AMERICAN INTERNATIONAL UNIVERSITYBANGLADESH (AIUB)

FACULTY OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Software Engineering

Spring 23-24

Section: K

Project Test Planning of

HealthSync Hub

Supervised By

TONNY SHEKHA KAR

Submitted By

NAME	ID
1. TAUHID HASAN	22-46438-1
2. MOSTAFIJUR RAHMAN	22-47161-1
3. EFFAT MUKAROM	22-48161-2
4. DEBABRATA BASAK	21-45946-3

Date of Submission: 18ᵗʰ April 2024

Project Name: HealthSync Hub		Test Designed by: Tauhid Hasan		
Test Case ID: HSH_01		Test Designed date: 16/04/2024		
Test Priority (Low, Medium, High): High		Test Executed by: Tauhid hasan		
Module Name: Registration		Test Execution date: 17/04/2024		
Test Title: Register with unique username, email address, and password				
Description: This test verifies the registration process on the software's registration page.				
Precondition (If any): The user must provide all required information with uniqueness and validation.				
Test Steps	Test Data	Expected Results	Actual Results	Status
1.Go to software 2.Fill-up all the section 3.Check username and email 4.Click register	Username: tauhid811 Email: tauhid@gmail.com Password: 12&h*A Confirm Password: 12&h*A	User should be able to complete the registration process successfully, and all information should be stored in the database for further validation.	As expected.	Pass
Post Condition: All information stored in database for further validation				

.

Project Name: HealthSync Hub		Test Designed by: Tauhid Hasan		
Test Case ID: HSH_02		Test Designed date: 16/04/2024		
Test Priority (Low, Medium, High): High		Test Executed by: Tauhid hasan		
Module Name: Login		Test Execution date: 17/04/2024		
Test Title: Login with username and password				
Description: This test verifies the login functionality of the software using valid credentials.				
Precondition (If any): User must be registered and have valid login credentials.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1.Go to software 2.Click user icon 3.Enter username and password 4.Click login button	Username: tauhid811 Password: 12&h*A	User should be able to log in successfully and access the dashboard.	As expected.	Pass
Post Condition: User is logged in and has access to the dashboard.				

Project Name: HealthSync Hub		Test Designed by: Tauhid Hasan		
Test Case ID: HSH_03		Test Designed date: 16/04/2024		
Test Priority (Low, Medium, High): High		Test Executed by: Tauhid hasan		
Module Name: Forgot password		Test Execution date: 17/04/2024		
Test Title: Password reset				
Description: Test software forgot password page				
Precondition (If any): User must fill-up all the requirements with uniqueness and validation				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1.Go to software 2. Forgot password 3. Enter mail address 4. Enter code form mail 5. Click Continue 6. Enter new password 7. Reenter new password 8. Click update password	Email: tauhid@gmail.com Enter 4 Digits code : 5301 Password : rjgE12&h*A Confirm Password : rjgE12&h*A	User should be able to reset password	As expected.	Pass
Post Condition: All information stored in database for further validation				

Project Name: HealthSync Hub		Test Designed by: Tauhid Hasan		
Test Case ID: HSH_04		Test Designed date: 16/04/2024		
Test Priority (Low, Medium, High): High		Test Executed by: Tauhid hasan		
Module Name: DocTalk (AI-based Chat)		Test Execution date: 17/04/2024		
Test Title: Test the functionality of the "DocTalk" button				
Description: This test verifies the functionality of the "DocTalk" button, which initiates an AI-based chat with a healthcare professional.				
Precondition (If any): User must be logged in and have access to the "DocTalk" feature.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
Test Steps: 1. Log in to HealthSync Hub. 2. Click "DocTalk" button. 3. Input message "Experiencing headaches." 4. Check response to symptoms: fever, cough, fatigue. 5. Verify relevant advice provided. 6. Test first aid query: "Minor burn advice." 7. Confirm smooth chat functionality. 8. Test responsiveness on different devices.	Message: "Headaches for a week." - Symptoms: Fever, cough, fatigue - First Aid Query: "Minor burn advice."	User should be able to initiate a chat with a healthcare professional via the "DocTalk"	As expected.	Pass
Post Condition: The user successfully communicates with the AI-based chatbot via the "DocTalk" button, receiving relevant advice or information as needed.				

Project Name: HealthSync Hub		Test Designed by: Tauhid Hasan		
Test Case ID: HSH_05		Test Designed date: 16/04/2024		
Test Priority (Low, Medium, High): High		Test Executed by: Tauhid hasan		
Module Name: Online Consultation Booking		Test Execution date: 17/04/2024		
Test Title: Test the functionality of online consultation booking				
Description: This test verifies the functionality of booking online consultations with healthcare professionals.				
Precondition (If any): Logged in with access to Find Doctor feature				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Log in. 2. Go to online consultation booking. 3. Select doctor, date, and time. 4. Click "Book Consultation." 5. Verify successful booking. 6. Check for confirmation message/email. 7. Test joining consultation (if applicable). 8. Confirm smooth functionality.	Doctor: Dr. Smith - Date: [20/04/2024] - Time: [5.00 pm]	User should be able to registration	As expected.	Pass
Post Condition: User successfully books an online consultation with the selected doctor.				

Project Name: HealthSync Hub	Test Designed by: Tauhid Hasan
Test Case ID: HSH_06	Test Designed date: 16/04/2024
Test Priority (Low, Medium, High): High	Test Executed by: Tauhid hasan
Module Name: Online Consultation with Doctor	Test Execution date: 17/04/2024

Test Title: Test the functionality of online consultation with a doctor

Description: This test verifies the functionality of the online consultation feature, allowing users to consult with a doctor remotely within HealthSync Hub.

Precondition: User must be logged in and have access to the HealthSync Hub platform.

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Log in. 2. Go to Online Consultation. 3. Initiate new consultation. 4. Select doctor or allow system to assign. 5. Provide consultation details and medical history. 6. Specify date and time. 7. Confirm consultation request. 8. Await confirmation and scheduling. 9. Join consultation at scheduled time. 10. Conduct consultation. 11. Verify smooth session. 12. Follow doctor's instructions. 13. Ensure secure session. 14. Check for follow-up actions. 15. Confirm consultation closure.	None	User should be able to successfully initiate and conduct an online consultation with a doctor.	As expected.	Pass

Post Condition: User successfully books an online consultation with the selected doctor.

Project Name: HealthSync Hub	Test Designed by: Tauhid Hasan
Test Case ID: HSH_07	Test Designed date: 16/04/2024
Test Priority (Low, Medium, High): High	Test Executed by: Tauhid hasan
Module Name: Physical Appointment Booking	Test Execution date: 17/04/2024

Test Title: Test the functionality of physical appointment booking

Description: This test verifies the functionality of booking physical appointments with healthcare professionals.

Precondition (If any): User must be logged in and have access to the physical appointment booking feature

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Log in. 2. Go to physical appointment booking. 3. Select doctor, date, and time. 4. Click "Book Appointment." 5. Verify successful booking. 6. Check for confirmation message/email. 7. Test viewing and managing appointments. 8. Confirm smooth functionality.	Doctor: Dr. Johnson - Date: [21/04/2024] - Time: [7.00 pm]	User should be able to successfully book a physical appointment with the selected doctor.	As expected.	Pass

Post Condition: User successfully books a physical appointment with the selected doctor.

Project Name: HealthSync Hub		Test Designed by: Tauhid Hasan			
Test Case ID: HSH_08		Test Designed date: 16/04/2024			
Test Priority (Low, Medium, High): High		Test Executed by: Tauhid hasan			
Module Name: Exercise Plan		Test Execution date: 17/04/2024			
Test: Title Test the functionality of exercise plan generation					
Description: This test verifies the functionality of generating personalized exercise plans for users.					
Precondition (If any): User must be logged in and have access to the exercise plan feature					
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)	
1. Log in. 2. Go to Exercise Plan. 3. Input profile details and goal. 4. Click "Generate Plan." 5. Verify personalized plan. 6. Test save/download feature. 7. Confirm alignment with user's profile and goal.	User Profile: Age: 30, Gender: Male, Fitness Level: Beginner Goal: Weight Loss Expected Results: User should receive a personalized exercise plan tailored to their profile and goal.	User should receive a personalized exercise plan tailored to their profile and goal.	As expected.	Pass	
Post Condition: User receives a personalized exercise plan for weight loss.					

Project Name: HealthSync Hub		Test Designed by: Tauhid Hasan			
Test Case ID: HSH_09		Test Designed date: 16/04/2024			
Test Priority (Low, Medium, High): Medium		Test Executed by: Tauhid hasan			
Module Name: Step count		Test Execution date: 17/04/2024			
Test: Title Test the functionality of number of step counter generation					
Description: This test verifies the functionality of generating step count for users.					
Precondition (If any): User must be logged in and have access to the exercise plan feature					
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)	
1. Log in. 2. Go to Exercise Plan. 3. Input profile details and goal. 4. Click "Generate Plan." 5. Check step count .	None	User should be able to see this daily steps	As expected.	Pass	
Post Condition: User receives a personalized daily targeted plan for weight loss.					

Project Name: HealthSync Hub		Test Designed by: Tauhid Hasan			
Test Case ID: HSH_10		Test Designed date: 16/04/2024			
Test Priority (Low, Medium, High): High		Test Executed by: Tauhid hasan			
Module Name: Lab Test		Test Execution date: 17/04/2024			
Test: Test the functionality of lab test request and report retrieval					
Description: This test verifies the functionality of requesting lab tests and retrieving test reports.					
Precondition : User must be logged in and have access to the lab test feature.					
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)	
1. Log in. 2. Go to Lab Test. 3. Select test type and date. 4. Click "Request Test." 5. Confirm successful submis-	Test Type: Blood Test Test Date: 22/04/2024	User should be able to successfully request a lab test and retrieve the	As expected.	Pass	

s ion. 6. Await appointment confirm-ation. 7. Return to Lab Test section. 8. Retrieve and verify test report.		test report.		
Post Condition: User successfully requests a lab test and retrieves the associated test report.				

Project Name: HealthSync Hub	Test Designed by: Tauhid Hasan
Test Case ID: HSH_11	Test Designed date: 16/04/2024
Test Priority : Medium	Test Executed by: Tauhid hasan
Module Name: Home Sample Collection for Lab Tests	Test Execution date: 17/04/2024

Test Title: Test the functionality of requesting lab tests with home sample collection

Description: This test verifies the functionality of requesting lab tests where samples are collected from home.

Precondition: User must be logged in and have access to the HealthSync Hub platform..

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Log in. 2. Go to Lab Test. 3. Select home sample collection option. 4. Provide test details and address. 5. Confirm request. 6. Await appointment confirmation. 7. Verify sample collection. 8. Await test results. 9. Confirm availability of test results.	Test Type: Blood Test Suitable Date for sample : 22/04/2024	User should be able to successfully request lab tests with home sample collection..	As expected.	Pass
Post Condition: User successfully requests lab tests with home sample collection and receives the test results.				

Project Name: HealthSync Hub	Test Designed by: Tauhid Hasan
Test Case ID: HSH_12	Test Designed date: 16/04/2024
Test Priority (Low, Medium, High): High	Test Executed by: Tauhid hasan
Module Name: Lab Test Payment	Test Execution date: 17/04/2024

Test Title: Test the functionality of payment for lab tests

Description: This test verifies the functionality of the payment process for lab tests within HealthSync Hub.

Precondition: User must be logged in and have access to the HealthSync Hub platform.

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Log in to HealthSync Hub. 2. Go to Lab Test. 3. Select test. 4. Proceed to payment. 5. Enter payment details. 6. Confirm payment. 7. Verify payment success. 8. Check for confirmation message. 9. Confirm updated test status. 10. Verify access to test results.	None	User should be able to successfully make a payment for lab tests.	As expected.	Pass
Post Condition: User successfully makes a payment for lab tests and gains access to the test results.				

Project Name: HealthSync Hub		Test Designed by: Tauhid Hasan		
Test Case ID: HSH_13		Test Designed date: 16/04/2024		
Test Priority (Low, Medium, High): High		Test Executed by: Tauhid Hasan		
Module Name: Online Medicine Ordering		Test Execution date: 17/4/2024		
Test: Test the functionality of the online medicine order button				
Description: This test verifies the functionality of ordering medicine online through the HealthSync Hub platform.				
Precondition: User must be logged in and have access to the online medicine ordering feature.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Log in. 2. Go to Online Medicine Ordering. 3. Search and select medication. 4. Enter quantity and click "Order Now." 5. Confirm successful order placement. 6. Await delivery and verify received medication.	Medication: Paracetamol Quantity: 1 box (10 tablets) Expected Results: User should be able to successfully order medicine online.	User should be able to successfully request a lab test and retrieve the test report.	As expected.	Pass
Post Condition: User successfully orders medicine online and receives the ordered medication.				

Project Name: HealthSync Hub		Test Designed by: Tauhid Hasan		
Test Case ID: HSH_14		Test Designed date: 16/04/2024		
Test Priority (Low, Medium, High): High		Test Executed by: Tauhid Hasan		
Module Name: User Profile View		Test Execution date: 17/4/2024		
Test: Test the functionality of viewing user profile				
Description: This test verifies the functionality of accessing and viewing user profile details.				
Precondition: User must be logged in and have access to the user profile feature.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Log in. 2. Go to User Profile. 3. Verify that the user's profile information is displayed, including: • Name • Age • Gender • Contact Information • Medical History • Allergies (if any) • Current Medications • Fitness Goals 4. Confirm security of sensitive information.	None	User should be able to successfully view their profile information.	As expected.	Pass
Post Condition: User successfully views their profile information.				

Project Name: HealthSync Hub			Test Designed by: Tauhid Hasan		
Test Case ID: HSH_15			Test Designed date: 16/04/2024		
Test Priority (Low, Medium, High): High			Test Executed by: Tauhid Hasan		
Module Name: My Doctor Button			Test Execution date: 17/4/2024		
Test: Test the functionality of the "My Doctor" button					
Description: This test verifies the functionality of accessing and viewing user's assigned doctor details.					
Precondition: User must be logged in and have access to the "My Doctor" feature.					
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)	
1. Log in. 2. Go to User Profile. 3. Click "My Doctor" button 4. Verify doctor details. 5. Confirm security of sensitive information.	None	User should be able to successfully view details of their assigned doctor.	As expected.	Pass	
Post Condition: User successfully views details of their assigned doctor.					

Project Name: HealthSync Hub			Test Designed by: Tauhid Hasan		
Test Case ID: HSH_16			Test Designed date: 16/04/2024		
Test Priority (Low, Medium, High): High			Test Executed by: Tauhid Hasan		
Module Name: All Records			Test Execution date: 17/4/2024		
Test: Test functionality of "All Records" section and "Upload Record" button					
Description: This test verifies the functionality of accessing and uploading records within the "All Records" section.					
Precondition: User must be logged in and have access to the "All Records" feature.					
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)	
1. Log in. 2. Go to User Profile. 3. Click "All Records" section. 4. Verify existing records. 5. Click "Upload Record" button 6. Select file and upload. 7. Confirm successful upload and record addition. 8. Check for viewing/managing options. 9. Confirm security of uploaded records.	None	User should be able to successfully access all records and upload new records.	As expected.	Pass	
Post Condition: User successfully views details of their assigned doctor.					

Project Name: HealthSync Hub			Test Designed by: Tauhid Hasan		
Test Case ID: HSH_17			Test Designed date: 16/04/2024		
Test Priority (Low, Medium, High): High			Test Executed by: Tauhid Hasan		
Module Name: Settings			Test Execution date: 17/4/2024		
Test Title: Test the functionality of the Settings					
Description: This test verifies the accessibility and functionality of the Settings section within HealthSync Hub.					
Precondition: User must be logged in or have access to the HealthSync Hub platform.					
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)	

1. Log in. 2. Go to User Profile. 3. Go to Settings. 4. Verify page load. 5. Review and modify settings. 6. Save changes. 7. Confirm successful application. 8. Test accessibility of different sections. 9. Confirm accessibility from any platform page.	None	User should be able to access and configure various settings according to their preferences.	As expected.	Pass

Post Condition: User successfully accesses and configures settings according to their preferences.

Project Name: HealthSync Hub	Test Designed by: Tauhid Hasan
Test Case ID: HSH_18	Test Designed date: 16/04/2024
Test Priority (Low, Medium, High): High	Test Executed by: Tauhid Hasan
Module Name: Help Center	Test Execution date: 17/4/2024

Test Title: Test the functionality of the Help Center

Description: This test verifies the accessibility and effectiveness of the Help Center feature within HealthSync Hub.

Precondition: User must be logged in or have access to the HealthSync Hub platform.

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Log in or go to platform homepage. 2. Click Help Center button. 3. Click and verify page load. 4. Review available sections. 5. Select category or search for topic. 6. Confirm relevant assistance. 7. Test contact/support options. 8. Confirm accessibility from any platform page.	None	User should be able to easily access the Help Center and find relevant assistance for their inquiries.	As expected.	Pass

Post Condition: User successfully accesses the Help Center and finds relevant assistance for their inquiry.

Project Name: HealthSync Hub	Test Designed by: Tauhid Hasan
Test Case ID: HSH_19	Test Designed date: 16/04/2024
Test Priority (Low, Medium, High): High	Test Executed by: Tauhid Hasan
Module Name: Privacy Policy	Test Execution date: 17/4/2024

Test: Test the accessibility and content of the privacy policy

Description: This test verifies the accessibility and content of the privacy policy within HealthSync Hub..

Precondition: User must be logged in or have access to the HealthSync Hub platform.

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)

1. Log in or go to platform homepage. 2. Locate privacy policy link/button. 3. Click and verify page load. 4. Review content for completeness. 5. Check for updates. 6. Confirm accessibility from any platform page.	None	User should be able to successfully access all records and upload new records.	As expected.	Pass
Post Condition: User successfully accesses and reviews the privacy policy.				