				
Precondition (If any): User must be logged in.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)

1. Open the application. 2. Navigate to the appointment reservation section. 3. Select the desired date and time for the appointment. 4. Choose the medical specialty of the healthcare provider. 5. Confirm the appointment reservation.	Desired date and time and the medical specialty of the healthcare provider.	The appointment is successfully scheduled.	As expected,	Pass
Post Condition: Appointment details are saved in the system database.				

Project Name: Health Awareness System			Test Designed by: Lida Khan Mukti	
Test Case ID: HAS-022			Test Designed date: 19/01/2025	
Test Priority (Low, Medium, High): High			Test Executed by: Most. Sayma Khatun	
Module Name: Live Chat Channels Session			Test Execution date: 23/01/2025	
Test Title: Verify Live Chat Functionality				
Description: Test the ability of users to engage in real-time conversations with healthcare professionals, support staff, or other users through live chat channels.				
Precondition (If any): User must be logged in.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)



1. Open the application. 2. Select a live chat channel. 3. Engage in a real-time conversation with other users or healthcare professionals. 4. Verify the functionality of chat features such as sending messages support, and file attachments	Messages, emojis, files.	Chat features work smoothly without any errors.	As expected,	Pass
Post Condition: User can exit the live chat channel.				

Project Name: Health Awareness System		Test Designed by: Lida Khan Mukti		
Test Case ID: HAS-023		Test Designed date: 20/01/2025		
Test Priority (Low, Medium, High): High		Test Executed by: Most. Sayma Khatun		
Module Name: Helpline Session		Test Execution date: 23/01/2025		
Test Title: Verify Helpline Functionality				
Description: Test the accessibility and functionality of the helpline or support hotline feature, allowing users to seek assistance, ask questions, or report issues related to their health or the platform.				
Precondition (If any): None				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)

1. Access the helpline feature within the application/platform. 2. Verify the availability of contact options (phone number, email, chat support, etc.). 3. Attempt to initiate contact through one of the available options (e.g., make a call, send an email, start a chat). 4. Seek assistance, ask questions, or report an issue to the helpline representative. 5. Verify the responsiveness and professionalism of the helpline representative.	Contact option- make a call, send an email, start a chat.	Helpline representative provides helpful assistance or acknowledges the reported issue.	As expected,	Pass
Post Condition: User receives satisfactory assistance or resolution from the helpline.				

## 8. ITEM PASS/FAIL CRITERIA

- The Item Pass/Fail Criteria for the Health Awareness System (HAS) project will be based on the successful execution of test cases. A test case is considered a Pass if 100% of its steps yield expected results and align with the outlined functionality, such as correct login, accurate BMI calculation, or successful profile updates. If any step produces incorrect results, fails to execute, or triggers unexpected behavior, the test case is marked as Fail. The system requires at least 90% of the test cases for each module (e.g., login, notifications, GPS tracking) to pass for the feature to be approved for deployment. Any module with less than 90% success must undergo debugging and retesting to ensure reliability before release.

## 9. TEST DELIVERABLES

The following deliverables will be produced during the testing phase of the Health Awareness System (HAS) project to ensure thorough validation of the system and its functionalities:

- **Acceptance Test Plan:** A detailed plan outlining the criteria and procedures for user acceptance testing to ensure the system meets business and user requirements.
- **System/Integration Test Plan:** Documentation that describes the approach for testing the integration of modules and the overall system functionality to verify seamless operation.
- **Unit Test Plans/Turnover Documentation:** Test cases and results for individual components or units of the system, along with detailed turnover documentation to ensure each unit functions as intended.
- **Screen Prototypes:** Visual prototypes of user interface screens to validate the design, usability, and alignment with user expectations.
- **Report Mock-ups:** Drafts of system-generated reports, including health insights, BMI calculations, appointment summaries, and real-time tracking data, to confirm the accuracy and format.
- **Defect/Incident Reports and Summaries:** Comprehensive logs and summaries of defects or incidents identified during testing, including their severity, impact, and resolution status.
- **Test Logs and Turnover Reports:** Logs detailing executed test cases, results, and any issues encountered during testing, alongside turnover reports for ensuring smooth handoffs between testing phases.

## 10. STAFFING AND TRAINING NEEDS

For the Health Awareness System (HAS) project, having a dedicated tester is important. At the start, a part-time tester should be involved in planning and reviewing the project. After about four months, this person should work full-time to test the system thoroughly. If a separate tester is not available, the project manager or test manager can take on this role.

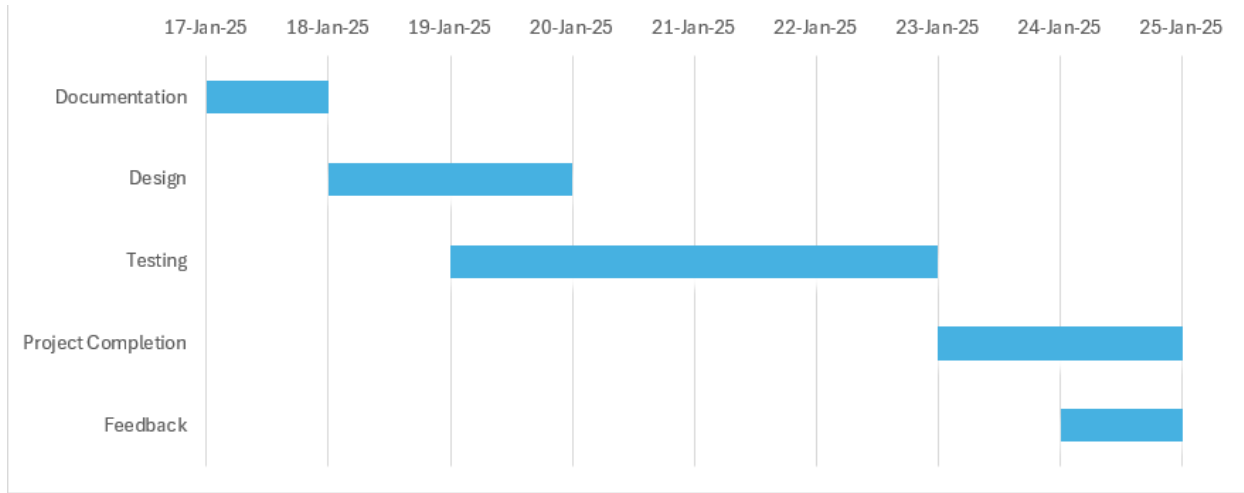
### Training Needs

- **Developers and Testers:** They need training on how the system works, including features like the AI assistant, GPS tracking, and notifications. They should also learn to use testing tools like Appium for mobile apps.
- **Operations Staff:** Before the project is finished, the operations team will need to learn how to handle system processes, such as sending notifications and managing user data.
- **Sales Administration Staff:** This team will be trained to use the new system, screens and reports, making it easier to support users and manage information.

## 11.RESponsibilities

Task	TM	PM	Dev Team	Test Team	Client
Acceptance Test Documentation & Execution	X	X		X	X
System/Integration Test Documentation & Execution	X	X	X	X	
Unit Test Documentation & Execution			X		
System Design Reviews		X	X		X
Detail Design Reviews	X	X	X		X
Test Procedures and Rules	X	X		X	
Screen & Report Prototype Reviews		X		X	X
Change Control and Regression Testing	X	X	X	X	X

## 12.TESTING SCHEDULE



## 13. PLANNING RISKS AND CONTINGENCIES

One risk for the Health Awareness System (HAS) project is a shortage of sales administration staff. With two unfilled positions, there could be delays in reviewing documents and participating in the acceptance testing process. This might push back important project deadlines.

To handle this, timelines will be adjusted as needed, but no part of the review or testing process will be skipped. Regular communication with the client and team members will ensure everyone is informed about any changes, helping to keep the project on track.

## 14.APROVALS

Role	Name
Project Sponsor	John Sponsor
Project Manager	Alice Project
Development Team Lead	Eve Developer
Test Manager	Tom Tester
UI/UX Designer	Sophia Designer
Client Representative	David Client