



# American International University-Bangladesh (AIUB)

Department of Computer Science

Faculty of Science & Technology (FST)

Spring 23 24

Section: B

Software Quality Assurance and Testing

**Green Dhaka**

A Report submitted  
By

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Date: 13.05.2024

# Software Test Plan

for

## Green Dhaka

Version 1.0 approved

Prepared by Badhon Nath Joy, Nadim bin Hossain

American International University-Bangladesh

14/05/24

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## Revision History

Revision	Date	Updated by	Update Comments
0.1	2024.05.01	Badhon Nath Joy	Initial Document
0.2	2024.05.03	Nadim Bin Hossain	First Draft
0.3	2024.05.05	Badhon Nath Joy	Second Draft
0.4	2024.05.08	Nadim Bin Hossain	Updated Requirement
0.5	2024.05.10	Badhon Nath Joy	Updated Test Cases
0.6	2024.05.11	Nadim Bin Hossain	Final Revision

## 1. TEST PLAN IDENTIFIER: [RS-MTP01.3](#)

## 2. REFERENCES

- Software Quality and Testing Course PowerPoint Slides
- Software Requirement documentation
- Software Requirements Specification (SRS) Document

## 3. INTRODUCTION

### Background to the Problem

- Dhaka, the capital city of Bangladesh, faces significant challenges, notably the scarcity of green spaces and high unemployment rates. The absence of parks or trees contributes to the city's dull appearance and environmental degradation. Moreover, a considerable portion of the population struggles with unemployment despite possessing skills and willingness to work. These issues not only affect the city's aesthetics and environmental health but also impact the livelihoods of its residents.
- The root cause of Dhaka's problems lies in the lack of green spaces and inadequate employment opportunities. Rapid urbanization and industrialization have led to the depletion of green areas, while the mismatch between skills and job availability exacerbates unemployment. It's crucial to address these challenges as they impact the city's livability, environmental sustainability, and economic prosperity. Green Dhaka aims to tackle these issues by utilizing rooftops to create green spaces, enhancing the city's aesthetics, and providing employment opportunities, thus fostering a more vibrant, sustainable, and inclusive urban environment.

### Solution to the Problem

- The proposed solutions include implementing self-sustaining rooftop gardens, providing assistance for rooftop garden implementation and maintenance, utilizing vocational training centers to address unemployment, and targeting users with empty rooftops for transformation into green spaces. These solutions are particularly appropriate as they directly address the issues of declining greenery and unemployment in Dhaka. By

leveraging existing resources, incentivizing community participation, and providing practical assistance, these solutions are feasible in meeting the business objective of creating a sustainable Dhaka city. They promote environmental sustainability, community engagement, and economic empowerment, making them comprehensive and impactful approaches to tackle the identified problems.

- The specified software, "Green Dhaka," is a purpose-built platform designed to address the challenges of declining greenery and unemployment in Dhaka. Its primary purpose is to facilitate the establishment and maintenance of rooftop gardens by providing users with tools, resources, and assistance. The software aims to empower residents to contribute to environmental sustainability while addressing unemployment by connecting them with gardening opportunities. Key benefits include streamlined access to gardening resources, incentivized participation through tax rebates, and enhanced community engagement. The objectives and goals of Green Dhaka align with promoting environmental sustainability, providing employment opportunities, and enhancing the overall quality of life in Dhaka.
- In the problem area of declining greenery and unemployment, existing software solutions like "Sheba.xyz" offer assistance for various tasks but lack a specific focus on greenery initiatives. While there may be other software solutions available targeting environmental sustainability or urban gardening, they may not address the specific challenges faced by Dhaka's metropolitan area. Therefore, the proposed project aims to fill this gap by providing a comprehensive solution tailored to the city's needs. By integrating greenery plans into existing software platforms, the project seeks to enhance accessibility and promote engagement in environmental initiatives among residents.

## 4. REQUIREMENT SPECIFICATION

### 4.1 System Features

#### 1. Software Signup

- The software will allow new users to register.
- Users will enter their image [optional], name, address, email/phone number, desired username & password which will be then saved to a database.
- While registering a verification code will be sent out to the given email/phonenummer.

**Priority Level:** High.

**Pre-condition:** The user must have a valid email/phone number for account verification.

#### 2. Software Login

- The software will allow users to log in with their given username & password.
- The credentials will be verified against the database records.
- If the login attempt is successful user will be transferred to the user dashboard.
- If entered username or password doesn't match user can perform a usernameor password recovery through his/her given email/phone number.

**Priority Level:** High.

**Pre-condition:** The user must have a valid username & password.

#### 3. Product services search

- The software will allow users to search through products or services that areavailable to purchase through the software.
- The search system will be dynamic. The software will start to show matches assoon as the user types something.
- Registered users will be able to use the search feature.

**Priority Level:** Medium.

**Pre-condition:** The user must have a verified account.

#### 4. Garden Registration

- The software will allow new or existing users to register their gardens.
- Only the building owner can register under this option as the TIN & NID will be verified against NRB & EC sites.
- Registering for the garden requires some basic info like the Building owner's name, Tax Identification Number, address, garden size, images of the garden [optional], and email/phone number.
- Registering their gardens requires physical verification. After registration, a physical verification will be conducted by agents.
- The registration page will show some basic requirements to pass the garden registration. Ex. Garden size. Tree types etc.

**Priority Level:** High.

**Pre-condition:** The user must be the owner of the building to register.

#### 5. Gardening Equipment

- A variety of gardening items will be available through the software. Tools, fertilizer, seeds, etc.
- The user will choose the equipment they want, and those items will be placed to their shopping cart.
- They can place an order at the selected address by using the checkout process.
- The products will be made available to them within a short period.

**Priority Level:** Medium.

**Pre-condition:** The user must register for a garden.

#### 6. Hiring a Gardener

- The software will have a function that allows users to hire a gardener to

assist them by performing physical labor tasks in their gardens.

- Through the software, the user will request a gardener with a date and timeslot.
- A person at their location will be available at the requested time.

**Priority Level:** Medium.

**Pre-condition:** The user must register for a garden.

## 7. Solar Power Panel

- The software allows users to book solar panels through a registration system.
- The system will automatically take the username and address of the users from the profile data, or the user can manually input those.
- The system will ask for the rooftop area. Users can put their rooftop area in desired measurements.
- The system will suggest an ideal size and power of solar panel for the specific rooftop.
- Users also can upgrade the solar panel though the system will maintain a margin. This also goes for downgrade.
- At the bottom of the same page the system will show the expenses of the solar panel.
- If the user like to purchase the panel system will forward it to cart segment for the payment process.

**Priority Level:** Medium

**Pre-condition:** The user must have a profile in the system.

## 8. Gaeden Feeds

- The software allows users to stay updated with other users through a feed system.
- The system will allow users to post reels and short stories of the garden.
- The system will have a post-reel function. Which will take the user to files and have access permission to use the camera directly.



- The system will allow a certain size file. If the user exceeds the limit, the system will notify with a message.
- Users also can react to the feeds with two allowed reaction emoji.
- The feeds segment will have another sub-segment Tips & tricks.
- It will take the user to another page which will have a list of categories based on basic information about gardening.
- The user also can post short tutorial tips and tricks videos of their own.
- The system will have a post function that will take files from the users.
- The user must put a category from the listed options so that the system can categorize the content.
- Users can see the content of other users and specialists.

**Priority Level:** High

**Pre-condition:** The user must have a profile in the system.

#### **9. Subsidiary Panel (tax reduction/utility bill reduction)**

- This function calculates and finds out the tax benefit they can gain if they register their garden.
- This function calculates and finds out the utility bill reduction they can obtain after they become a part.
- A guest or user needs to provide their location, the area of their garden, the area of the whole rooftop, the area, and the number of solar panels.
- Total solar panel area is found out by multiplying the solar panel area and the number of solar panels.
- Fixed rates for a different range of areas of the garden and total solar panel area are pre-determined.
- Using the rates, the overall benefit is shown.

**Priority Level:** High

**Pre-condition:** The user must have a profile in the system.

## 10. Expert Opinion

- This function allows rooftop planners, who are authorized by the company, to provide expert suggestions.
- They provide a customized plan for each rooftop depending on the location, size, and condition of the rooftop.
- They can design a new garden or modify an existing one for better use of the limited area.
- They can help to solve existing problems with plants and solar panels and provide maintenance tips.
- They can also provide a cost-efficient and easy way of maintaining such gardens.
- A user has two options, he can make a video call, or can request a house tour.
- Each session is pre-paid and has a fixed rate depending on the type and duration of the session.

**Priority Level:** Medium.

**Pre-condition:** The user must have a profile in the system.

## 11. Notification

- This function sends notifications on their status of registration.
- Users get notifications when they need to pay attention to certain functions such as providing required information.
- Users receive the booking reminders.
- Users receive suggestions for using other functions.
- Send notifications about special events or discounts going on the platform.

**Priority Level:** Medium

**Pre-condition:** The user must sign in.

## 12. Donation

- The software will offer a donation opportunity.
- Users can donate food, clothing, and money to help the needy and poor.

- If a user requests a donation, our volunteers will collect those donations everyweek.
- The user may also make a donation using one of several online paymentmethods.

**Priority Level:** Low

**Pre-condition:** User must have a verified account.

### **13. Software Add to cart/ Checkout**

- The software should allow users to add any kind of product which are available onthe shop page.
- From the cart, the users should delete products and add products that the user wants.
- The software should display unit price, sub-total, and total.
- The user should confirm the order by checking out the page.
- On the checkout Page, the software should display which payment the user wants.
- After choosing the payment method, the software should confirm the order and mail it to the admin and the user.

**Priority Level:** Low

**Pre-condition:** User must have a verified account.

### **14. Software Service History**

- The software should allow the user to see every service that the user has taken.

**Priority Level:** Low

**Pre-condition:** User must have a verified account.

### **15. Software Feedback**

- The software should allow the users to give feedback on every operation.
- The software should allow this feature optional.

**Priority Level:** Low

**Pre-condition:** User must have a verified account.

## 16. Software help and customer service

- The software should allow the users to message the help center.
- The software should allow the users to call the help center.

**Priority Level:** Low

**Pre-condition:** User must have a verified account.

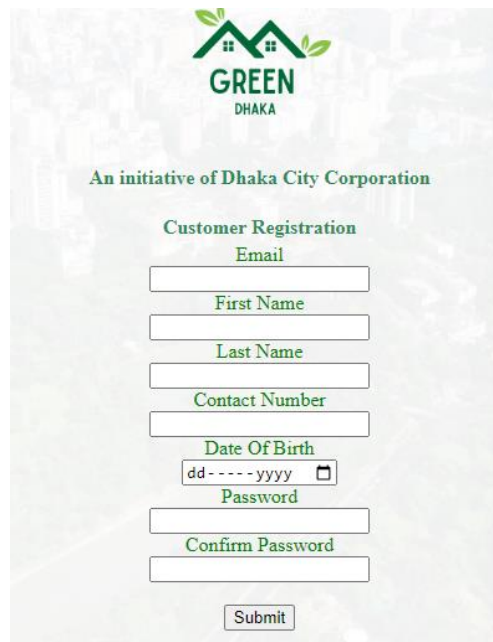
## 4.2 System Quality Attributes

1. **Usability:** Users should be able to register for a garden or purchase gardening equipment with minimal effort and within a reasonable amount of time, ensuring a smooth and intuitive user experience.
2. **Reliability:** The system should operate consistently without unexpected downtime or errors, ensuring that users can rely on it for tasks such as garden registration, equipment purchase, and hiring gardeners without interruption.
3. **Performance:** The system should respond promptly to user actions, with fast loading times for features such as garden registration, equipment search, and hiring gardeners, providing an efficient user experience.
4. **Security:** The system should ensure the security of user data, including personal information and payment details, protecting against unauthorized access or breaches to maintain user trust and confidentiality.
5. **Testability:** The system should be designed to facilitate testing at all levels, including unit testing, integration testing, and system testing, allowing for thorough validation and verification of functionality, performance, and security features. Testability ensures that any issues or defects can be identified and addressed promptly, contributing to the overall reliability and quality of the system.
6. **Maintainability:** The system should be designed for easy maintenance and updates, with clear documentation and modular components, facilitating ongoing improvements and enhancements.
7. **Interoperability:** The system should seamlessly integrate with other platforms or services, enabling data exchange and interoperability with external systems such as payment gateways or third-party APIs.

8. **Accessibility:** The system should be accessible to users of all abilities, complying with accessibility standards to ensure that individuals with disabilities can use the system effectively.
9. **Robustness:** The system should be resilient to errors and failures, able to recover gracefully from unexpected events such as system crashes or network outages, ensuring uninterrupted service for users.
10. **Efficiency:** The system should utilize resources efficiently, optimizing performance while minimizing resource consumption to ensure a cost-effective operation and a positive user experience.

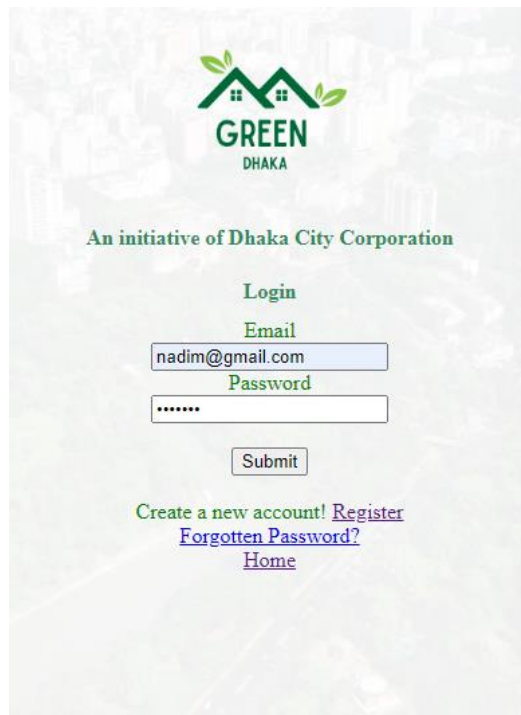
### 4.3 System Interface

- **User registration:**



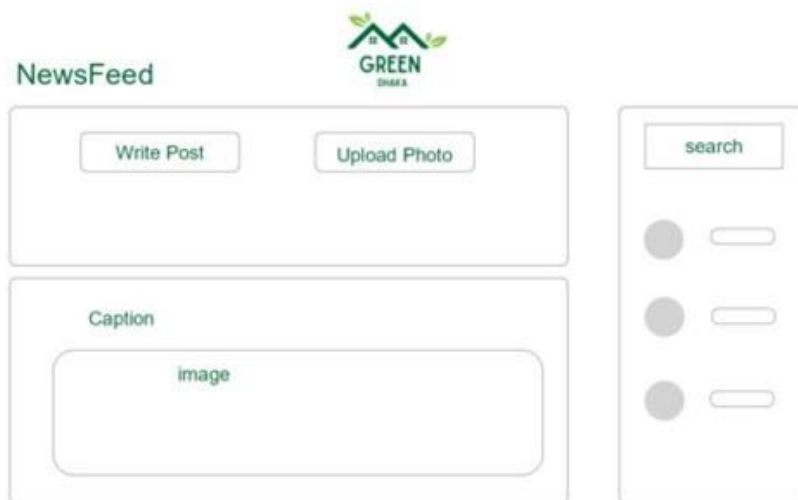
The screenshot displays a web-based registration form for 'GREEN DHAKA'. At the top, there is a logo featuring a green house icon with leaves, the word 'GREEN' in bold, and 'DHAKA' below it. Below the logo, the text 'An initiative of Dhaka City Corporation' is centered. The form itself is titled 'Customer Registration' and contains several input fields: 'Email', 'First Name', 'Last Name', 'Contact Number', 'Date Of Birth' (with a dropdown menu showing 'dd - - - - yyyy'), 'Password', and 'Confirm Password'. A 'Submit' button is located at the bottom of the form. The background of the form is a light green with a faint pattern of buildings.

- **User login:**



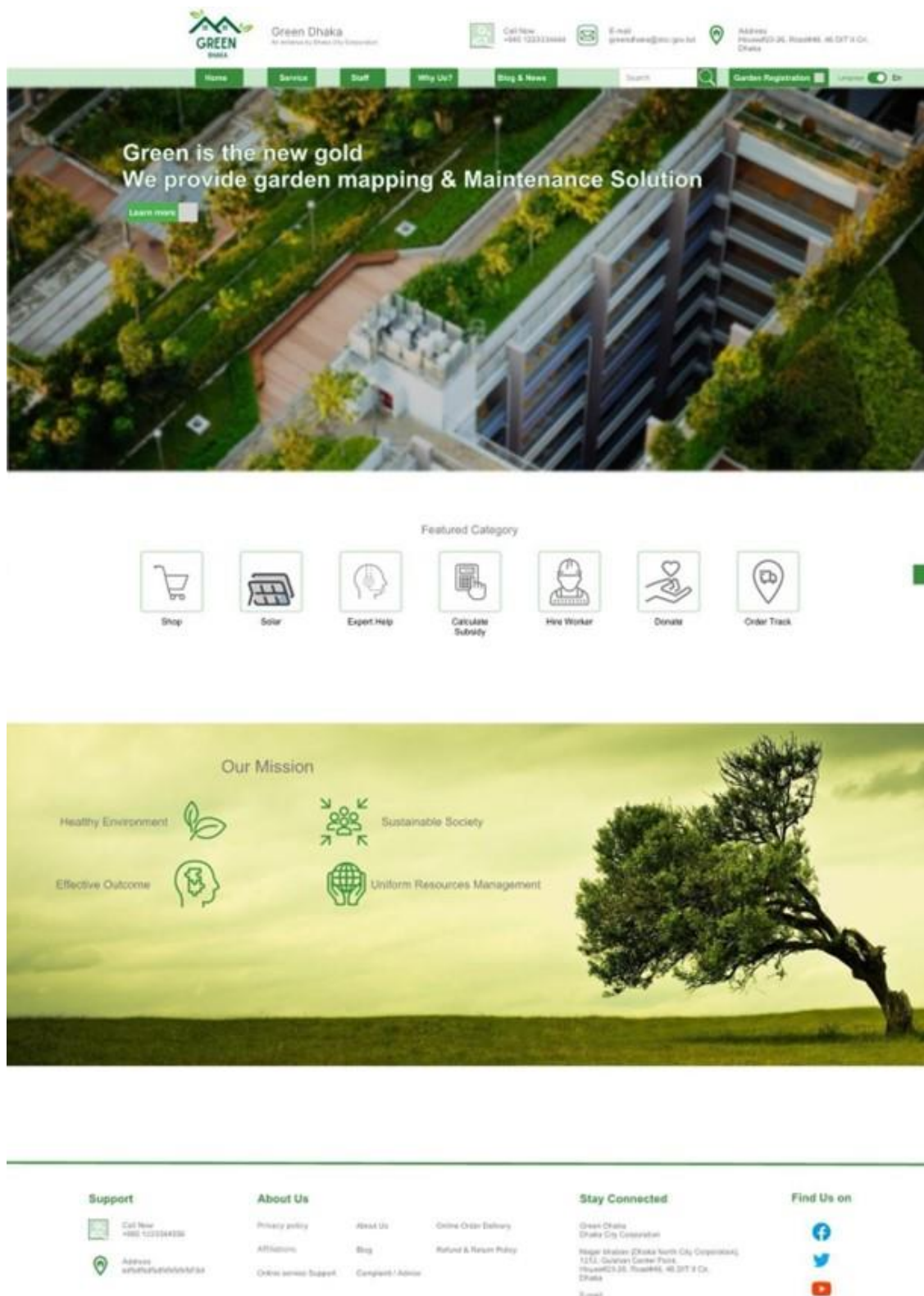
The login form is centered on a background image of a city street. At the top is the 'GREEN DHAKA' logo, which consists of two green house icons with leaves above the text 'GREEN' and 'DHAKA' below it. Below the logo is the text 'An initiative of Dhaka City Corporation'. The form includes a 'Login' label, an 'Email' label with a text input field containing 'nadim@gmail.com', a 'Password' label with a password input field showing six dots, and a 'Submit' button. At the bottom, there are three links: 'Create a new account! Register', 'Forgotten Password?', and 'Home'.

- **Newsfeed:**




The NewsFeed form is divided into two main sections. The top section is titled 'NewsFeed' and contains two buttons: 'Write Post' and 'Upload Photo'. The bottom section is a large container for a post, featuring a 'Caption' label and a large 'image' input field. To the right of the main form is a vertical sidebar containing a 'search' input field and three radio buttons, each followed by a small horizontal input field.

- Home page:





○ Shop:



Green Dhaka  
an initiative by Dhaka City Corporation

Welcome,  
Zohayra Akter

 / Shop




**A few clicks is all it takes.**

Availability

- ☒ In Stock
- ☐ Pre Order
- ☐ Up Coming


Show: 12 Sort By: Default



Wheel Barrow

\$ 100


[Add to Cart](#)



Watering Can

\$ 100


[Add to Cart](#)



Shovel

\$ 100


[Add to Cart](#)



Garden Rake

\$ 100


[Add to Cart](#)



Garden Hose

\$ 100


[Add to Cart](#)



Pruning Tool

\$ 100


[Add to Cart](#)



Planting Pot

\$ 100


[Add to Cart](#)



Weed Hoe

\$ 100


[Add to Cart](#)



Garden Pitchfork

\$ 100


[Add to Cart](#)



Planting Pot

\$ 100


[Add to Cart](#)



Hedge Trimmer

\$ 100

[Add to Cart](#)





Garden Gloves

\$ 100

[Add to Cart](#)

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**Stay Connected**


Green Dhaka  
Dhaka City Corporation


Nagar Shalini (Dhaka North City Corporation)  
7/12, Gulshan Center Road,  
Newark/23-05, Newmarket, 44 207-8 Gp,  
Dhaka

E-mail

**Find Us on**









- **Subsidiary Calculator:**



## Subsidiary Calculator

Address

Area of Rooftop


Area of Garden

Area of solar panel

Fixed Rate

Tax reduction

- **Expert opinion:**



### Expert Opinion

Image

Name:  
Experties:  
Rating:

Book a House Visit

Book a Video chat

Image

Name:  
Experties:  
Rating:

Book a House Visit

Book a Video chat


Image

Name:  
Experties:  
Rating:

Book a House Visit

Book a Video chat

- **About us:**



## About Us

Image Slider

About Us

### Contacts



☐

☐

☐

☐

- **Donation:**



Amal Bhatia

---

### Donation

Money
Food
Clothes

Image

### Pickup Location

Address Line 1  
 Address Line 2  

Area
 Zip

Pick a Date

2024-03-02



Description

March 2024

5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1

Request a Pickup

- **Checkout:**



Amal Shah

---


### Checkout


Selected items


Item Name	Price	Quantity
Item Name	Price	Quantity
Item Name	Price	Quantity
Item Name	Price	Quantity
Item Name	Price	Quantity

### Delivery Address

### Make Payment

☒ Card Payment
 



☐ MFS Payment
 

☐ Cash on Delivery
 

Total Price :

Proceed to Checkout

- **Hiring a gardener:**


 Arnav Dhanraj

## Hiring a Gardener

**Please Provide Your Information**

Address Line 1

Address Line 2


State  Zip

Pick a Date

March 2023


3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						


[Request a Gardener](#)



Image

- **Schedule an appointment:**



Amal Bhatia


## Schedule an Appointment

Image


### Please Provide Your Information

Schedule an Appointment

- Solar panel installation information:




Green Dhaka  
An initiative of Dhaka City Corporation



Welcome,  
Zohayer Alam

Green Dhaka SOLAR


GET A FREE CONSULTATION



We make the sun work for you

### Solar Panel installation for both Residential & Commercial building


Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce tincidunt, lacus ornare cursus eu, venenatis eu ex. Donec ornare lorem sodales dolor volutpat, non consectetur velit venenatis.



#### Residential

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce tincidunt, lacus ornare cursus eu, venenatis eu ex. Donec ornare lorem sodales dolor volutpat, non consectetur velit venenatis. Nulla nec dolor a mi mollis accumsan viverra et ipsum. Proin vel est quis massa feugiat interdum vel vitae ris. Fusce euismod, purus quis interdum venenatis, justo ante porta sem, in feugiat neque neque non orci. Nam suscipit facilisis ante id auctor. Sed pulvinar ipsum in tempus lectus.

Learn More





#### Commercial

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce tincidunt, lacus ornare cursus eu, venenatis eu ex. Donec ornare lorem sodales dolor volutpat, non consectetur velit venenatis. Nulla nec dolor a mi mollis accumsan viverra et ipsum. Proin vel est quis massa feugiat interdum vel vitae ris. Fusce euismod, purus quis interdum venenatis, justo ante porta sem, in feugiat neque neque non orci. Nam suscipit facilisis ante id auctor. Sed pulvinar ipsum in tempus lectus.

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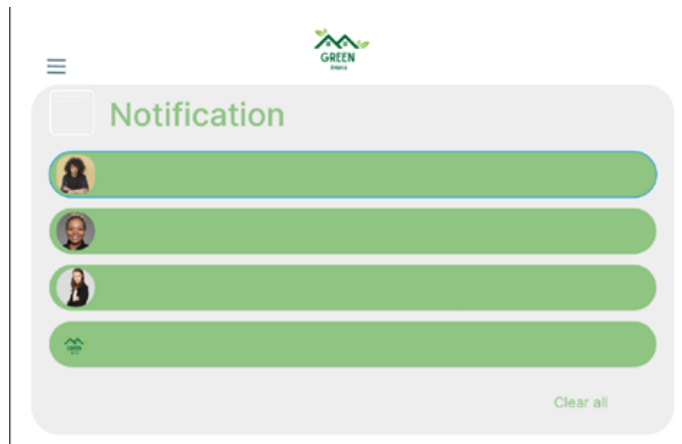
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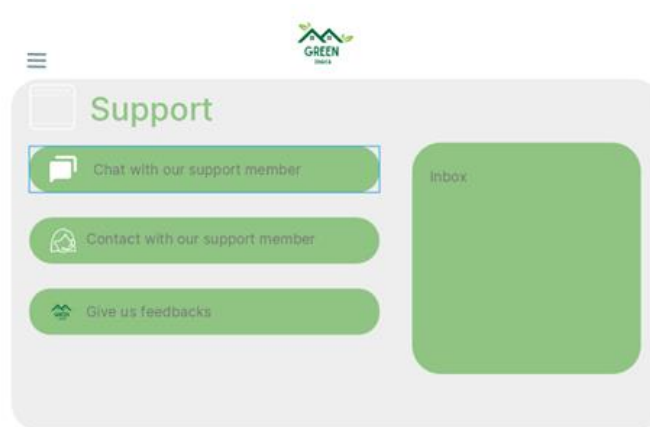
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[YouTube](#)

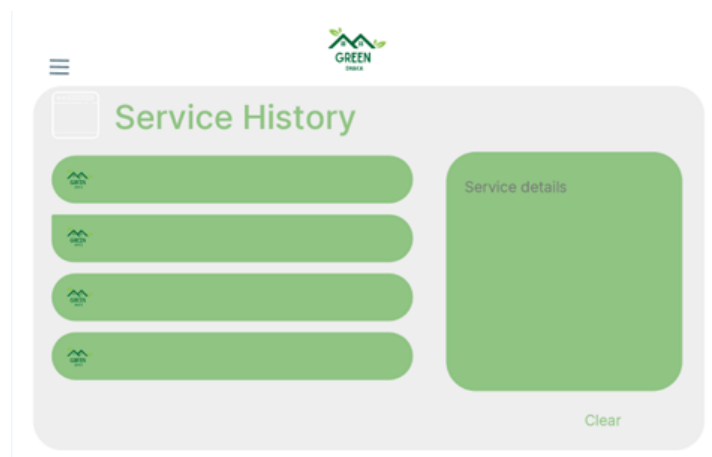
○ **Notification:**



○ **Support:**



○ **Service history:**



## 4.4 Project Requirements

### Budget estimation:

Resource Name	Type	Cost
Project Management Team	Work	40,000 Taka
HR Team	Work	40,000 Taka
System Designer Team	Work	40,000 Taka
Software Development Team	Work	50,000 Taka
Quality Assurance Team	Work	20,000 Taka
System Testing Team	Work	20,000 Taka
4 Computer	Recourse	1,50,000 Taka
Server	Resource	50,000 Taka
Others	Recourse	50,000 Taka
	Total	4,80,000 Taka

### Time estimation:

Task Name	Duration
Documentation	7 days
Design	7 days
Test plan	7 days
Unit testing	14 days
Integration testing	3 days
System Testing	3 days
Security testing	2 days
System testing bug report	3 days
Acceptance testing	3 days
Acceptance test bug report	7 days
Project completion	7 days
Feedback	3 days
Total	66 days

## 5. FEATURES NOT TO BE TESTED

The following is a list of the areas that will not be specifically addressed for testing in this project. All testing in these areas will be indirect as a result of other testing efforts:

- **Performance Testing of Third-Party Systems:** As the project primarily focuses on internal software functionalities, the performance of external third-party systems will not be directly tested. Any performance issues related to these systems will be monitored but not formally tested.
- **Load Testing:** Load testing scenarios involving a significant number of concurrent users accessing the system simultaneously will not be conducted as part of this testing phase. This includes stress testing to evaluate system behavior under extreme user loads.

## 6. TESTING APPROACH

### 6.1 Testing Levels

- **UNIT Testing:** Developers will be responsible for conducting UNIT testing. The unit tests will be subjected to review and approval by the development team leader. Prior to acceptance, the programmer must furnish evidence of unit testing, including a comprehensive test case list, sample output, data printouts, and defect information. All unit test information will be provided to the testing team.
- **SYSTEM/INTEGRATION Testing:** This phase will involve collaborative efforts between the test manager and development team leader, along with support from individual developers as needed. No specific test tools have been designated for this project. Programs will transition to the System/Integration testing phase only after addressing all critical defects. Programs may have up to two Major defects, provided they do not hinder the testing process and there are workarounds for any errors encountered.
- **ACCEPTANCE Testing:** Actual end users will participate in ACCEPTANCE testing under the guidance of the test manager and development team leader. This testing phase will run concurrently with the existing manual processes for a month following the completion of the System/Integration testing phase.

## 6.2 Test Tools

For the Green Dhaka project, Selenium IDE serves as the sole automated testing tool. Unit testing, conducted by the development team and QA, ensures the functionality of individual components. Integration testing, led by the Software Development and QA Leaders, verifies seamless interaction between modules. This method ensures comprehensive testing and early issue detection for a robust Green Dhaka platform.

## 6.3 Meetings

In the three-month software test plan, maintaining regular communication and collaboration between developers and testers is paramount for ensuring a successful software product. Weekly meetings are scheduled to assess progress, analyze test outcomes, and plan for the upcoming week. Additionally, the test team leader will organize monthly meetings among test teams to verify proper testing procedures. Emergency meetings can also be convened if urgent issues arise. At the conclusion of the three months, a test closure meeting will bring together all project members to reflect on the testing process and outcomes. This structured approach fosters effective teamwork, early issue identification, and ultimately contributes to the delivery of a high-quality software.



## 7. TEST CASES/TEST ITEMS

### Functional requirement 1: Signup

Project Name: Green Dhaka		Test Designed by: Nadim Bin Hossain		
Test Case ID: FR-1		Test Designed date: 05/05/24		
Test Priority (Low, Medium, High): High		Test Executed by: Badhon Nath Joy		
Module Name: Signup Session		Test Execution date:10/05/24		
Test Title: Register new user with valid username, password & email.				
Description: Test signup page.				
Precondition (If any): The user must have a valid & previously not used email				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to website. 2. Enter username. 3. Enter name. 4. Enter password. 5. Enter email. 6. Click register.	Username: nadim01  Name: Nadim Hossain  Password: nadim123*%  Email: nadimhossain.nkh.1007@gmail.com	If there is no account with this email and username user shouldregister into the system.	As expected	Pass
Post Condition: All user data is saved into an encrypted database. After that the user should be able to loginto his/her account.				

Project Name: Green Dhaka			Test Designed by: Nadim Bin Hossain	
Test Case ID: FR-1			Test Designed date: 05/05/24	
Test Priority (Low, Medium, High): High			Test Executed by: Badhon Nath Joy	
Module Name: Signup Session			Test Execution date: 10/5/24	
Test Title: Register new user with valid username, password & email.				
Description: Test signup page.				
Precondition (If any): User must have a valid & previously not used email				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to website. 2. Enter username. 3. Enter name. 4. Enter password. 5. Enter email. 6. Click register.	Username: nadim01  Name: Nadim Hossain  Password: nadim123*%  Email: nadimhossain.nkh.1007@gmail.com	Username & email is already in use	As expected	Pass
Post Condition: As the username & email is previously used the user will not be able to signup successfully.				

## Functional requirement 2: Login

Project Name: Green Dhaka			Test Designed by: Nadim Bin Hossain	
Test Case ID: FR-2			Test Designed date: 05/05/24	
Test Priority (Low, Medium, High): Medium			Test Executed by: Badhon Nath Joy	
Module Name: Login Session			Test Execution date: 10/5/24	
Test Title: Verify login with valid username and password				
Description: Test website login page				
Precondition (If any): User must have valid username and password				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Enter email 3. Enter password 4. Click submit	Email: nadimhossain.nkh.1007@gmail.com Password: nadim123*%	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 in the database.				

Project Name: Green Dhaka			Test Designed by: Nadim Bin Hossain	
Test Case ID: FR-2.1			Test Designed date: 05/05/24	
Test Priority (Low, Medium, High): Medium			Test Executed by: Badhon Nath Joy	
Module Name: Login Session			Test Execution date: 10/5/24	
Test Title: Verify login with valid username and password				
Description: Test website login page				
Precondition (If any): User must have valid username and password				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Enter email 3. Enter password 4. Click submit	Email: nadimhossain.nkh.1007@gmail.com Password: nadim	Wrong password	As expected	Pass
Post Condition: User is validated with database and successfully login to account.				

### Functional requirement 3: Search Execution

Project Name: Green Dhaka			Test Designed by: Nadim Bin Hossain	
Test Case ID: FR-3			Test Designed date: 05/05/24	
Test Priority (Low, Medium, High): Medium			Test Executed by: Badhon Nath Joy	
Module Name: Search Execution.			Test Execution date: 10/5/24	
Test Title: Search various product & services through the search bar.				
Description: Test the search bar.				
Precondition (If any): An user must be registered & logged into his account.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website. 2. Check if logged in or not. 3. If logged in, search the desired product.	Search bar ‘seeds’	Matching Product found	As expected	Pass
Post Condition: User will be served with matching information.				

Project Name: Green Dhaka			Test Designed by: Nadim Bin Hossain	
Test Case ID: FR-3			Test Designed date: 05/05/24	
Test Priority (Low, Medium, High): Medium			Test Executed by: Badhon Nath Joy	
Module Name: Search Execution.			Test Execution date: 10/5/24	
Test Title: Search various product & services through the search bar.				
Description: Test the search bar.				
Precondition (If any): An user must be registered & logged into his account.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website. 2. Check if logged in or not. 3. If logged in, search the desired product.	Search bar ‘grass cutter’	Matching Product not found	As expected	Pass
Post Condition: As the product is not available no information will be shown.				

**Functional requirement 4: Garden registration**

Project Name: Green Dhaka			Test Designed by: Nadim Bin Hossain		
Test Case ID: FR-4			Test Designed date: 05/05/24		
Test Priority (Low, Medium, High): High			Test Executed by: Badhon Nath Joy		
Module Name: Garden Registration			Test Execution date: 10/5/24		
Test Title: User will be able to register their garden					
Description: Test Garden Registration portal.					
Precondition (If any): User must be registered in the system.					
Test Steps		Test Data	Expected Results	Actual Results	Status (Pass/Fail)
<div>1. Go to website.</div> <div>2. Check if the user logged in or not into the system.</div> <div>3. Click garden registration from the homepage</div> <div>4. Fill in the required data.</div> <div>5. Click submit.</div>		<div>Owner’s name: Nadim Hossain</div> <div>TIN: 08947862</div> <div>Address: H#282, R#25</div> <div>Garden size: 350 sq ft</div> <div>Images [optional] Image1.jpg</div>	<div>If the TIN matches with the owner’s name, the application successfully submitted prompt will be shown</div>	<div>As expected</div>	<div>Pass</div>
Post Condition: Users’ data will be saved in a database & his application will be submitted for a physical verification.					

### Functional requirement 5: Garden equipment

Project Name: Green Dhaka			Test Designed by: Nadim Bin Hossain		
Test Case ID: FR-5			Test Designed date: 05/05/24		
Test Priority (Low, Medium, High): Medium			Test Executed by: Badhon Nath Joy		
Module Name: Gardening Equipment			Test Execution date: 10/5/24		
Test Title: Buying Gardening Equipment					
Description: User can browse Gardening Equipment (tools, seeds, fertilizer etc.) & also buy them using checkout process.					
Precondition (If any): User must register for a garden.					
Test Steps		Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on equipment shop item 2. Browse desired equipment. 3. Add equipment to cart. 4. Buy those items through checkout.		Select items scrolling.	Items added to cart.  Proceed to checkout	As expected	Pass
Post Condition: Registered user successfully selected desired equipment & proceed to checkout.					

Project Name: Green Dhaka			Test Designed by: Nadim Bin Hossain	
Test Case ID: FR-5			Test Designed date: 05/05/24	
Test Priority (Low, Medium, High): Medium			Test Executed by: Badhon Nath Joy	
Module Name: Gardening Equipment			Test Execution date: 10/5/24	
Test Title: Buying Gardening Equipment				
Description: User can browse Gardening Equipment (tools, seeds, fertilizer etc.) & also buy them using checkout process.				
Precondition (If any): User must register for a garden.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
<div>1. Click on equipment shop item</div> <div>2. Browse desired equipment.</div> <div>3. Add equipment to cart.</div> <div>4. Buy those items through checkout.</div>	Select items scrolling.	Product not available.Could not proceed to checkout	As expected	Pass
Post Condition: Registered user can't select his desired equipment due to product is out of stock				

& failed to checkout.

**Functional requirement 6: Hire a gardener.**

Project Name: Green Dhaka		Test Designed by: Nadim Bin Hossain		
Test Case ID: FR-6		Test Designed date: 05/05/24		
Test Priority (Low, Medium, High): Medium		Test Executed by: Badhon Nath Joy		
Module Name: Hire a Gardener		Test Execution date: 10/5/24		
Test Title: Hiring a Gardener for help.				
Description: User can hire a gardener by providing area location & desired timeslot.				
Precondition (If any): User must register for a garden.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on hire a gardener icon. 2. Fill up necessary details. 3. Provide desired date & time. 4. Request for a gardener.	Address: H-517, Road-13 Area: MirpurR/A Zip: 1216 Date: 10/05/24 Time: 12.10PM	Gardener Hiring request submitted	As expected	Pass
Post Condition: Registered user successfully submitted a request to hire a gardener.				

Project Name: Green Dhaka			Test Designed by: Nadim Bin Hossain	
Test Case ID: FR-6			Test Designed date: 05/05/24	
Test Priority (Low, Medium, High): Medium			Test Executed by: Badhon Nath Joy	
Module Name: Hire a Gardener			Test Execution date: 10/5/24	
Test Title: Hiring a Gardener for help.				
Description: User can hire a gardener by providing area location & desired timeslot.				
Precondition (If any): User must register for a garden.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
<div>1. Click on hire a gardener icon.</div> <div>2. Fill up necessary details.</div> <div>3. Provide desired date &amp; time.</div> <div>4. Request for agardener.</div>	<div>Address: H-517, Road-13 Area: Mirpur R/A Zip: 1216</div> <div>Date: 10/05/24 Time: 12.10PM</div>	Gardener not available	As expected	Pass
Post Condition: Registered user failed to submit a request to hire a gardener.				



### Functional requirement 7: Solar Power Panel

Project Name: Green Dhaka			Test Designed by: Nadim Bin Hossain	
Test Case ID: FR-7			Test Designed date: 05/05/24	
Test Priority (Low, Medium, High): Medium			Test Executed by: Badhon Nath Joy	
Module Name: Solar Power Panel			Test Execution date: 10/5/24	
Test Title: Requesting for Solar Power Panel				
Description: User can register to book a solar panel & also upgrade or downgrade current solar panel module.				
Precondition (If any): User must have a profile in the system.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on solarpower panel option. 2. Provide detailed measurements of the rooftop area. 3. Book a solar Panel.	Area of Rooftop: 3000 sq feet	Ideal size of Solar panel: 250 sq feet  Total cost: 2lac  Booking request submitted	As expected	Pass
Post Condition: Registered user successfully submitted a request to book a solar panel.				

Project Name: Green Dhaka			Test Designed by: Nadim Bin Hossain	
Test Case ID: FR-7			Test Designed date: 05/05/24	
Test Priority (Low, Medium, High): Medium			Test Executed by: Badhon Nath Joy	
Module Name: Solar Power Panel			Test Execution date: 10/5/24	
Test Title: Requesting for Solar Power Panel				
Description: User can register to book a solar panel & also upgrade or downgrade current solar panel module.				
Precondition (If any): User must have a profile in the system.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on solarpower panel modify option. 2. Provide measurements of the rooftop area which will be modified. 3. Request a modification.	Area of Rooftop:50 sq feet  Modify Option: Downgrade	Total cost: 50k  Modifying RequestsSubmitted	As expected	Pass
Post Condition: Registered user successfully submitted a request to downgrade a solar panel				

**Functional requirement 8: News feed**

Project Name: Green Dhaka			Test Designed by: Nadim Bin Hossain	
Test Case ID: FR-8			Test Designed date: 05/05/24	
Test Priority (Low, Medium, High): High			Test Executed by: Badhon Nath Joy	
Module Name: Garden feeds			Test Execution date: 10/5/24	
Test Title: User will be able post questions, finding & general info.				
Description: Test blog & feed section portal.				
Precondition (If any): User must be a registered user & logged into your account.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to website. 2. Check if the user is loggedin or not. 3. Click Blog & News button. 4. User can post status or image. 5. User can also choose toscroll & observer otherspost.	Status What is on your mind?  Attach. [image, gif] [optional] img2.jpg	User will be able to post questions, information.  This will be showed in thefeeds section.	As expected	Pass
Post Condition: Users’ data will be saved in a database & his application will be submitted for a physical verification.				

**Functional requirement 9: Subsidiary calculator**

Project Name: Green Dhaka		Test Designed by: Nadim Bin Hossain		
Test Case ID: FR-9		Test Designed date: 05/05/24		
Test Priority (Low, Medium, High): High		Test Executed by: Badhon Nath Joy		
Module Name: Subsidiary Panel		Test Execution date: 10/5/24		
Test Title: Calculates the tax benefit that a user can avail				
Description: Test website subsidy calculator page.				
Precondition (If any): Must input the user password for printing the subsidy slip				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to subsidiary calculator page 2. Input the required values. 3. Enter password 4. Click Print	Address: Mohammadpur Area of Rooftop:3000 sq feet Area of Garden:1000 sq feet Area of Solar panel: 250 sqfeet Fixed Rate: Tk 0.2 /sq feet Tax reductionvalue: Tk 250 Print: 001100 (password)	User will be able to calculate the amount of subsidy based on their garden area.	As expected	Pass
Post Condition: User can get an estimate of their subsidy.				

Project Name: Green Dhaka			Test Designed by: Nadim Bin Hossain	
Test Case ID: FR-9			Test Designed date: 05/05/24	
Test Priority (Low, Medium, High): High			Test Executed by: Badhon Nath Joy	
Module Name: Subsidiary Panel			Test Execution date: 10/5/24	
Test Title: Calculates the tax benefit that a user can avail				
Description: Test website subsidy calculator page.				
Precondition (If any): Must input the user password for printing the subsidy slip				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to subsidiary calculator page 2. Input the required values. 3. Enter password 4. Click Print	Address: Mohammadpur Area of Rooftop:300 sq feet, Area of Garden: 70 sq feet  Area of Solar panel: 250 sqfeet Fixed Rate: Tk 0.2 /sq feet Tax reduction value: Tk 250Print: 001100 (password)	Rooftop to Garden ratio is toosmall to avail subsidy.	As expected	Pass
Post Condition: User will not avail any subsidy.				

### Functional requirement 10: Expert Opinion

Project Name: Green Dhaka			Test Designed by: Badhon Nath Joy	
Test Case ID: FR-10			Test Designed date: 05/05/24	
Test Priority (Low, Medium, High): Medium			Test Executed by: Nadim Bin Hossain	
Module Name: Expert Opinion			Test Execution date: 10/05/24	
Test Title: It allows to book experts for help and suggestions.				
Description: Test expert Opinion Page.				
Precondition (If any): User must have a registered garden.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on experts' profile. 2. Browse desired experts' profile. 3. Book a house visit. 4. Book a Video chat. 5. Confirm booking through checkout.	1. Select items. 2. Scroll through the options. 3. Book an appointment	Successful booking	As expected,	Pass
Post Condition: With a successful checkout user will be able to reserve an appointment.				

### Functional requirement 11: Notification

Project Name: Green Dhaka			Test Designed by: Badhon Nath Joy	
Test Case ID: FR-11			Test Designed date: 05/05/24	
Test Priority (Low, Medium, High): Medium			Test Executed by: Nadim Bin Hossain	
Module Name: Notification			Test Execution date: 10/05/24	
Test Title: It sends user remainder about booked appointments, shop purchases, printing of subsidiary slips				
Description: Test the Notification portal.				
Precondition (If any): User must have a profile.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Login as admin 2. Send notification	1. Test Notification :0000111	Notification was sent	As expected,	Pass
Post Condition: User got the notification successfully.				

### Functional requirement 12: Donation

Project Name: Green Dhaka		Test Designed by: Badhon Nath Joy		
Test Case ID: FR-12		Test Designed date: 05/05/24		
Test Priority (Low, Medium, High): Low		Test Executed by: Nadim Bin Hossain		
Module Name: Donation		Test Execution date: 10/05/24		
Test Title: It allows the user to donate money, food, clothes.				
Description: Test the donation Page				
Precondition (If any): User must have a profile				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Fill the pickup location. 2. Pick a date. 3. Describe your donation.	Pickup location: House:517 Address: H-517, Road-13 Area: Bashundhara R/A Zip: 1229 Date: 22/03/23 Time: 12.10 PM Description: I want to donate clothes and food	Successful donation of food and clothes.	As expected,	Pass
Post Condition: A volunteer will physically collect the donation from pickup location.				



### Functional requirement 13: Add to cart

Project Name: Green Dhaka			Test Designed by: Badhon Nath Joy	
Test Case ID: FR-13			Test Designed date: 05/05/24	
Test Priority (Low, Medium, High): Low			Test Executed by: Nadim Bin Hossain	
Module Name: Add to cart			Test Execution date: 10/05/24	
Test Title: Checkout session.				
Description: User can add, delete available items to cart. Should display unit price, total, sub-total. Should be able to confirm order by checkout page. user can select payment method. After the confirmation of the order, it will be notified to admin through a mail.				
Precondition (If any): User must have a profile				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on the add to cart icon on any item. 2. Click on the cart icon. 3. Click on delete icon. 4. Click on payment method icon. 5. Click on confirm order	1. Scrolling 2. item selection 3. Selected items 4. total, per unit price. 5. Selected item 6. Changes in total 7. Available payment methods. 8. Checks all the fields	1. added to check-out page. 2. Show added cart items 3. Delete the selected items. 4. Shows the eligible payment methods. 5.Order confirmation.	As expected,	Pass
Post Condition: Successfully ordered.				

Project Name: Green Dhaka			Test Designed by: Badhon Nath Joy	
Test Case ID: FR-13			Test Designed date: 05/05/24	
Test Priority (Low, Medium, High): Low			Test Executed by: Nadim Bin Hossain	
Module Name: Add to cart			Test Execution date: 10/05/24	
Test Title: Checkout session.				
Description: User can add, delete available items to cart. Should display unit price, total, sub-total. Should be able to confirm order by checkout page. user can select payment method. After the confirmation of the order, it will be notified to admin through a mail.				
Precondition (If any): User must have a profile				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
<div>1. Click on the add to carticon on any item.</div> <div>2. Click on the cart icon.</div> <div>3. Click on delete icon.</div> <div>4. Click on payment methodicon.</div> <div>5. Click on confirm order</div>	<div>1. No items selected.</div> <div>2. No payment methods selected</div>	<div>1. Cart is empty.</div> <div>2. Order denied.</div>	As expected,	Pass
Post Condition: Not applicable.				

#### Functional requirement 14: History

Project Name: Green Dhaka			Test Designed by: Badhon Nath Joy	
Test Case ID: FR-14			Test Designed date: 05/05/24	
Test Priority (Low, Medium, High): Low			Test Executed by: Nadim Bin Hossain	
Module Name: History			Test Execution date: 10/05/24	
Test Title: Service histories				
Description: Should allow the users to see their previous service information.				
Precondition (If any): User must have to have a verified account.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on the service history icon.	1. Checks for the Performed services information.	Shows the information.	As expected,	Pass
Post Condition: User will be shown a list of previously taken services.				

### Functional requirement 15: Customer service

Project Name: Green Dhaka			Test Designed by: Badhon Nath Joy	
Test Case ID: FR-15			Test Designed date: 05/05/24	
Test Priority (Low, Medium, High): Low			Test Executed by: Nadim Bin Hossain	
Module Name: Customer service			Test Execution date: 10/05/24	
Test Title: Help & custom services				
Description: Allow the users to message and call the help center.				
Precondition (If any): User must have to have a verified account.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on the help icon. 2. Click on the chat icon. 3. Click on send. 4. Click on the call icon. 5. Click on history Icon	1. Options 2. Inbox 3. Sends the message. 4. Looks for a carrier operator. 5. Gets data of previous calls.	1. opens a help page with chat or call option. 2. opens a chat inbox for writing the message. 3. message will be sent to the help center to respond. 4. Dials the help line of the help center to respond. 5. shows the helps history.	As expected,	Pass
Post Condition: Calls are only applicable for mobile phones.				

### Functional requirement 16: Customer service

Project Name: Green Dhaka			Test Designed by: Badhon Nath Joy		
Test Case ID: FR-16			Test Designed date: 05/05/24		
Test Priority (Low, Medium, High): Low			Test Executed by: Nadim Bin Hossain		
Module Name: Customer service			Test Execution date: 10/05/24		
Test Title: Help & custom services					
Description: Allow the users to message and call the help center.					
Precondition (If any): User must have to have a verified account.					
Test Steps		Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on the help icon. 2. Click on the chat icon. 3. Click on send. 4. Click on the call icon. 5. Click on history Icon		1. Looks for carrier network. 2. Connects with the help center.	Error	As expected,	Pass
Post Condition: Error in network or other connection will terminate the connection with the customer service.					

## 8. ITEM PASS/FAIL CRITERIA

The completion of the test process hinges on the successful execution of several key actions within the Green Dhaka platform. Firstly, registered users must be able to seamlessly order food, execute payment transactions, and replenish their account balances without encountering any technical glitches or errors. Once a user initiates an order and proceeds to make the necessary payment, the system should accurately update both the inventory of available food items and the user's account balance. This synchronization ensures that the platform reflects the most current information regarding available food items and user account statuses. If any discrepancies or failures arise during these processes, it signifies a failure in the test criteria. Conversely, if users can smoothly navigate through ordering, payment, and account replenishment procedures, it indicates a successful pass in the test criteria for Green Dhaka.

## 9. TEST DELIVERABLES

- Requirement Documentation
- System Interfaces
- Unit test plans
- Integration/System test plans
- Acceptance test plans
- Test logs and turnover reports
- Report mock-ups

## 10. STAFFING AND TRAINING NEEDS

- A project management team will be formed first. This team will be responsible for everything in the project. Every major decision should be approved by the project management team before taking action.
- A HR team will be formed among the project management team for hiring the human resources. The project management team will inform how many and what type of resources they need like system interface designer, software development team, quality assurance team, system testing team. Every member will be trained for preparing for the development and testing process as per requirements.

## 11. RESPONSIBILITIES

	TM	PM	Dev Team	Test Team	Client
Test cases documentation	X	X	X	X	
Test Procedures and rules	X		X	X	
Unit test documentation & execution			X	X	
Integration test Documentation & Execution	X		X	X	
System test Documentation & Execution		X		X	
System Design Reviews	X	X	X	X	X
Details Design Reviews	X	X	X	X	
Screen & Report prototype reviews	X	X		X	X
Change Control and regression testing	X	X	X	X	X
Acceptance test Documentation & Execution	X	X		X	X

## 12.TESTING SCHEDULE

Green Dhaka ...

Board

List

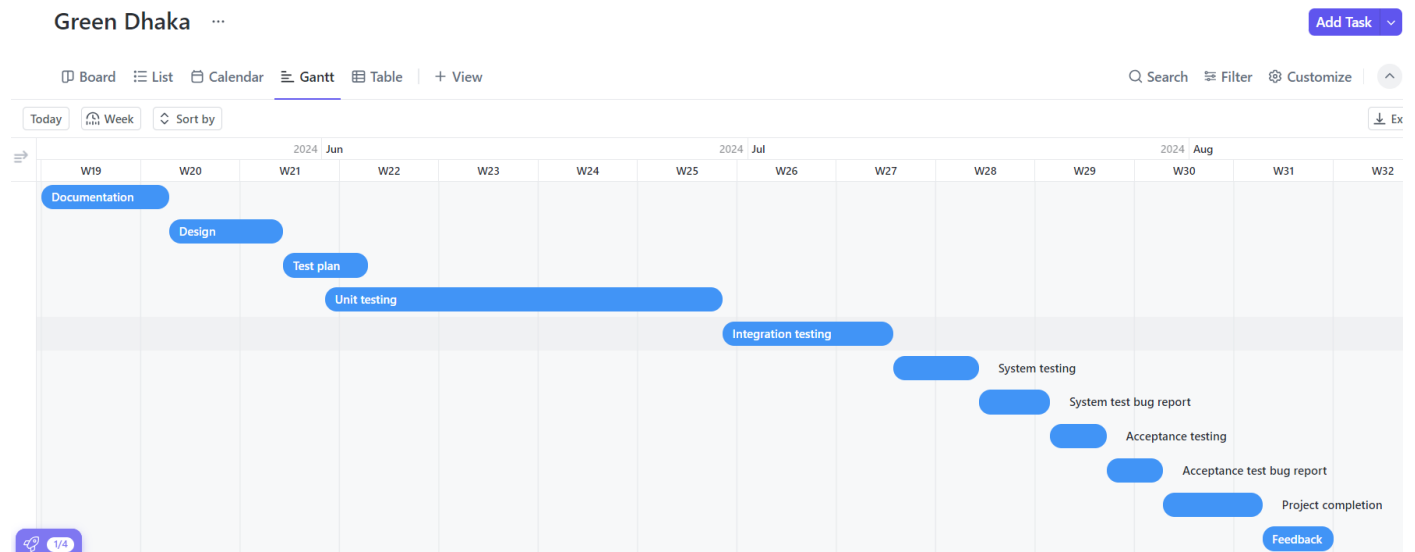
Calendar

Gantt

**Table**

+ View

#	NAME	ASSIGNEE	STATUS	DUE DATE	PRIORITY
1	Documentation		TO DO	5/20/24	
2	Design		TO DO	5/28/24	
3	Test plan		TO DO	6/3/24	
4	Unit testing		TO DO	6/28/24	
5	Integration testing		TO DO	7/10/24	
6	System testing		TO DO	7/16/24	
7	System test bug report		TO DO	7/21/24	
8	Acceptance testing		TO DO	7/25/24	
9	Acceptance test bug report		TO DO	7/29/24	
10	Project completion		TO DO	8/5/24	
11	Feedback		TO DO	8/10/24	



### 13.PLANNING RISKS AND CONTINGENCIES

Risk	Probability	Impact	Mitigation
Error in database	Low	Low	Testing the database related features frequently and maintain daily update.
Error in function	Low	Low	Testing the website frequently and maintain daily update.
Error while giving invalid input	Medium	Medium	The users or testers have to test the input fields regularly by giving correct input data.
Loss of Data	High	High	Maintain security checkup regularly.

### 14.APROVALS

Role	Name
Project Sponsor	AIUB
QA Lead	Sara Mahjabin
Project Manager	Sara Mahjabin
Business Analyst	Nadim Bin Hossain
Test Manager	Nadim Bin Hossain
Development Manager	Badhon Nath Joy



## Meeting with QA Engineer:

The screenshot shows a Google Meet interface. The main window displays a presentation slide from Nadim Hossain. The slide content includes the AIUB logo, department and faculty information, section details, and a table of student names and IDs. On the right, three participant tiles are visible: Nadim Hossain, Sara Mahjabin (with a large orange 'S' icon), and Badhon Nath Joy. The bottom of the screen shows the meeting controls and a timestamp of 9:50 PM.

**Slide Content:**

American International University-Bangladesh (AIUB)  
Department of Computer Science  
Faculty of Science & Technology (FST)  
Spring 23-24

Section: B  
Software Quality Assurance and Testing

Green Dhaka

A Report submitted By

SN	Student Name	Student ID
1	JOY, BADHON NATH	21-45390-3
2	HOSSAIN, NADIM BIN	21-45448-3

**Participants:**

- Nadim Hossain
- Sara Mahjabin
- Badhon Nath Joy

**Meeting Info:** 9:50 PM | svs-kytr-hoq