

AN ECOMMERCE APPLICATION: BD MART ONLINE SHOP

BY

Tanbin Rahman Utso
ID: 172-15-9637

Quazi Aumio Souhardyo
ID: 172-15-9611

A thesis submitted in partial fulfillment of the requirement for the degree of
Bachelor of Science in Software Engineering

Supervised By

MD. Zahid Hasan
Assistant Professor
Department of CSE
Daffodil International University

Co-Supervised By

Mr. Riazur Rahman
Senior Lecturer
Department of CSE
Daffodil International University



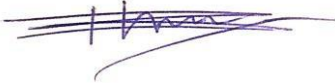
DAFFODIL INTERNATIONAL UNIVERSITY
DHAKA, BANGLADESH

APPROVAL

This Project “**BD MART ONLINE SHOPPING**” submitted by **Tanbin Rahman Utso, ID: 172-15-9637** and **Quazi Aumio Souhardyo, ID:172-15-9611** to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 09/09/2021

BOARD OF EXAMINERS

Chairman



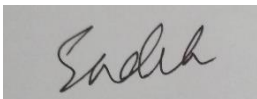
Dr. Touhid Bhuiyan

Professor and Head

Department of Computer Science and Engineering

Faculty of Science & Information Technology

Daffodil International University



Internal Examiner

Md. Sadekur Rahman

Assistant Professor

Department of Computer Science and Engineering

Faculty of Science & Information Technology

Daffodil International University



Internal Examiner

Gazi Zahirul Islam

Assistant Professor

Department of Computer Science and Engineering

Faculty of Science & Information Technology

Daffodil International University



External Examiner

Shah Md. Imran

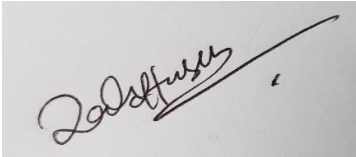
Industry Promotion Expert

LICT Project, ICT Division, Bangladesh

DECLARATION

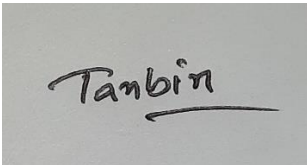
We hereby declare that, this project has been done by us under the supervision of **Md Zahid Hasan, Assistant Professor, Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

Supervised by:

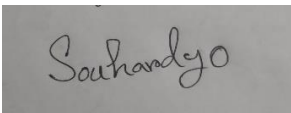


Md. Zahid Hasan
Assistant Professor
Department of CSE
Daffodil International University

Submitted by:



Tanbin Rahman Utso
ID: 172-15-9637
Department of CSE
Daffodil International University



Quazi Aumio Souhardyo
ID: 172-15-9611
Department of CSE
Daffodil International University

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ABSTRACT

We proposed “BD Mart Online Shopping” System in PHP was designed to manage the information such to produce the online shopping. It is also performed in systematic through its function requirement. The management of an online shop includes the services offers such as buying some selected products, exchange, Repair, First, the customers must be registered before having any services. Any piece of information about the product must be correct and organized to avoid any problem to be in countered like the bad feedback from the customer. The purpose of this system is to transact and deals with a nice and easier way by simply gathering information from the customer. It also helps to every individual by searching for the information needed. We are using HTML, CSS, JavaScript is a front-end & PHP & MySQL database is back-end for implement of the project.

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CHAPTER ONE

INTRODUCTION

1.1 : Introduction:

The rapid advancements in information and communication technology in today is e-commerce-society has become the significant elements of development. Its profound impacts have left in every sector of many countries economy such as education, products, accessories, gadget items and etc. In the particular, ICT tools has really changed the way of information is created, stored, use, and exchange. It important a realized that a people does not managed their products easily. We are trying to make a system for the customers that they can get their product easy way. Developed country such as the USA, the UK in the other European countries, Australia and Japan already have system that they are integrate for ecommerce facilities, and resources are minimal. If we can integrate all the facilities resources which was available we can make integrated products and customer services system which will provide in the means to manage daily emergencies and disaster in an organized. In software, we can register as an admin & need to the user registration. A user can manage the site and directly show on the all the information about their services. Admin has the power to add new products and their prices, update or managed all upload all services .In this software, we are designed and implemented.

1.2: Motivation:

During this pandemic situation we had face lot of problems for online shopping. Most of the online ecommerce sites based on their particular sellers. For this reason most common problem is quality of products are not good enough and getting cheated by the sellers.

Based on these above problems, we are highly motivate to introduce or develop a new online shopping platform which name 'BD Mart Online Shop' and having to the following features.

1.3 Objective:

- Peoples can purchase their choice able products easily at their home.
- Online platform that people can significantly reduce the amount of time to buy their products.
- Going online and find the adorable products easily.
- User could give us feedback & opinions.
- Trying to evaluate the growth of e-commerce in Bangladesh

1.4: Report Layout

The layout of this project report are as follows we used a total of seven chapters to fully present the project. These are: Introduction, Background, Methodology, Requirement Specification, Design Specification, Implementation and Testing, and Conclusion.

Chapter-1: This chapter gives an idea about the role of the project. It has Introduction, Motivation, Objective, Expected Outcome, and Report Layout.

Chapter-2: In this part, we discussed the background of the project. It has a background Introduction, Existing System, a Scope of the problem, and Challenges.

Chapter-3: In this part, we are reviewing the methodology of this project. It has Methodology, Waterfall Model, Phase of the Waterfall model, reason for using waterfall model.

Chapter-4: In this section, we have highlighted the requirement specification information of this project. There have Introduction, Overview of Proposes Modeling, Requirements Collection and Analysis, Requirement Specification, ERD, Data Flow Chart, Context Diagram, DFD Diagram Level 0, Use Case Diagram, System Architecture.

Chapter-5: In this part, we have highlighted the designs of our project. It has Database Design, User Interface, Admin Profile, User Profile, Frontend Design and Back-end Design, Description of Data Objects in Database Table.

Chapter-6: This chapter discusses the application and testing of our project. It has Implementation of Database, Testing Strategy, Unit Testing, Taste Case and lots of.

Chapter-7: This chapter give an idea of the essence of this project and the further enhancement of this project. It has a Conclusion, Future Development Scope, and reference for this report.

CHAPTER TWO

BACKGROUND

2.1 Introduction:

In this chapter, we will be discuss our project “BD Online Mart” and compare our project with the smiler projects or shops that exist online. We find that there are many online shops website that are exist in online but not all achieve website is designed to achieve only research paper. Our web based Application is different from all this existing online e commerce websites. That’s how our project is different from other e commerce websites that exists in our country. There are a lot of problems with the existing project. Not all application is nicely designed, some of the projects have not to search option in categories. Many times, there isn’t an option for the user to contact the paper owner so we will briefly describe these problems in this chapter. The scope of the problem and the challenges will be also described in this chapter briefly.

2.2 Existing System

There are many online e commerce service that exists in our country, most of e commerce are use their process of the clients and are online based. Manual scheduling can be a many establishments, as it requires significant time and staff resources for properly. After the long process, finally they decide for a deal and they reached a fare and the hand over the related and the theory literature are of the detailed below.

2.2.1 Evaly

Evaly is the largest local e-commerce company in Bangladesh. This is an ecommerce site which has to be capable for providing every kind of needs and products for every customers. This company located in Bangladesh. The business strategy of this site are full of unique. They give huge discount in their every products for the all kinds of customers. Nowadays they are leading company in Bangladesh.

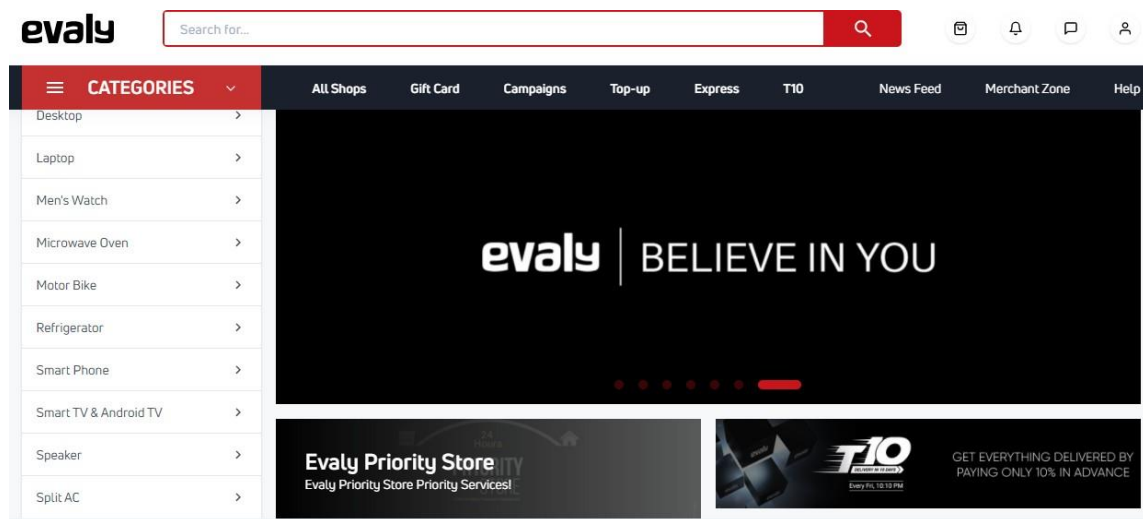


Fig 2.1: Evaly Homepage

2.2.2 Daraz

Daraz is also the largest and leading local e-commerce company in Bangladesh. They make the biggest marketplace in our country. They sell their products by seller in all over the country. They also make their pickup point for the customers in all districts. They are trying to lead the market in Bangladesh.

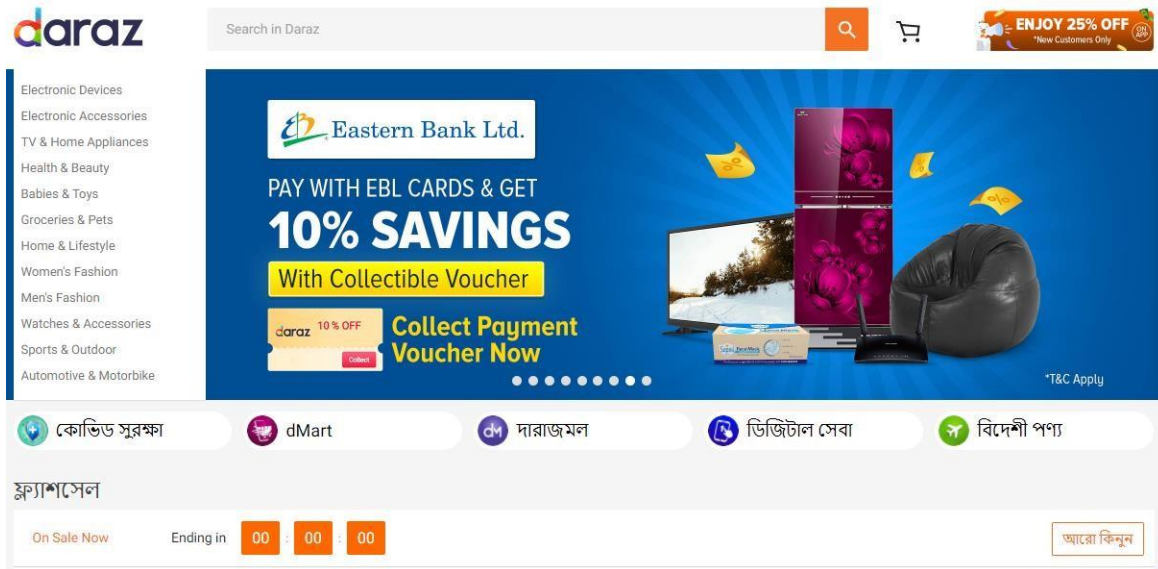


Fig 2.2: Daraz Homepage

2.3 Scope of the Problem

In our country Bangladesh there are certain numbers of problem for any business sectors.

- a) Investment is one of the main problem in any ecommerce site in all over the world.
- b) Availability for the products. Because the transport system of our country is not satisfying.
- c) There are lack of information for e-commerce industry for developed a society in Bangladesh.

2.4 Challenges

Bangladesh is a late entrant in e-commerce. Ecommerce sector is a new sector in our country but last two years for covid19 it observed it tremendous growth within a short time. Bangladesh has a great opportunity for e-commerce society to make believe in customers, but it is not at all satisfactory condition. It is a challenging factors of ecommerce includes technological factors, socio-economic factors, political factors, etc.

CHAPTER 3

METHODOLOGY

3.1 Methodology

When we build a project, we need to do planning for our software, creating it, testing it, and then deploying a project. Methodology in software development refers to all the processes that involve building a project. There are many methodologies for software development.

Each methodology has its own advantages and disadvantages. The Project Manager or developer team chooses a methodology for their requirements and benefits. Between Waterfall Model, Prototype Methodology, Agile methodology, Agile Methodology, Spiral Methodology, Rapid Application Development methodologies, we are preferring to use Waterfall Model considering our project requirements

In this section we use waterfall model to develop our project which name is “BD Mart Online Shop”. Various inconsistencies and mismanagement of our project are detected after the case study. By analyzing the finding and therefore the demand of individuals of several categories needs, we've tried to get rid of those inconsistencies and security in our project. Our findings and report we'll implement the subsequent functionalities to ablate drawback of existing system.

3.2 Phases of Water-fall Model

There are 7 typical phases identified in Waterfall model and that they are followed one by another in sequences.

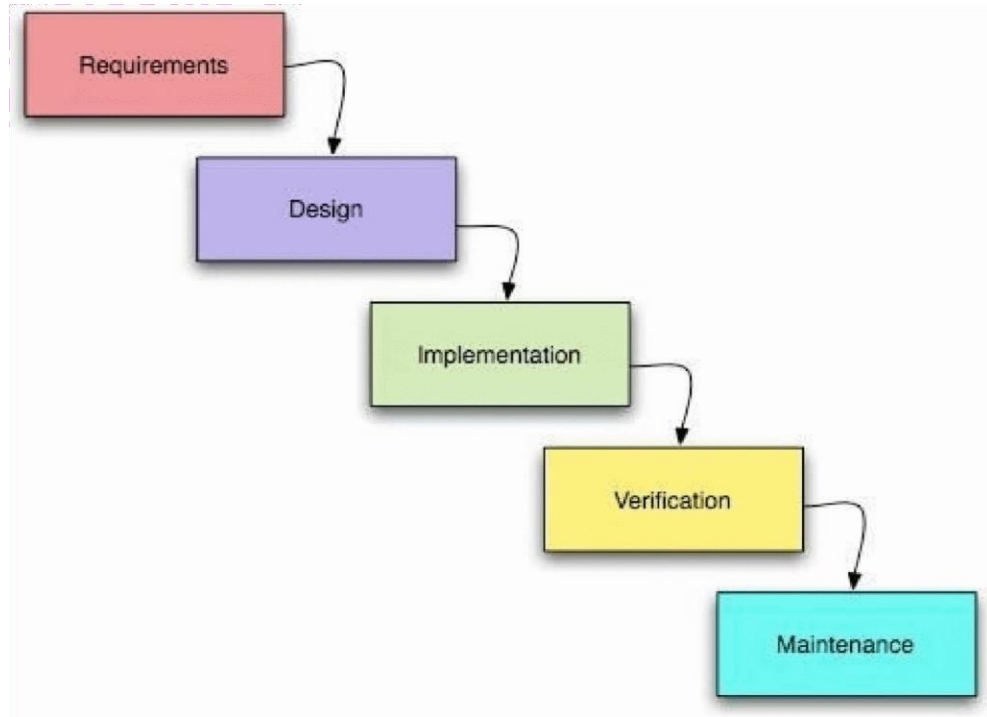


Figure 3.1: Phases of water-fall model

- i. **Requirement Specification:** Firstly, specify the need which is suitable for this project. The possibility of requirements for the system has to be developed and captured the problem in this phases.
- ii. **System Design:** It needs for specifications from first phase are studied during this phase and system design is ready. A system design helps to specifying the problems of the hardware and also helps in defining overall system architecture in any projects.
- iii. **Implementation:** To inputs from system design, we know that the system works first developed in a simple and a small programs which is called units, that is integrated within the next phase of the system. An each unit has to try for develop and tested to its functionality which is mentioned for this tests.

- iv. **Integration and Testing:** In integration and testing within the phase area of the integrated into a system after testing of every unit.
- v. **Deployment of system:** When the functional and non-functional testing are completed, the merchandise system was deployed within the customer environment or which is released into the market.
- vi. **Maintenance:** Maintenance is the main important things of any kind of system. In this system some issues which comes for the client environment. For repairing those issues the patches are released. Maintenance is capable to deliver these changes.

3.3 Advantages of Water-fall Model

- i. The waterfall model is straight forward to carry out and the amount of assets needed for it are availability.
- ii. During this model is created after each stage hence high. The customer and undertaking director get a vibe that there's extensive advancement. Here notice that in any undertaking mental factors likewise assume an urgent part.

3.4 Why We Use Water-fall Model for This Project

- i. The waterfall model is very well-known, clear and glued.
- ii. The project is straight forward.
- iii. The project is complicated, but you've got the expertise to deliver it.
- iv. It's all we all know and you've got no support for change.
- v. The upfront investment isn't risky to form.
- vi. We focus our system performance measures on delivery date and budget.

CHAPTER FOUR

REQUIREMENT SPECIFICATIONS

4.1 Introduction

Nowadays manual system don't work properly. That's why we'd like a replacement system that to scale back the matter of manual system. For this reason, we proposed a replacement system which name is "BD Mart Online Shop". Our proposed e commerce site to form a very online system to possess met with online service facilities, all manual process has been automated through this technique. A replacement system is proposed for processed through a computers. Also the system has operated by the users and Admin. Admin manage the list of the entire system, edited booking list, update product list and delete product list. Being web based makes this technique available everywhere through internet which overcomes the difficulty of the user requirements. The chapter is about the proposed system design. It'll show how the system is working, and how the database is maintain, which database is connected to which one. The chapter also contains implementation. In implementation flow chart and various sorts of code are presented.

4.2 Overview of Proposes Modeling

"BD Mart Online Shop" is a web based application project by PHP, MYSQL. It is the easiest access for services the customers to get their daily needs at home. This project is employed by users, the whole system is include the entities as admin. There are only few members, who are called as admin or project manager. They are ready to control the whole system of this site. They can a access to whole system and update any information like upload or replace a products, view all project, view users, view all feedback list, delete or edit a product list information, update a project information etc. There are no involvement of any user or customers other than admin to update the information for the security purpose of this site.

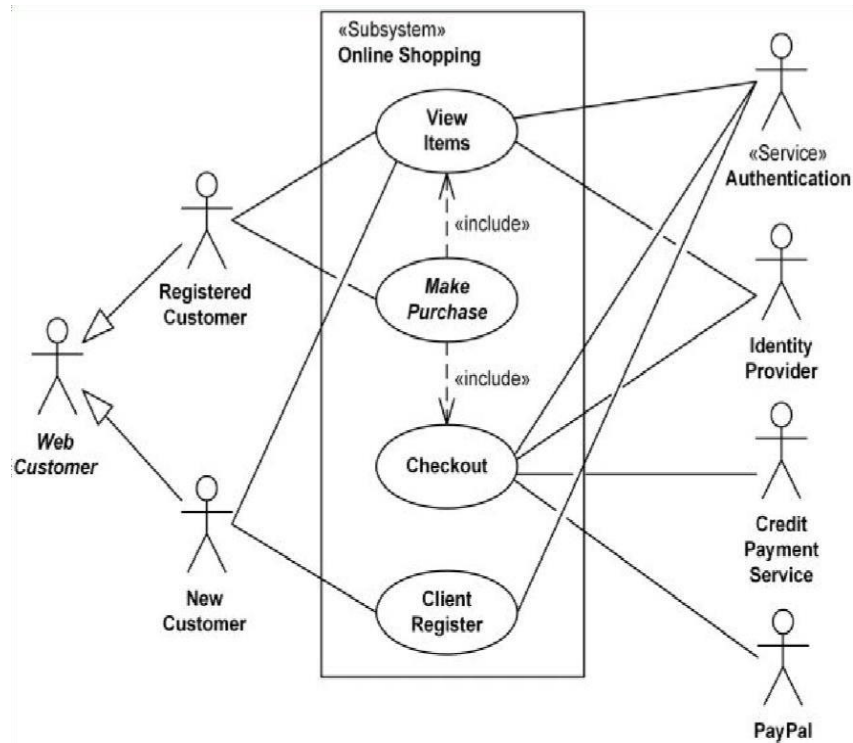


Figure 4.1: Process Modeling

The user, all kinds of users can show the all products list, look for products and also they contact the admin through the registration. Admin can add information of their own.

The admin searches the lists of all products.

4.3 Requirements Collection and Analysis

It is an organized report itemizing the portrayals of the framework's capacities, administrations and functional requirements. For this stage of this project we are trying to add more technical information and requirements to be gathered. For any software development project a system analysis is the initial phases to conduct a requirement analysis in collection. Analysis is that the process to discovered, refinement, modeling, specification and review. This method is directly associated with the standard of the software studies are significant impacts on the planning and implement.

4.4 Requirements Specification

The requirements specification are grouped as user, functional, non-functional and system requirements.

User Requirements: In the data collection, we are investigate that the located how the present system of user requirements are operates. The system users are described the essential requirements of any kind of system and this includes search the admin are often the uploaded projects and searched by select the worth, locations and area etc. Admin also update and alter an upload a new interface. The user can show the all project and different search within the upload project list.

Functional & Non-Functional

In the proposed project “BD Mart Online Shop” we described two sorts of requirements, such as non-functional requirement and functional requirement.

4.5 Entity-Relationship Diagram (ERD)

Entity Relationship may be a sort of the flowchart that illustrates how the “entities” like people, objects area to concepts relate to make every things with a system. Entity Relationship are most frequently to design and debug the relational databases with the fields for software engineering, information business systems & research papers. Also referred to as ERDs or ER Mode they use an outlined set of symbols like rectangles, diamonds, ovals and connecting lines to depict the inter connected of entities, relationships and their attributes.

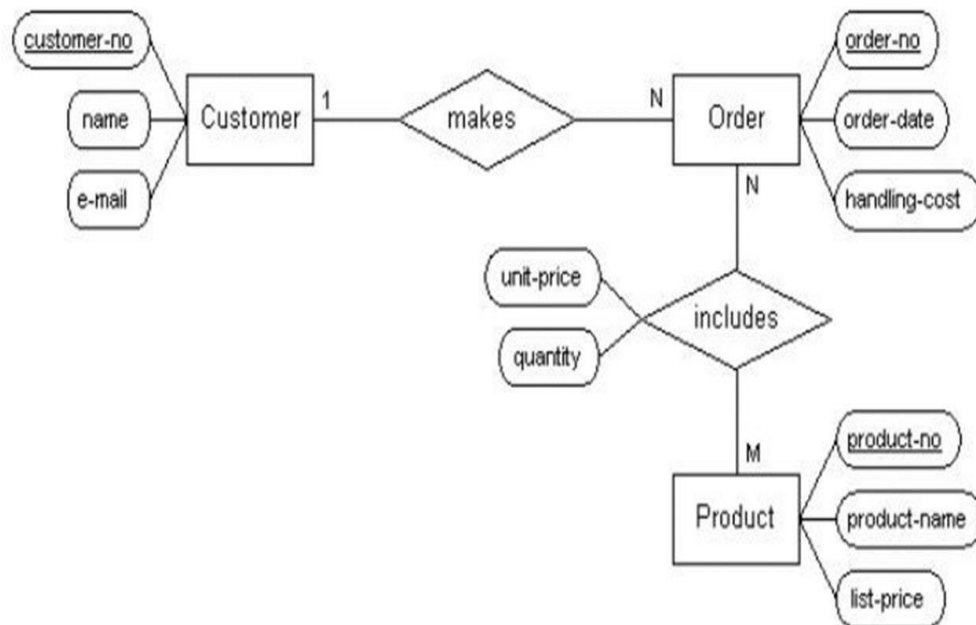


Figure 4.2: Entity Relationship Diagram (E-R diagram)

ER diagrams used to symbols for represent three differing types of data. Boxes of data are commonly wont to represent entities. Ovals are don't represent the attributes. This are describing in details within the ER modeling helps to research data requirement system to supply a well- designed database. This E-R diagram defines the database design of online shop. The rectangle denotes the entity (log in, Booking

products, product list, user and admin) the diamond denotes the connection (has, manages, give feedback, search) & the oval shape denotes attribute.

4.6 Data flow chart

Data flow chart represents to the flows of knowledge and data for different process during a business. It is a graphical technique to depict the information between the flows and therefore all the transforms to apply as data move form input toward output.

4.7 DFD Context Diagram

The following figure describes about flow of knowledge. It belongs to the user is to point out the all uploaded project and search the property. Admin panel control the system anywhere. Admin can add a new products, edit and delete the product list.

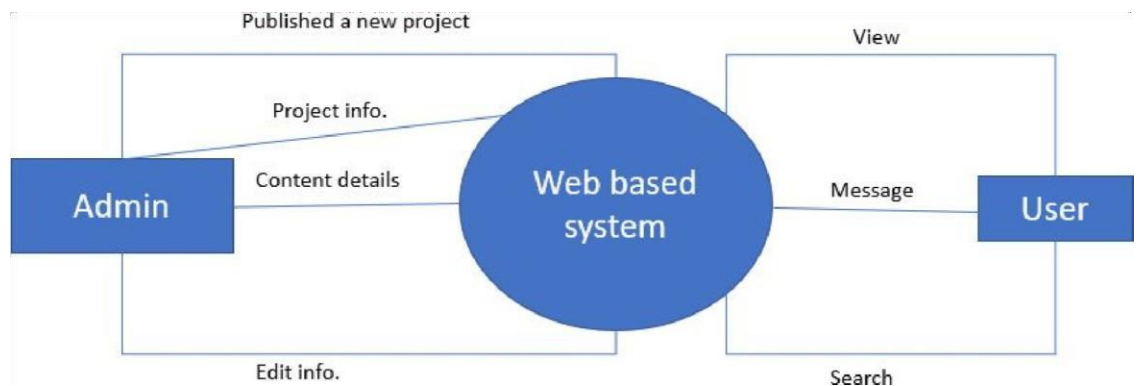


Figure 4.3: DFD context diagram

4.8 DFD Diagram Level 0

This is the level 0 diagram which describes more elaborately than the context diagram. The users can search all the uploaded list of ambulance and provide the valuable opinions. On the other hand, Admin can upload a new and modified project that show the user interface, edit a project, search a specific project and manage all the system.

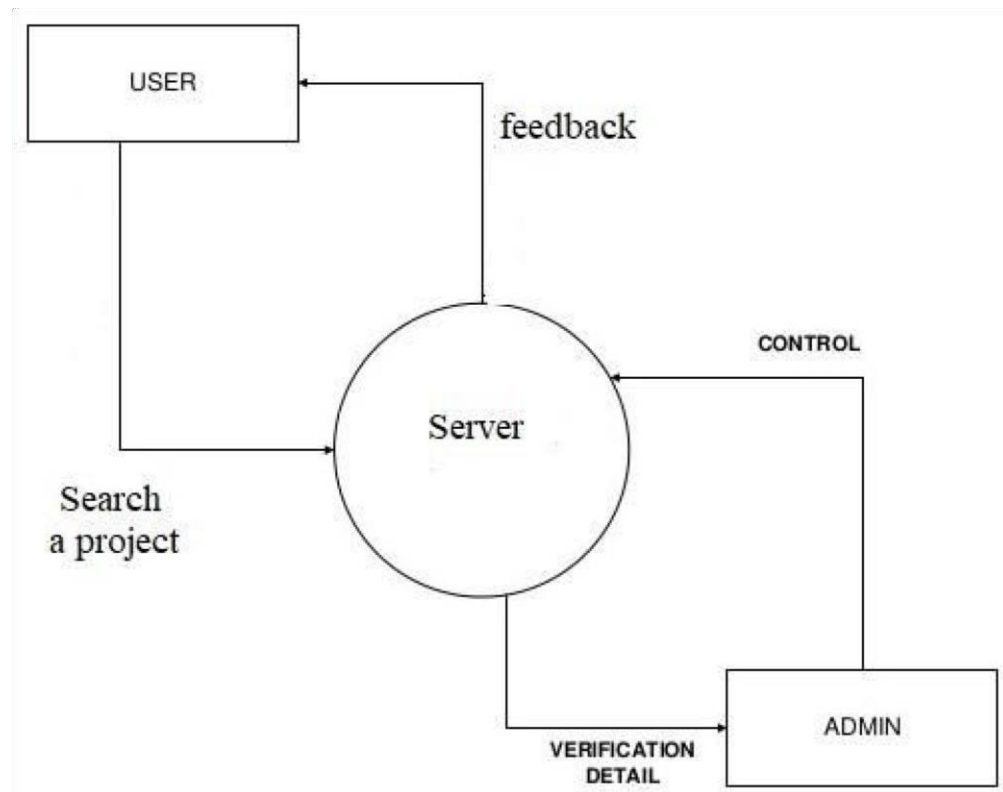


Figure 4.4: DFD Level 0

4.9 Use Case Diagram

An use case model describes what a system does without describing how the system does it; that's, it's a logical model of the system. The utilization case model reflects the view of the system from the attitude of a user outside of the system. The following figure describes about the use-case diagram of user. That means which task can be done by users. Admin can also edit his profile like – change password, upload a project, search or view specific project, edit a project and feedback from users. On the other hand the user only search or view specific project and feedback a project.

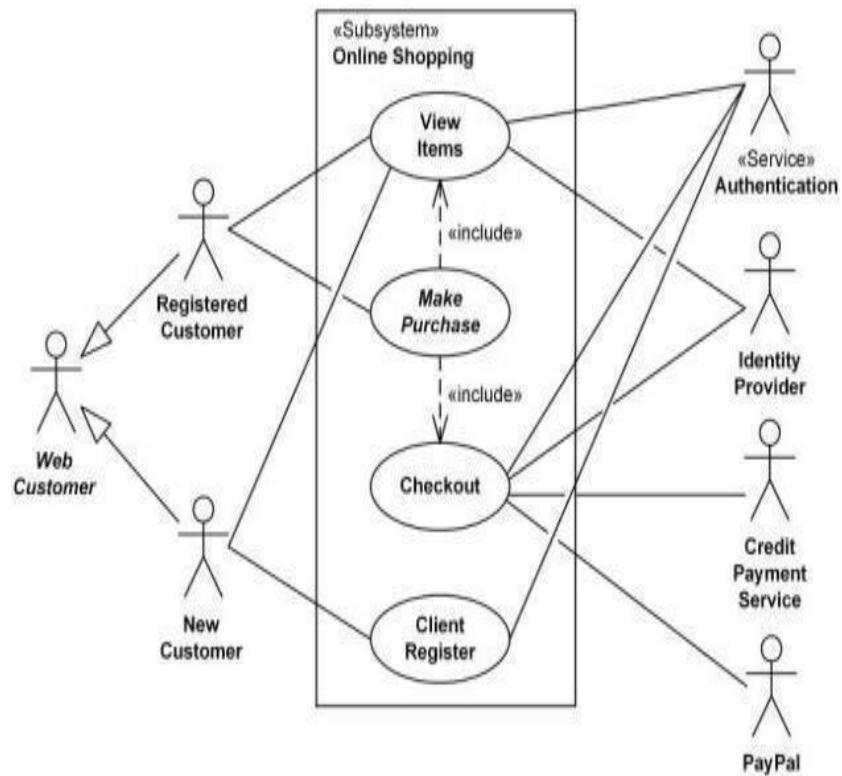


Figure 4.5: Use Case diagram

4.10: System Architecture

Systems architecture may be the generic discipline to handle objects which is called "systems", during a way to supports reasoning the structural properties about of those objects. It is a response for the conceptual & practical difficulties for the outline and therefore the design of complex systems. It shows the users and admin communicate with the system. Users only show the all upload project and admin access all the world within the system

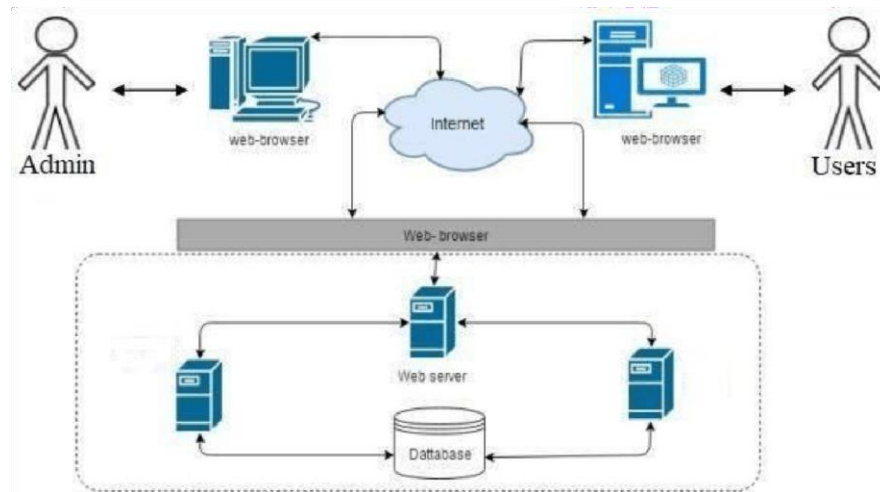


Figure 4.6: Basic system architecture

Here the user browses and search the products and the admin panel manage all the access control and moderate the upload projects. The users get access to appointment material from Internet through a web browser. The 2-tier architecture gets connected with the first-tier architecture for data exchange by means of web service. The 2-tier architecture values the use of a web server for connect to the internet by handling all http request completely for the static contexts, like images and files. It retorts to user's request through HTTP protocol, like granting back pages of HTML code. In the event the HTTP inquiry is to impart patient appointment reservation and scheduling service, the web server will forward the dynamic reply to a different server-side application situated at the application server to apply a technique to process the inquiry.

4.11: System Design

In this segment the arranging of the framework will be depicted bit by bit, framework configuration is that the examination of sets of working together components. Structure assessment is that the technique associated with get-together and interpreting real factors, diagnosing issues and using the data to recommend upgrades for the system. Structure assessment may be a basic reasoning activity that needs genuine correspondence between the system customers and system engineers. System Design helps in deciding gear and structure necessities and besides helps in describing overall.

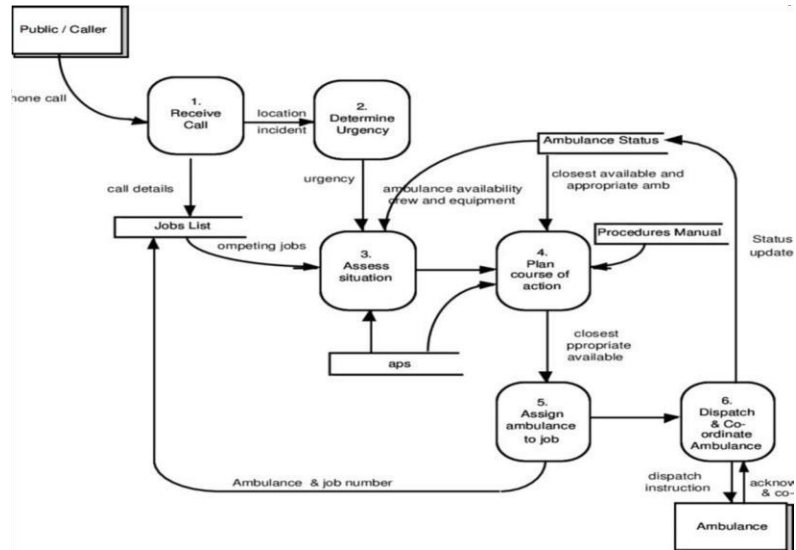


Figure 4.7: System Design

CHAPTER FIVE

DESIGN SPECIFICATION

5.1 Database Design

This section will describe how the system's database is designed. Database design is a crucial part of software design. The database design is directly associated with the merits of the program to realize the efficiency and ease of knowledge access.

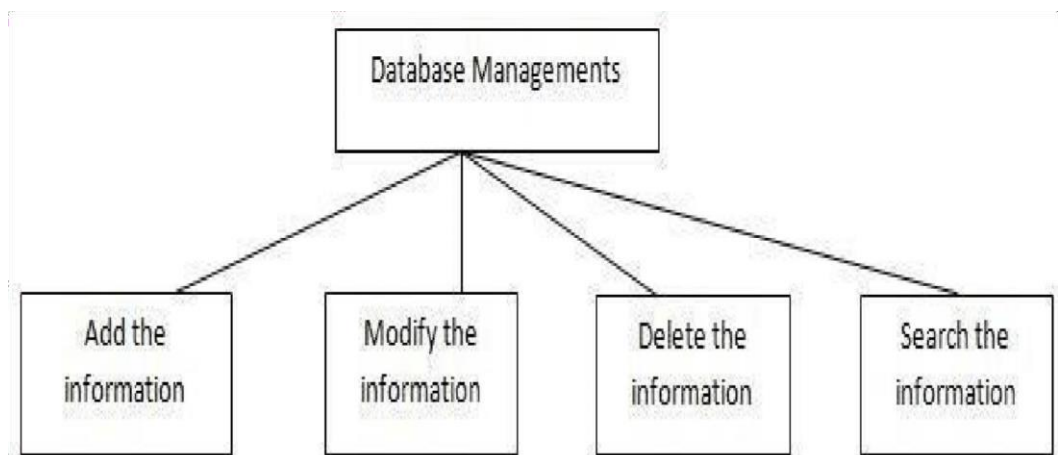


Figure 5.1: Basic of database design

5.2 User Interface

The user interface is a very important part to develop any e-commerce business. A good and user-friendly interface attracts the customers to buy new products.

- i. Signup Page: An admin or customer needs to log in using login id and password.
- ii. Home Page: See all of the latest products.
- iii. Login Page: Customer can log in to buy new products.
- iv. Search Page: The user can search the products by using this search page.

5.3: Admin Profile

It is assigned to the main developer or who the user has full access to the whole system. In the admin module contains admin id, name, address. Admin can view the booking list of products, make changes if required, delete list. Check all the orders status, view, and manage the products details.

5.4 User Profile

- i. User can view his profile.
- ii. User can view different categories of product and can read details.
- iii. User can buy any product.
- iv. User can contact with the admin by chat option.

5.5 Front-end Design

The front end is the most crucial part of any development site because the user interacts directly with the software front end. So if the front-end design is good then it is easy for the user to clearly understand the use of the application. So for making this Software we emphasize making the front end very user-friendly

Home page Status

Here is the main home page in our ecommerce for the user site. When the user can show the site then they show the screen

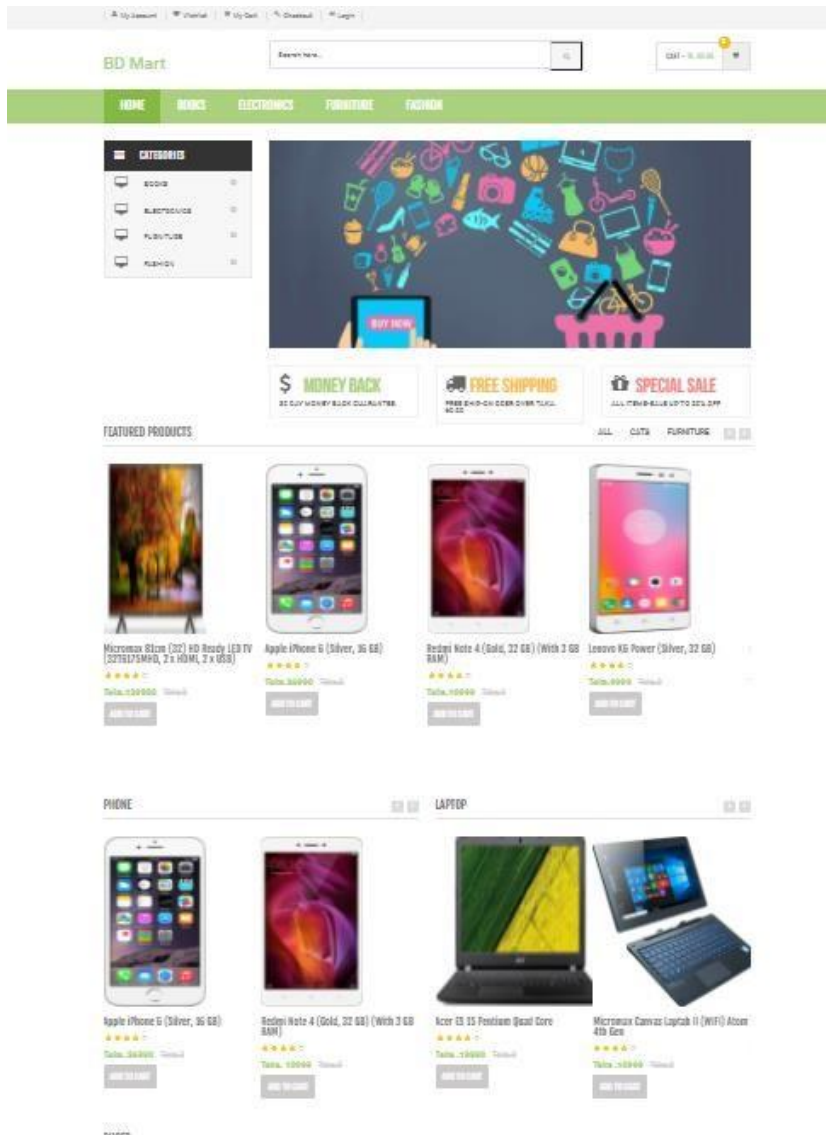


Figure 5.2: Overview of homepage

In the figure 5.2: shows the home screen of our application. A user can get all of the products select product, and read his desired paper here. They can search the type of products which wants to buy. But for order a product, they needs to log in first by their phone number email address to log in.

CREATE A NEW ACCOUNT

Create your own Shopping account.

Full Name *

Email Address *

Contact No. *

Password. *

Confirm Password. *

SIGN UP

SIGN UP TODAY AND YOU'LL BE ABLE TO :

Speed your way through the checkout.

Track your orders easily.

Keep a record of all your purchases.

Figure 5.3: Create new account page

SIGN IN

Hello, Welcome to your account.

You have successfully logout

Email Address *

Password *

[Forgot your Password?](#)

LOGIN


Figure 5.4: User Login

After successfully signing in, any customer can see his profile as well as buy all the products. A complete profile of his activity will be shown on the dashboard.

5.7 Search and Select

There are many ways of searching a products

- i. User can search the products by the types of categories and select easily.
- ii. User can search the products by direct searching and select.



HP Core i5 5th Gen

★★★★☆ (0 Reviews)

AVAILABILITY: **In Stock**

PRODUCT BRAND: **HP**

SHIPPING CHARGE: **Free**

TK. 41990 ~~TK.0~~

QTY: 1

SHARE: [f](#) [t](#) [in](#) [s](#) [@](#)

DESCRIPTION

REVIEW

HP Core i5 5th Gen - (4 GB/1 TB HDD/Windows 10 Home/2 GB Graphics) N8M28PA 15-ac123tx Notebook (15.6 inch, Turbo Silver, 2.19 kg)


Intel Core i5 Processor (5th Gen)
4 GB DDR3 RAM
64 bit Windows 10 Operating System
1 TB HDD
15.6 inch Display

Figure 5.5: Products Details

Products Details hold the data about the specification in the selected item, type, name etc.

5.8 Order a Product

To order a new products, first of all customer select a product from home or searching. After select a new product they need to login with their account in this site, then they select their address, payment option, phone number. They get a confirmation message for the ordering product.

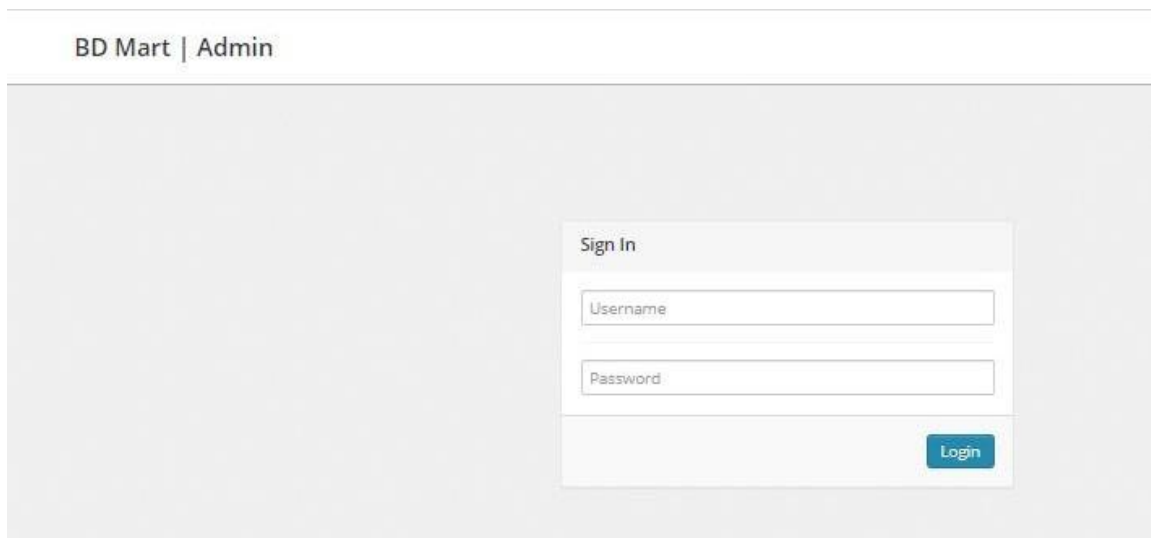
Remove	Image	Product Name	Quantity	Price Per unit	Shipping Charge	Grandtotal
<input type="checkbox"/>		HP CORE I5 5TH GEN ★★★★☆ (0 Reviews)	1	TAKA 41990.00	TAKA 0.00	41990.00
CONTINUE SHOPPING		UPDATE SHOPPING CART				

SHIPPING ADDRESS	BILLING ADDRESS	GRAND TOTAL 41990.00
		PROCEED TO CHECKOUT

Figure 5.6: Order Products List

5.9 Back-end Design:

In the backend section, an admin can log in with his username and password.



The screenshot shows the admin login interface for BD Mart. At the top left, there is a breadcrumb trail: "BD Mart | Admin". The main content area is a light gray box containing a "Sign In" form. The form has two input fields: "Username" and "Password". Below the "Password" field is a blue "Login" button.

Figure 5.7: Admin login Section

5.10 Insert a New Product

The following table 3.1 contains the adding new product table where the attributes are product id, category, subcategory, product name, product Company, product Price, productImage1, productImage2, productImage3, shipping charge, product Availability,

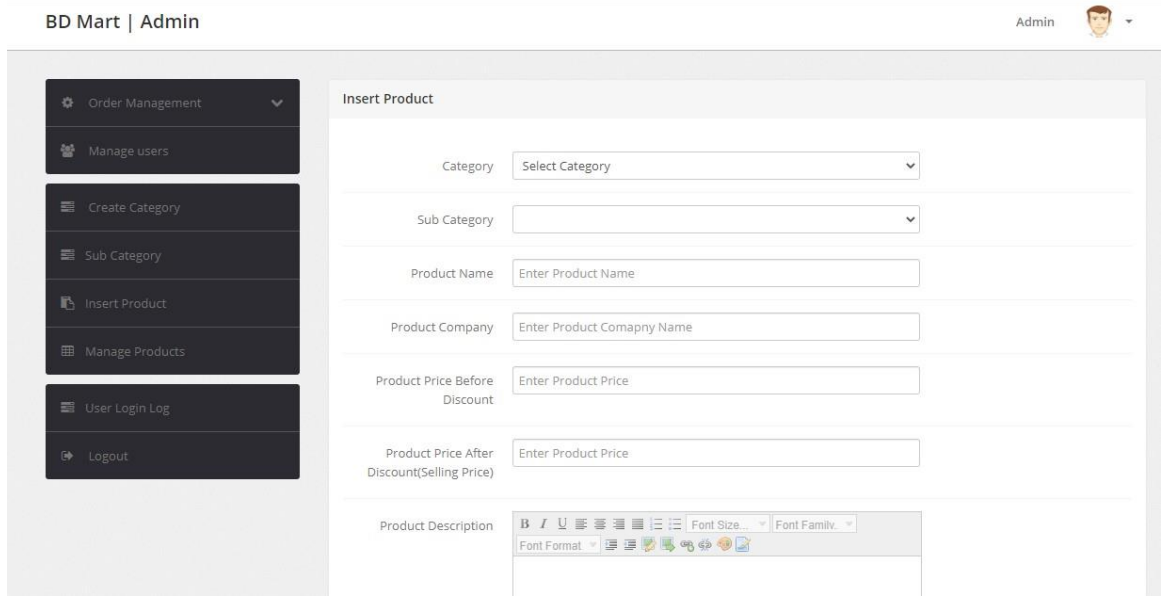


Figure 5.8: Insert a new product

Where the user id is the primary key. Here is the following table 3.2 is given below,

<input type="checkbox"/>				Tanbin Rahman	tanbinrahman@gmail.com	900867888	8226918e2754e5e09756d58a6733261	Dhaka	Mohammadpur	Dhaka	110001	Dhaka	Dhaka	Dhaka	110092	2021-07-30 01:30:50
<input type="checkbox"/>				Amit	amital@gmail.com	8286703366	5c42868875d294807f9e3e134d71b4				0				0	2021-08-16 23:21:22
<input type="checkbox"/>				hg	hgfhg@gmail.com	1121312312	827c0b0eeea8a708c4c34e1889184e7b				0				0	2021-07-29 16:30:32
<input type="checkbox"/>				Tanbin Rahman	tanbin01808088@gmail.com	1717813412	827c0b0eeea8a708c4c34e1889184e7b	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2021-08-16 23:52:51

Table 5.1: Data object in database table for order information

The table 3.3 contains the state information. The attribute of the tables is register id, names, address. Here the register id is the primary key. The following table 3.3 is given below,

id	name	email	contactno	password	shippingAddress	shippingState	shippingCity	shippingPincode	billingAddress	billingState	billingCity	billingPincode	regDate	updateon
1	Anuj Kumar	anuj.ku1@gmail.com	900867888	f92910e2754e5e09756d58a6733261	CS New Delhi	New Delhi	Delhi	110001	New Delhi	New Delhi	Delhi	110092	2017-02-06 01:30:50	
2	Amit	amta@gmail.com	8286703366	5c42868875d294807f9e3e134d71b4				0					0	2021-02-15 23:51:25
3	hg	hgfhg@gmail.com	1121312312	827c0b0eeea8a708c4c34e1889184e7b				0					0	2018-04-29 15:30:32
4	alta shah	altass@gmail.com	112100729	bee10b7751128c0f6870e0b87f8ee	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2018-07-21 12:32:34	NULL
5	moeed	moeed@gmail.com	112100724	101e10e42ee548f48623a2143788230	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2018-07-21 12:33:13	NULL
6	adeel	adeel2099@gmail.com	111111111	101e10e42ee548f48623a2143788230	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2018-07-22 02:25:37	NULL
7	afnan	afnan@gmail.com	122112121	9fa33a6c58c0de78f18e01a8a01838	NULL	NULL	NULL	NULL	Buki jali	bukij jali	kuala lumpur	67000	2018-07-23 08:58:49	NULL
8	Md Safayet Hossain	safayetbub111@gmail.com	197708400	abd2449118894d26d087e1e1856c0b88	1325/2 East Shaurapara	Mipur	Dhaka	1300	1325/2 East Shaurapara	Mipur	Dhaka	1300	2020-10-12 11:39:42	NULL
9	Shah Ishtak Shanto	shantobut303@gmail.com	17854423	0c2f952081e991c791a891a8c480e85	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2020-10-14 12:38:38	NULL
10	Yezas	abc@gmail.com	193482170	2595ac283aa40a1484782713c07ae	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2020-10-24 18:38:59	NULL

Table 5.2: Data object in database table for registration information

The table 5.2 contains the order customer information. The following table is given below,

+ Options													
← T →													
				id	userId	productId	quantity	orderDate	paymentMethod	orderStatus			
<input type="checkbox"/>		Edit		Copy		Delete	3	1	4	1	2021-07-11 01:43:04	Debit / Credit card	Delivered
<input type="checkbox"/>		Edit		Copy		Delete	4	1	17	1	2021-07-08 22:14:17	COD	in Process
<input type="checkbox"/>		Edit		Copy		Delete	5	1	3	1	2021-08-09 01:21:38	COD	NULL
<input type="checkbox"/>		Edit		Copy		Delete	6	1	4	1	2021-08-09 01:21:38	COD	NULL
<input type="checkbox"/>		Edit		Copy		Delete	7	4	20	1	2021-08-16 23:55:55	COD	NULL
<input type="checkbox"/>		Edit		Copy		Delete	8	4	3	2	2021-08-17 00:49:37	COD	NULL
<input type="checkbox"/>		Edit		Copy		Delete	9	4	1	1	2021-08-17 01:07:56	NULL	NULL

Table 5.3: Data object in database table for order products information

5.11 Database Schema

The data set outline of a data set is its construction depicted during a conventional language upheld by the administration. The terms of schema to the association of information as an outline of how the data set is made.

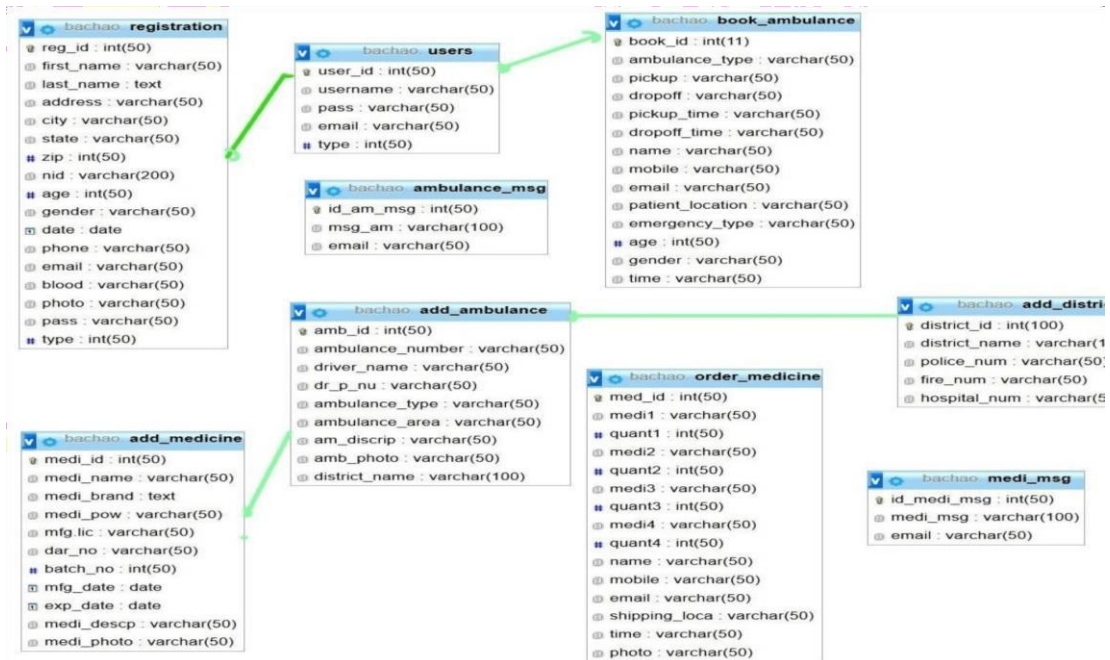


Figure 5.9: Database schema

The following figure describes about the database schema. Database schema means how the database table are connected to each other that means how the database is designed. In this figure, we see that one database is connected with other. The users table is connected with users and all are connected by admin.

5.12 Implementation

Implementation is the realization of an application or execution of the plans, ideas, model and design. This section describes the project implementation for developing the web Course Registration System. The project implements PHP, MySQL, and standard HTML and CSS.

The project are going to be capable of running on standard internet web browsers. The small print of PHP, MySQL, and standard HTML and CSS.

5.13 Conclusions

A good project depends on good design and good implementation according to the design. This chapter is actually about the system analysis which contains mainly used method to draw up the system procedure through diagrams, flowcharts, database schemas. That means how the system is designed, how the database is designed and implemented the whole system. Various types of system test are also included here with database tables and error handling. This chapter will be able clear the details about our project.

CHAPTER SIX

IMPLEMENTATION & TESTING

6.1 Testing

Testing plays an important role within the success of the system. System testing makes all the parts of the system are correct useful, the goal are going to be successfully achieved. A program code has been developed, testing begins. The testing process focuses on the logical internals of the software, ensuring that each one statements enhance be tested, and on the functional externals, that's conducted tests to uncover errors and make sure that defined input will produce actual results that accept as true with required results.

6.2 Objectives of Testing

- a. Testing is a process of executing the main program with finding the error of a projects.
- b. For a good test is one that features a high probability of finding on unpredictable error.

6.3 Testing Strategy

As each module is developed it's tested and if found faultless is integrated in main module.

- a) Each test plan thing ought to have the ensuing explicit attributes, it ought to be extraordinarily recognizable.
- b) It ought to be unambiguous.
- c) It ought to have distinct test-information.
- d) It ought to be not difficult to record.

6.4 Testing Methodologies

To be truly robust, distributed applications require quite simple functional testing before release into production. a minimum of one and preferably all of the subsequent sorts of testing before releasing application to customers should be performed.

- a) Performance Testing.
- b) Over Testing.
- c) Limitation Testing.
- d) Overview Testing.

6.5 Unit Testing

Unit testing is a testing technique that are using to individual modules of tested to work out. If there are any issues by the developer himself. A number of sets for more computer virus modules associated control data, usage procedures, and operating procedures, are tested to work out whether or not they are fit to use. It's performed by using the whit e box testing method. Preparing the unit test tastes document which is complete with every possible test suite, is a crucial task in Unit Testing activity. It gives an assurance of defect-free Unit at the top of Unit Testing stage.

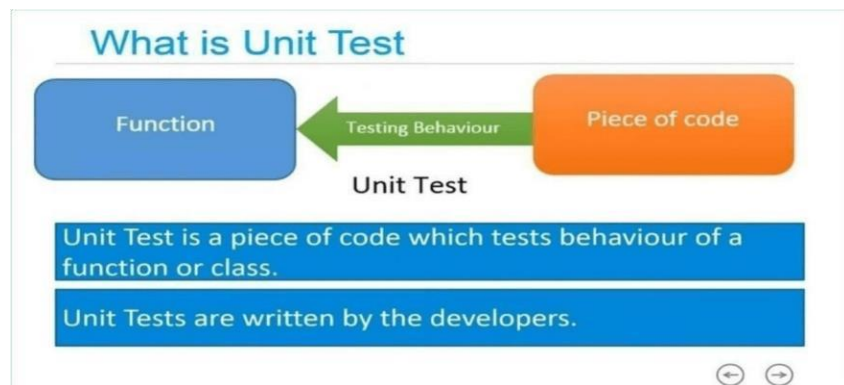


Figure 6.1: Unit Testing

- i. Input values: Write test cases for every of the identified inputs (positive & negative) accepted by the Unit.
- ii. Expected Functionality: to hide all functionality that's expected to be within the Unit.
- iii. Output values: Write test cases, which can produce all kinds of output values that are expected from the module/unit.
- iv. Path coverage: If the Unit has conditional processing those leads to various paths, then write test cases to hide each of those paths.
- v. Abnormal terminations: Behavior of the Unit just in case of abnormal termination should be tested.

6.6 Test Scenario

A Test Scenario is any functionality which will be tested. it's also called Test Condition or Test Possibility. Test scenario consists of an in depth test procedure. A test scenario has many test cases related to it. Before executing the test scenario, we'd like to consider test cases for every scenario.

SL No.	Test Scenario ID	Test Scenario Description
1	TS 1.1	Username and Password Match
2	TS 1.2	Invalid Username and Password

Table 6.1: Example of test scenario

6.7 Conclusions

The system is built such a way that it will be useful and user friendly to general user. Result analysis give a brief how we execute our overall system through testing, observing, analyzing. This is the proper way system is working properly or not. It also means the system provides mainly what kinds of facilities and if it is better and reliable option for people to get online registration through our system. The application of the system also belongs in this part that clear we have created our expected online emergency ambulance system to support people with saving their time and energy.

CHAPTER SEVEN CONCLUSION

7.1 Summary

It was an excellent opportunity for us to figure in 'BD Mart Online Shop' Project and style a system of it but there have been surely some limitations while implementing this technique. To scale back those limitations we've some future plans also. This project is meant to satisfy requirements of a 'BD Mart Online Shop'. It's not effective and time saving for clients, if a client needs a products first attend the web site . Then booking for the products. Customers must give all his information to the admin to book the products. It takes for input all information of registration of all processes. Today the utilization of website is becoming vital within the fields of "BD Mart Online Shop' we try our greatest to develop pretty, powerful, user friendly and secure website for private and professional use. We expect it's helpful for general people of all categories. We attempt to fulfill all necessary requirement and features that provide other online-based system. This website isn't very dynamic but it's extendable. If the web site must extend than we must need to work title on the database. Therefore, we've to demand to develop an internet site that considers all the problems. Keeping of these things in mind, we've tried our greatest to create an internet site, which is secure, dynamic, extendable, and reusable. There still has the chance to feature other features that aren't mentioned here. We've researched for an extended time on previous manual system and online system of Online Course Registration System. We discover out the issues of previous system and tried to specialize in those problems. Then we designed a demo of our system and eventually started our main work consistent with the planning. Several software were used while making the project, like HTML, CSS, PHP, JavaScript, Xampp etc. If we release our software within the market, then both the users and government get benefits from this.

7.2 Further Enhancement

We will add some new features for this ecommerce application. We can make this application more user friendly by developing and upgrading its features and modules. This application is designed for only customer for selected area. In future we will add a seller section to sells their product by our ecommerce site. This application is web based. We want to make an android app and an IOS app so that everyone can easily access the application within a short time

- a) We are provided to facilitate the users.
- b) Lease option should be provided booking a product.
- c) Sending SMS to the user who have registered his information in this shop.
- d) Mobile application is that the best reliable things now a days, in future we'll build mobile app.

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