

PORTFOLIO WEBSITE FOR NEONTECH

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FULL-STACK DEVELOPER

VERSION-3

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S M MASUM

Managing Director

UCC

Al Raji Complex, 15th Floor.

166-167, Shaheed Syed Nazrul Islam Sarani, Purana Paltan

Dhaka -1000

Dear S M MASUM,

Re: Enclosed Application Agreement for **Online Shopping Website and Web Application System**.

At Neon-Tech, we are aware that creating client-oriented Application takes a mixture of technical excellence and clear communication and our firm hires only the very best to ensure you receive both. We know that every client is unique and we strive to deliver an individual, innovative and affordable proposal every time and to follow it through with an outstanding delivery which is both on time and within budget.

According to your business requirement we design **Online Shopping Website and Web Application System** for you. In this agreement paper we right each and every part and all possible feature which covered our application.

So please read carefully and if it satisfies you then sign and confirm the agreement.

Yours Truly,

Md. Khairul Bashar

Assistant Head

Application Development Brach

Neon-Tech

1. PROJECT OVERVIEW

In 21st century, advantage of the technology and digitalization efforts. The use of technology all of our life has been evolved. To make our business or professional life easy we develop a system. This project consists a website and a web application, Website is fully information based and the web application has two modules with cloud features.

2. OBSTACLES

- Low Budget
- Platform
- Manage Storage File System

3. USER FEATURES IN DETAILS:

Online Shopping Website and Web Application System has two parts, They Are:

- Website
 - Home
 - Events
 - Video & Photo Gallery
 - Admin Panel only
 - Can upload photos and Video
 - Blog
 - Achievements
 - Projects
 - About Us
 - Login (Go for The Web Application)
- Web Application System
 - User
 - Login
 - User Id and Password are provided by admin
 - Admin
 - Create User
 - Create Events See
 - Upload blogs
 - Upload Photos & Videos

4. TECHNOLOGY REQUIRE (APPLICATION AND HARDWARE)

- Framework: Slim.
- Database: MySQL.
- Design: Standard.
- Coding Architecture: OOP.
- Security: Standard.

5. APPLICATION

- **Online Shopping Website and Web Application System**

6. MILESTONES AND REPORTING

| Milestone | Tasks | Reporting | Time |
|-------------------------|-----------------------|-------------------|---------|
| Analysis | | Submit The Design | 3 days |
| Requirements Collection | Submit To Us All Data | | 7 days |
| Development | | Review The Work | 30 days |
| Testing | | | 10 days |
| Deployment | Must Ready The Server | Review Final Work | 5 days |
| Delivery | | Live On Server | 5 days |

7. SDLC

Certainly! Here are some common Software Development Life Cycle (SDLC) models, along with their descriptions, typical use cases, and phases:

7.1 WATERFALL MODEL

- Description: The Waterfall model is a linear and sequential approach to software development, where each phase must be completed before the next one begins.

- Use: It is suitable for projects with well-defined and stable requirements.

- Phases:

1. Requirements Analysis
2. System Design
3. Implementation
4. Integration and Testing
5. Deployment
6. Maintenance

7.2 ITERATIVE MODEL

- Description: The Iterative model involves repeating cycles (iterations) of the development process. Each iteration includes phases from requirements to testing.

- Use: It is useful when requirements are not clear or may change during the project.

- Phases: Similar to the Waterfall model but repeated in cycles.

7.3 SPIRAL MODEL

- Description: The Spiral model combines iterative development with elements of the Waterfall model. It emphasizes risk assessment and mitigation.

- Use: It is suitable for large and complex projects with evolving requirements.

- Phases:

1. Planning
2. Risk Analysis
3. Engineering (Design, Code, Test)
4. Evaluation (Review and Testing)
5. Repeat Iterations (If Necessary)
6. Deployment and Maintenance

7.4 V-MODEL (VALIDATION AND VERIFICATION MODEL)

- Description: The V-Model is an extension of the Waterfall model that emphasizes validation (testing) at each phase.
- Use: It is used when high reliability and thorough testing are essential.
- Phases: The phases are similar to the Waterfall model, but testing is closely aligned with each development phase.

7.5 AGILE MODEL

- Description: Agile is an iterative and flexible approach that focuses on collaboration, customer feedback, and delivering working software in short iterations.
- Use: It is best for projects with changing or unclear requirements and where customer collaboration is crucial.
- Phases: No fixed phases; work is organized into iterations (Sprints) with planning, coding, testing, and review activities within each iteration.

7.6 BIG BANG MODEL

- Description: The Big Bang model is an informal and chaotic approach where there is no specific process or phases defined. Developers work on the project without a structured plan.
- Use: It is typically used for small projects or proof-of-concept development.
- Phases: Not defined; often lacks a formal process.

7.7 INCREMENTAL MODEL

- Description: The Incremental model divides the project into smaller, manageable parts called increments. Each increment represents a portion of the functionality, and new increments are added iteratively.
- Use: Useful for large projects with long development cycles where partial functionality can be delivered early.
- Phases: Each increment follows phases similar to the Waterfall model.

8. SDLC FOR NEONTECH

8.1 HOW WATERFALL MODEL USED IN WEBSITE?

The Waterfall Model is a traditional and linear approach to software development, consisting of distinct phases that are completed sequentially. While it's not as commonly used for website development in modern times due to its rigidity, it can still be applied to certain types of website projects with well-defined and stable requirements. Here's how you can use the Waterfall Model for website development:

1. Requirements Gathering:

- Start by thoroughly gathering and documenting all the requirements for the website. This includes functionality, design preferences, user interface specifications, and any other client expectations.
- Involve stakeholders, clients, and end-users in the requirements gathering process to ensure clarity and completeness.

2. System Design:

- Once the requirements are well-documented, move on to the system design phase. Create a detailed architectural and technical design for the website.
- Design the website's layout, structure, database schema, and other technical specifications.

3. Implementation (Coding):

- With a detailed design in hand, the development team can begin coding the website. This involves writing the HTML, CSS, JavaScript, backend code, and any other necessary programming.

4. Testing:

- After the coding phase, conduct comprehensive testing to ensure that the website functions according to the specified requirements.
- Perform unit testing, integration testing, and system testing to identify and fix any defects or issues.

5. Deployment:

- Once the website is thoroughly tested and deemed ready for release, deploy it to a production environment or a web server.
- Configure the server and database settings as needed for the live environment.

6. Maintenance and Support:

- After deployment, provide ongoing maintenance and support to address any issues that may arise post-launch.
- This phase involves monitoring the website's performance, applying updates, and addressing user feedback.

8.2 WHY WATERFALL MODEL IS GOOD FOR WEBSITE?

The Waterfall Model is not typically considered the best choice for website development, especially in modern software development practices. However, there might be situations where it could be considered appropriate for specific types of website projects. Here are a few scenarios where the Waterfall Model might be suitable for website development:

- 1. Well-Defined Requirements:** If the requirements for the website are exceptionally well-documented, stable, and unlikely to change throughout the project, the Waterfall Model can work. This is a rare scenario, as website requirements often evolve.
- 2. Small and Simple Websites:** For very small and straightforward websites with limited functionality and no complex integrations or dynamic features, a linear approach like Waterfall may be sufficient.
- 3. Regulatory or Compliance Requirements:** In cases where strict regulatory or compliance requirements exist, a Waterfall Model may help ensure that all necessary documentation and testing are completed systematically.
- 4. Client Preference:** Some clients or organizations may have a preference for a Waterfall-like approach due to their familiarity with it or because it aligns with their project management processes.

However, it's important to acknowledge the limitations of the Waterfall Model, even in these scenarios:

- 1. Inflexibility:** The Waterfall Model is highly rigid and does not handle changing requirements well. In website development, requirements often evolve during the project, making it challenging to adapt to client needs.

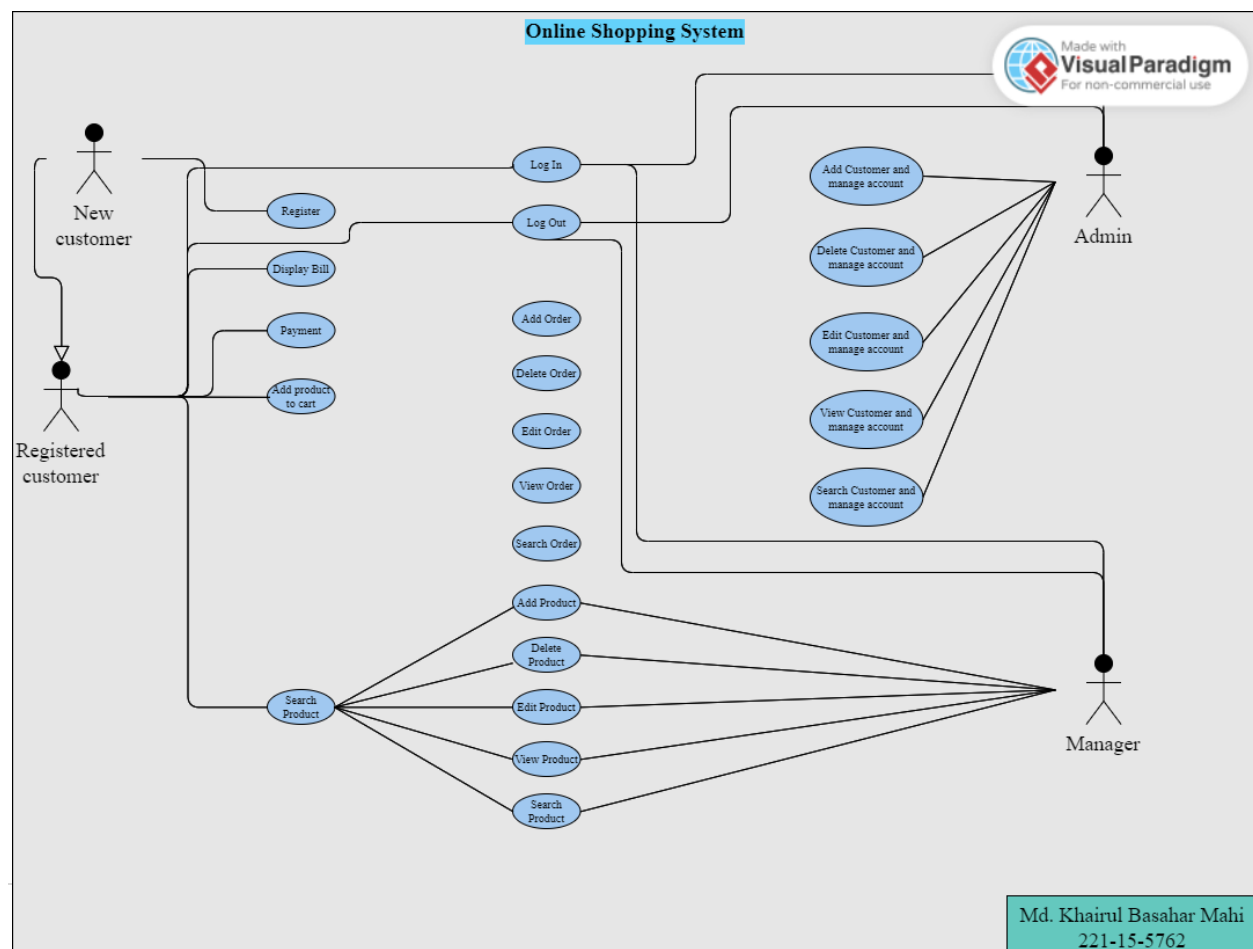
2. Risk of Misalignment: Since clients might not fully understand their needs until they see a working prototype, there's a risk of misalignment between the initial requirements and the final product in a Waterfall Model.

3. Limited Client Engagement: Waterfall often limits client involvement until the testing phase, which can lead to surprises and dissatisfaction if the final product doesn't meet their expectations.

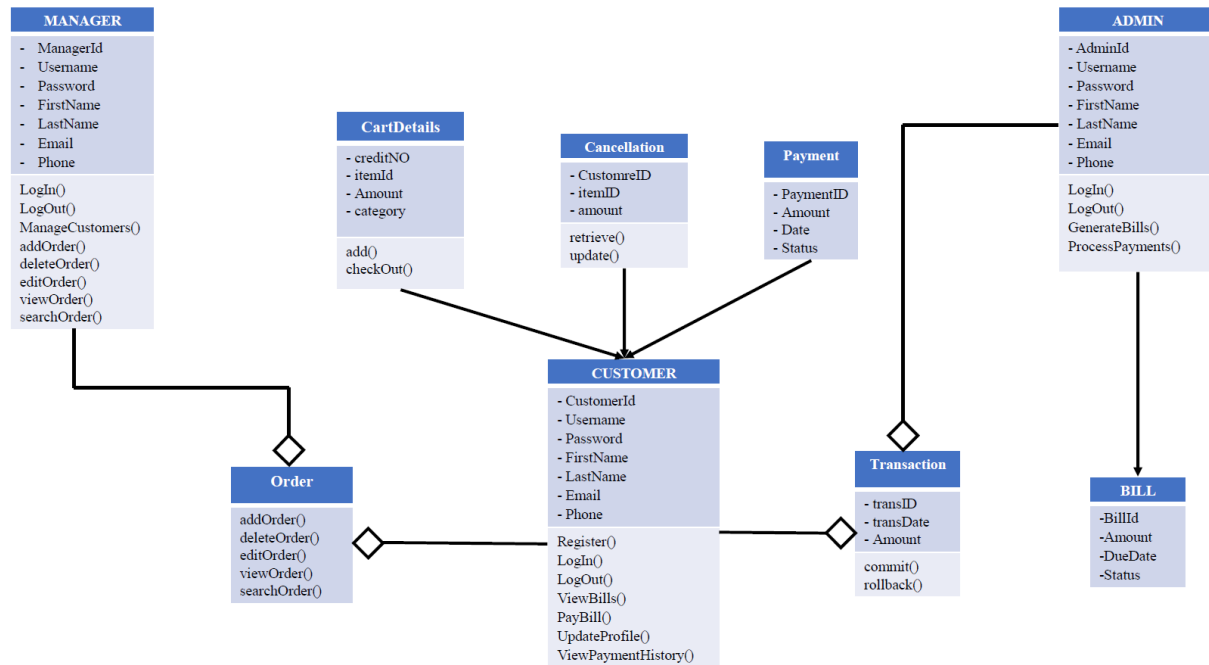
4. Longer Time to Market: Waterfall's sequential nature can result in a longer time to market, which may not be ideal in fast-paced web development environments.

In summary, while the Waterfall Model can theoretically be used for website development in certain situations, it is not the most suitable choice for most modern website projects. Agile methodologies, such as Scrum or Kanban, are generally preferred for web development due to their flexibility, iterative nature, and ability to accommodate changing requirements. These methodologies allow for more client involvement and quicker delivery of value to the end-users, which aligns better with the dynamic nature of website development.

9. USE CASE



10. UML DIAGRAM



11. DEPLOYMENT

The Application will completely base on the following requirement which is given by your company and this Application is cover those features which is right down. For development time developer only focus on the feature. If client want more feature, then he has to pay base on new feature.

12. TESTING

The testing process shall be as follows:

- Application will be tested by PHP Unit.
- Application also tested By Codeception.

13. SUPPORT

- 24/7 support based on payment.

14. PRICING

Our fee for seeing the project through from start to completion will be Twenty-Five Thousand Taka only (30000Tk).

15. PAYMENT TERMS

We propose the following payment terms:

10% (10%)

Paid on acceptance of this proposal.

40% (50%)

Paid on signing of our application development agreement.

25% (75%)

Paid at 70% Application Demonstration.

25% (100%)

Paid at completion the Application.

16. RESPONSIBILITY:

This Application Ordered by **S M MASUM**, Managing Director of UCC, all responsibility goes on him.

This Application will Developed by Shrikanta Paul and Md. Khairul Bashar on a project of Neon-Tech Development Group supervised by Shrikanta Paul.

17. CONTACT US

You can get in touch with us in any of the below ways:

By Phone:

+8801765771733

Md. Khairul Bashar

By Email

khairulbasharmahi@gmail.com

On our website

www.neontech.com

By post

Room-141, 4 No, House-building

Eye Hospital,

Uttara, Dhaka-1330

We look forward to hearing from you soon!

Agreement Signed By:

.....

Client Signature

S M MASUM

Managing Director

UCC

.....

Authority Signature

Md. Khairul Bashar

Assistant Head

Neon-Tech