

DESIGN AND DEVELOPMENT OF SECURITY EQUIPMENT MARKET

SUBMITTED BY

Al-Amin

ID: 162-15-8146

This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Computer Science and Engineering.

Supervised By

Md. Jueal Mia

Sr. lecturer

Department of CSE

Daffodil International University

Co-Supervised By

Md. Zahid Hasan

Assistant Professor

Department of CSE

Daffodil International University



DAFFODIL INTERNATIONAL UNIVERSITY

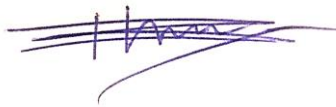
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APPROVAL

This Project titled Design and development of security equipment market Secured BD, submitted by Al-Amin 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 September 2021.

BOARD OF EXAMINERS



Dr. Touhid Bhuiyan

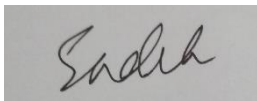
Professor and Head

Department of Computer Science and Engineering

Faculty of Science & Information Technology

Daffodil International University

Chairman



Md. Sadekur Rahman

Assistant Professor

Department of Computer Science and Engineering

Faculty of Science & Information Technology

Daffodil International University

Internal Examiner



Gazi Zahirul Islam

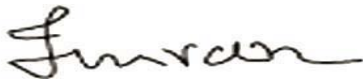
Assistant Professor

Department of Computer Science and Engineering

Faculty of Science & Information Technology

Daffodil International University

Internal Examiner



Shah Md. Imran

Industry Promotion Expert

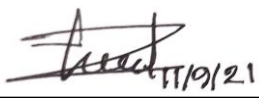
LICT Project, ICT Division, Bangladesh

External Examiner

DECLARATION

We hereby declare that this project report has been prepared by us under the supervision of Md. Jueal Mia, Department of Computer Science and Engineering, Daffodil International University of Bangladesh, for the partial fulfillment of the requirement for the B.Sc. degree from the Department of Computer Science and Engineering at Daffodil International University. We are also declaring that this project report is original in nature and has not been submitted elsewhere.

Supervised by:



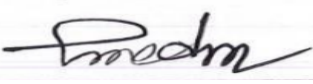
Md. Jueal Mia

Sr. Lecturer

Department of CSE

Daffodil International University

Co-Supervised by:



Mr. Ahmed Al Marouf

Lecturer

Department of CSE

Daffodil International University

Submitted by:



Name: Al-Amin

ID: 162-15-8146

Department of CSE

Daffodil International University

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ABSTRACT

The entitled Design and Development of the Security Equipment Market Place with any luck going to be gaining greater reputation each day because the variety of the Site Ecommerce customers is growing rapidly. As the variety of customers is rising, there's a want for powerful control of safety. One such powerful device is our Design and Development of Security Equipment Market Place that is designed the use of PHP as frontend and MySQL as backend. The layout and improvement of the safety system marketplace vicinity is an answer the principle goal of our paintings is to offer the customers such type of capability that will look for safety gadgets through its subject, titles or manufacturers and that they also can purchase and hire safety gadgets thru the device. The transactions like login, register, add, search, delete, the problem is provided. Design and improvement of safety system marketplace vicinity shops the info like name, address, ID variety, Date of Birth of individuals running with inside the web page and customers who come to the web page

Keyword: Security, E-commerce, PHP, MySQL, Transactions, Rent, Devices.

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CHAPTER 1

Introduction

1 Introduction

There are many on line safety device shops like Security Bazar BD, Amazon, Daraz, which can be internet base utility. We can use it like Amazon We have created internet site that is Design and Development of Security Equipment Market Place. Our machine is on line purchasing machine is specifically with a purpose to fulfill the customers purchase and hire safety product on line Management, speedy and smooth, particularly advanced and layout an hour on line Ecommerce platform [1]. Online safety product parches is an internet internet utility in which the client should purchase safety device on line. We can use it like Amazon, via an internet browser the clients can look for safety device via way of means of its identify or author, later can upload to the purchasing cart [2].

1.1 MOTIVATION

The primary goal of this assignment is to create a Design and Development of Security Equipment Market Place that each one customers permits to look choice additionally purchase and hire a protection motive system on-line primarily based totally gadget. Our web website online gadget online ecommerce purchaser motivation to three key elements the precise quantity of selections alongside the way. You may be bored and go browsing to browser your preferred ecommerce sites. We can take you anywhere. Interest to increase a very good person pleasant internet application. On our to be had product growth our information in technology like PHP, MySQL, CSS, HTML, JavaScript and JQuery.

1.2 Objective the Project

Enable and disable the administrator to get entry to the device from anywhere.

Reduce statistics redundancy and ambiguous statistics.

Secure the statistics and impede the get entry to of unauthorized person.

An informative database of person and administrator.

Developed with the aid of using a person pleasant environment.

1.3 Research Questions

Enable and disable the administrator to get right of entry to the device from anywhere. Reduce records redundancy and ambiguous records. Secure the facts records and hinder the get right of entry to of unauthorized person. An informative database of person and administrator. Developed through a person pleasant environment.

1.3.1 What is this project?

The venture is known as Design and Development of Security Equipment Market Place that's a web product shop. Users can lessen their treasured instances and have enough money their prices in line with their capacity gadgets buy. We will gain loads of cash and gain loads of venture is a totally beneficial aspect for us.

1.3.2 What are the functions of this project?

Using this undertaking consumer are shopping for and renting desire complete safety tool and product via online. So we don't need to fear now. We lease our cc tv, nvr and dvr.

1.4 Contribution of the Project

There are plenty of internet programs in Bangladesh associated with the net safety gadget system save and inventory. Some of humans like our internet programs are Security Bazar BD, Amazon, etc. we're sale our web website online however they simply offer on-line promote gadget. Our applied gadget is special through than different present application, our challenge simply now no longer offer purchase and promote gadget, promote and renting offer each gadget. There might be many advantages in our each day life. I want CCTV cameras very much.

1.5 Project Outline

- Chapter 1: Literature Review on this bankruptcy, we've got defined literature review, studies hole and proposed answer of our growing systems. So we do not must fear now. We lease our CC TVs. Anyone can lease those devices.
- Chapter 2: Designed and Implementations on this bankruptcy we've got describe the net buying machine is specially which will fulfill the customers buy & cell, lease protection gadget on-line is convenient, particularly evolved Increment an internet ecommerce platform.
- Chapter 3: Used Technologies and Test Plan on this bankruptcy we've got defined the technology we used. Technologies and additionally defined to increase a take a look at plan for the Designed and Development of Security Equipment Market Place.
- Chapter 4: These TVs may be utilized in any event. Our matters may be rented at faculty activities or seminars.
- Chapter 5: Conclusion The cause of the internet site is to create Design and Development of Security Equipment Market Place Secure BD. offices, courts, road, extra places.

CHAPTER 2

Literature Review

2.1 Introduction

We evolved Design and Development of Security Equipment Market Place Secure BD. System for the humans to offer them a higher on line protection equipment's shop. At gift many humans can't have the funds for to shop for high-priced absolutely each person protection equipment's for economic problems, There are many web sites that include the offerings like Security bazar BD, Amazon etc. Other web website online but their provider is a touch distinct from them. To enhance this situation, we're going to develop an internet utility named "Design and Development of Security Equipment Market Place. Our assignment is similar to Amazon. We can hire and promote on line like them. We are the quite simple net web website online.

2.3 Methodology

Various inconsistencies and mismanagement of numerous Design and Development of Security Equipment Market Place structures are detected after the case observe and my findings. We are truth and protection studying the locating and the call for incredible and now no longer of human beings of numerous classes we've attempted to take away the ones inconsistencies and surroundings protection risk in our system. Based on my findings and document we are able to put in force the subsequent functionalists to ablate the drawbacks of current system.

2.3.1 Developed the crucial functionalists

This will encompass the improvement and fertilize the management a part of our task. To be able to encompass upload admin, edit admin, purchase or hire safety equipment's and so on. This CC TV may be very beneficial to us. So anybody relies upon on it. CC TV is now utilized in homes; Our task is similar to Amazon.

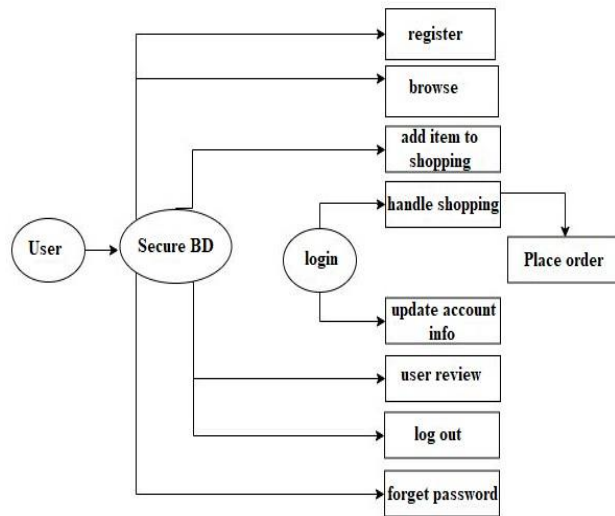


Figure 2.1: Customer use case diagram

2.3.2 Facilitating the user for allowing them access in the system

In my subsequent section we are able to expand the panel and consumer get entry to login. he before everything registration for consumer in order that this could permit them to pick out class whenever from everywhere with information information. This capability can be a main trouble one due to the fact maximum of the consumer desires to recognize each element of the product and order information.

2.3.3 Use of waterfall method

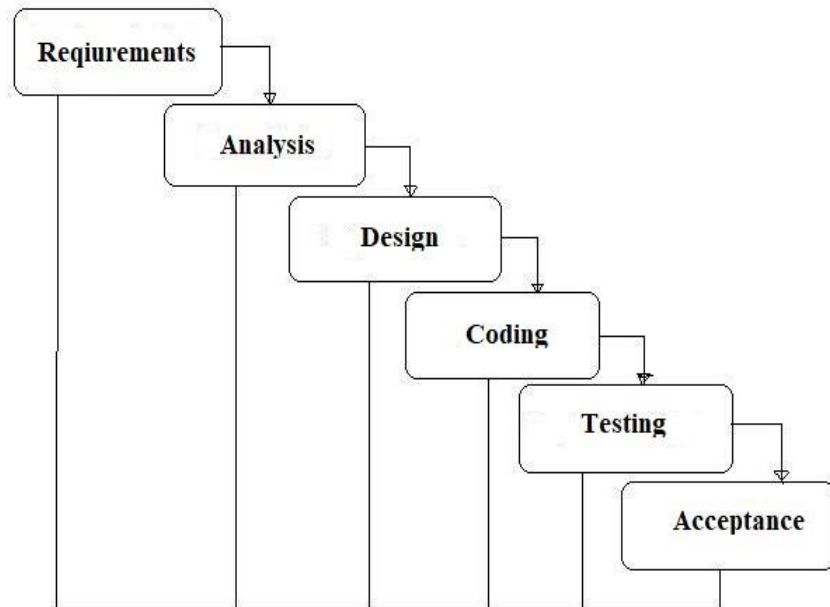


Figure 2.2: waterfall method

In Royce's unique waterfall version, the waterfall version firstly includes seven stages which are:

- Requirement specifications
- Design
- Construction
- Integration
- Testing
- Debugging
- Installation

All viable necessities of the gadget to be evolved are said on this phase. Our requirement quite simple and the easily, Requirements are a fixed of features and constraints that the cease person expects from the gadget.

2.3.4 Proposed solutions

In our utility, we are able to serve higher centers for our regular humans use. That is time and fee saving. Our carried out device is exceptional than different present utility and get right of entry to easy however do now no longer get right of entry to, due to the fact some other utility presents simply purchase and protection equipment's however a shopping for device, offer shopping for and renting each device. So, there are 3 varieties of customers utilized in those systems, the ones are System administrator, Guest customers and first of all sign in customers checking out user.

2.3.4.1 Administrator

- Administrator could have consumer pleasant asynchronous get right of entry to GUI (Graphical User Interface) system.
- Can be accessed from everywhere of the sector any time.
- Add or delete, insert, marge product name.

2.3.4.2 Registered use

- User can choose, purchase and hire any varieties of product from this web website online handiest login.
- User can seek any type of product from our website.
- User can without difficulty get right of entry to our website

2.3.4.3 Guest user

- Users can display all facts of product/ device. - User can seek any form of product/device from this website. - Users can bitch approximately the website. - Users can touch with the admin person.

CHAPTER 3

Design and Implementation

3.1 Introduction

Online buying machine is particularly so one can fulfill the customers purchase and lease safety machine and others web website online on-line store gadget on-line is convenient, fast and very smooth, specially developed an on-line ecommerce platform. So our platform could be very simple. Online safety gadget parches is a web internet software in which the client should purchase merchandise on-line service. If you need purchase our product or lease.

3.2 Data Dictionary

A facts dictionary is a group of descriptions of the facts series gadgets or objects in a facts modeling for the gain of programmers and our others who can want to consult them. The first step on this web page reading a device of our venture the call off his enterprise web page. This procedure is near known as facts modeling and consequences on web page in a image and picks of item relationships. After every different vital facts item or object is given a descriptive call, into the workplace server this series may be prepared for reference right into a product known as a facts dictionary.

- In order to control the information in massive scale structures Company.
- Most famous structures are ongoing and dynamic and static control device of all of the descriptive information difficult, consequently an correct and steady recording method is critical product
- To speak device a not unusual place which means for all the factors with inside the device?
- Simply making and positive that for all factors, our carrier which means will remain.
- To file functions of the device roles.
- It is critical to files the situations below the took which facts objects occur.
- To discover mistakes and commissions with inside the device.

3.3 Use Case Diagram

User and Administrator are the 2 actors protected with inside the on line safety tool Store.

Fig.4.1 indicates the use case diagram

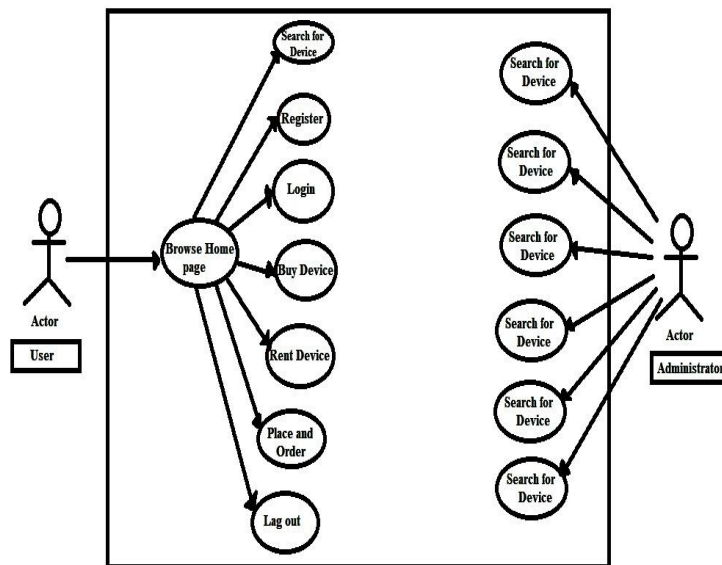


Figure 3.1: Use Case Diagram

3.4 Activity Diagram

Activity diagram to explain the dynamic components of the system. Activity diagram is largely a flowchart and quite simple to symbolize the go with the drift from parent one interest to every other interest. The interest may be defined our web page as an operation of the system.

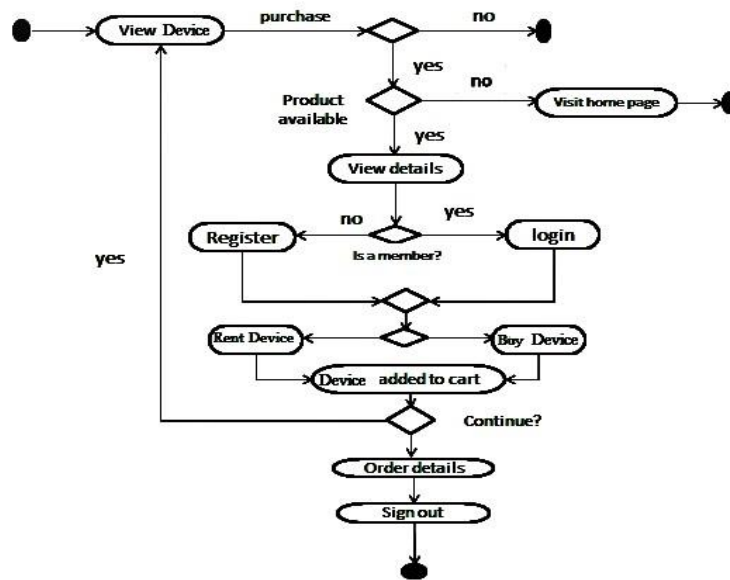


Figure 3.2: Activity Diagram of Secure BD

This the Activity Diagram of our system. If the consumer browses this web website online, see is the little or no the view products. If consumer needs to buy or lease protection motive our product on this web website online in the beginning register. If consumer is already registered, then login in our system.

3.5 E-R Diagram

This is the entity coupling diagram of our assignment site. Every square form represents every different desk/entity, each name at the square shape is represented column of the desk. Every related signed suggest courting connection each desk point out courting name.

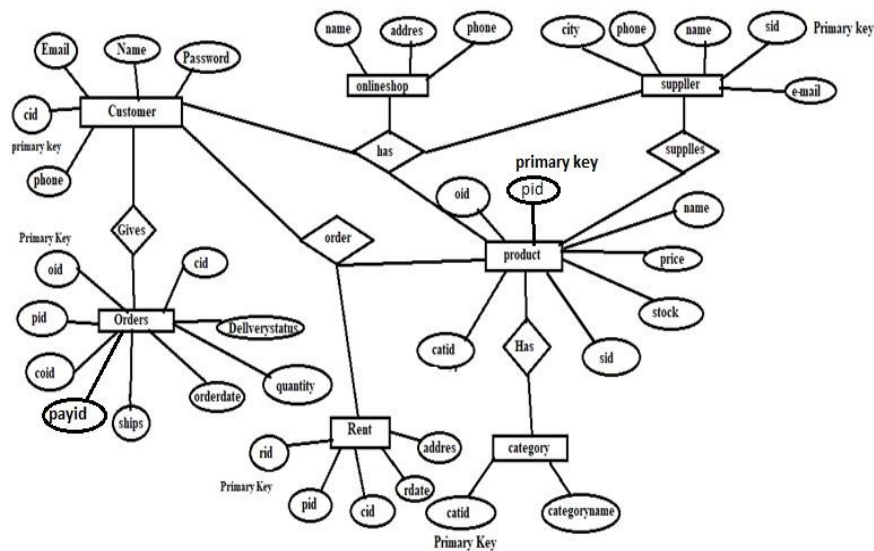


Figure 3.3: E-R Diagram of Secure BD

3.6 Representation of Components

DFDs simplest contain 4 symbols. They are:

- Process
- Data Object
- Data Store
- External entity

3.7 DFD for User registration

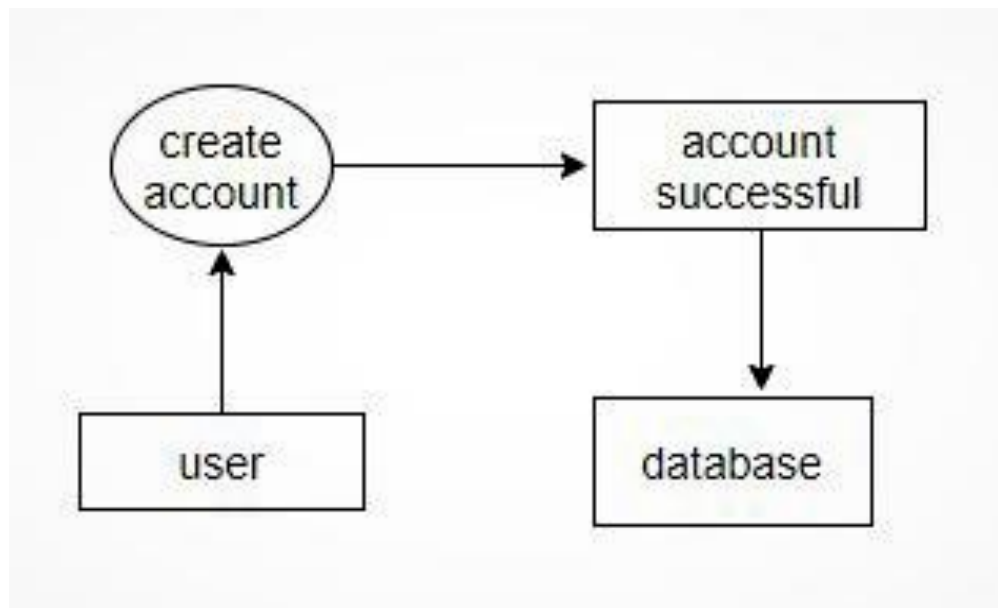


Figure 3.5: User registration

Here the information will be collected by the data entry operator from the person which includes the person private detail.

3.8 DFD for person view

Here the records concerning via way of means of person and assessment approximately the unique object products. All customers can study product view however handiest registered to customers can write reviews. All the records uploads and down load is saved on this database.

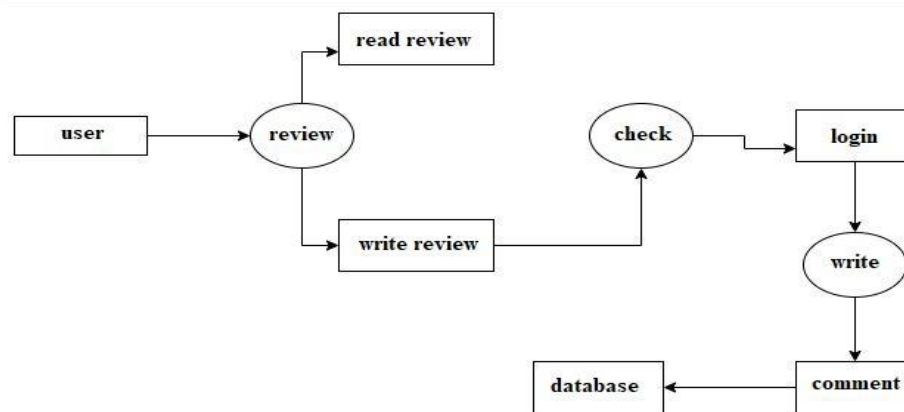


Figure 3.6: User view of Secure BD

3.10 Graphical User Interface

This bankruptcy will display the Graphical User Interface (GUI) of the device via screen-photographs and person courses that how will they function the device.

3.10.1 Home Page

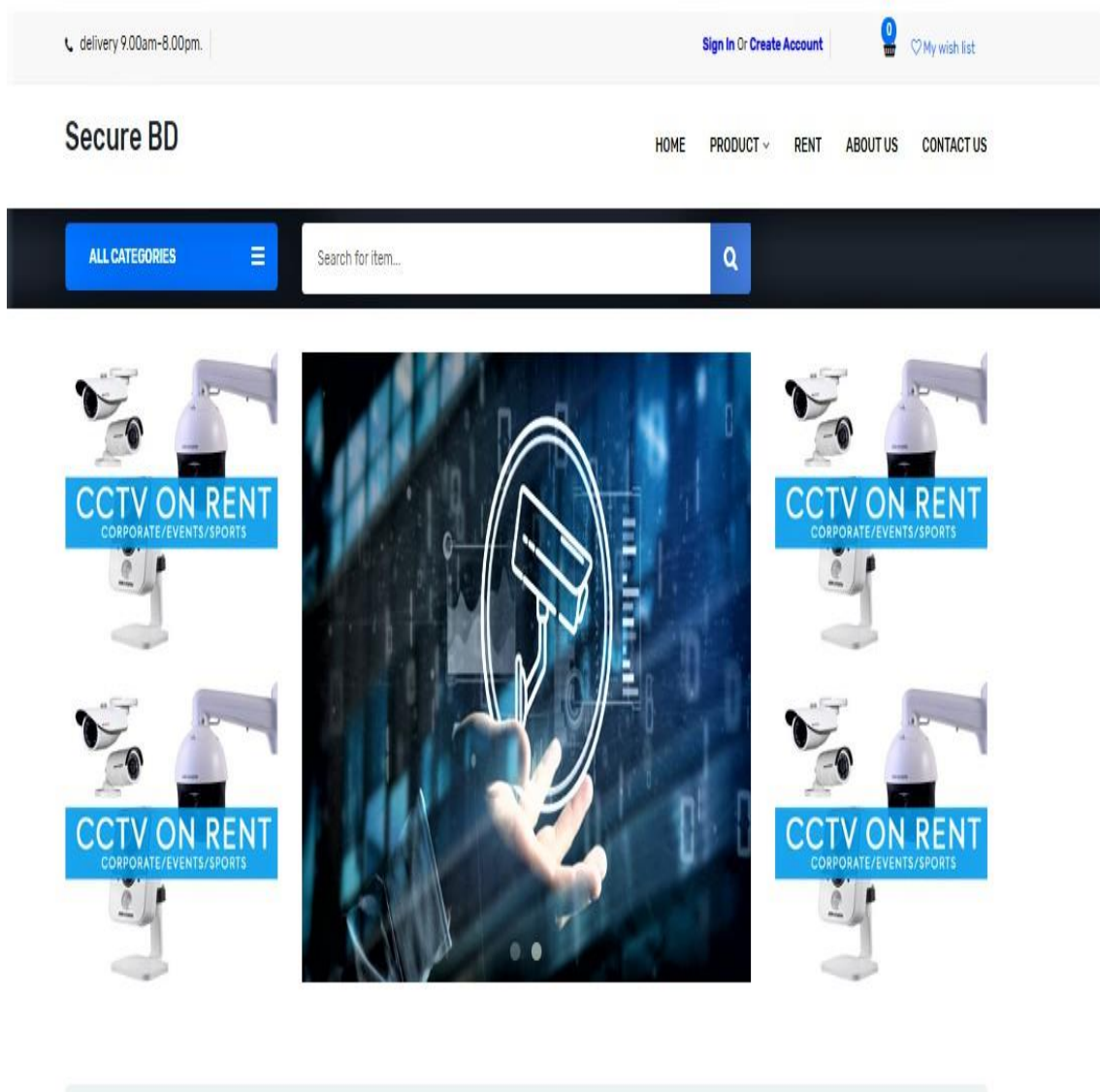
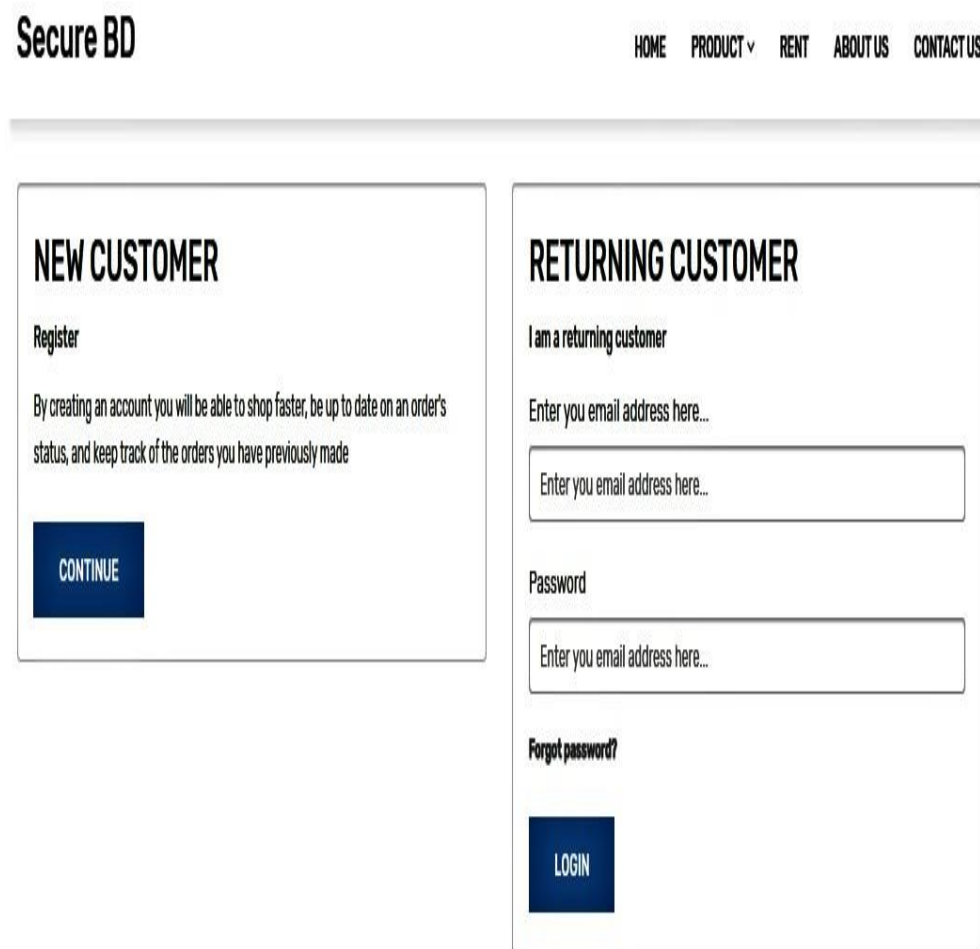


Figure 3.8: Home Page

3.10.33 Login

Login is a fixed of credentials used to authenticate a consumer. Most often, those include a username and password. However, a login can also additionally consist of different records details, together with a PIN, passcode security. If a consumer is registered then he can login at once to login, contact & input his e mail cope with and password if he needs he could be capable of password the forgot password.



The image shows a web page for 'Secure BD' with a navigation bar containing links: HOME, PRODUCT (with a dropdown arrow), RENT, ABOUT US, and CONTACT US. Below the navigation bar, there are two main sections for user login.

NEW CUSTOMER

Register

By creating an account you will be able to shop faster, be up to date on an order's status, and keep track of the orders you have previously made

CONTINUE

RETURNING CUSTOMER

I am a returning customer

Enter you email address here...

Enter you email address here...

Password

Enter you email address here...

Forgot password?

LOGIN

Figure 3.11: Login of Secure BD

3.11 Users Order

3.11.1 Rent list

Users can see what number of tool are ordered to the hire right here if the consumer he desires to hire more than one gadgets amassed that device is likewise right here.

The screenshot shows the 'Secure BD' website interface. At the top, there is a navigation bar with links: HOME, PRODUCT, RENT, ABOUT US, and CONTACT US. Below this is a search bar with the placeholder text 'Search for item...' and a magnifying glass icon. A blue button labeled 'ALL CATEGORIES' is also present. The main content area has a header with 'Home / Rent' and 'Rent your product from here'. Below this is a form with the following fields:

Product	Package	Start Date	End Date	Total Payment
CCTV	16 CCTV with DVR Every Day Rent: 1800 Taka	02/06/2020	02/11/2020	10800

Below the table, there is a link 'Terms and Condition For Rent' and a green 'Confirm' button.

Figure 3.12: Rent List of Secure BD

3.12 Admin

3.12.1 Admin home

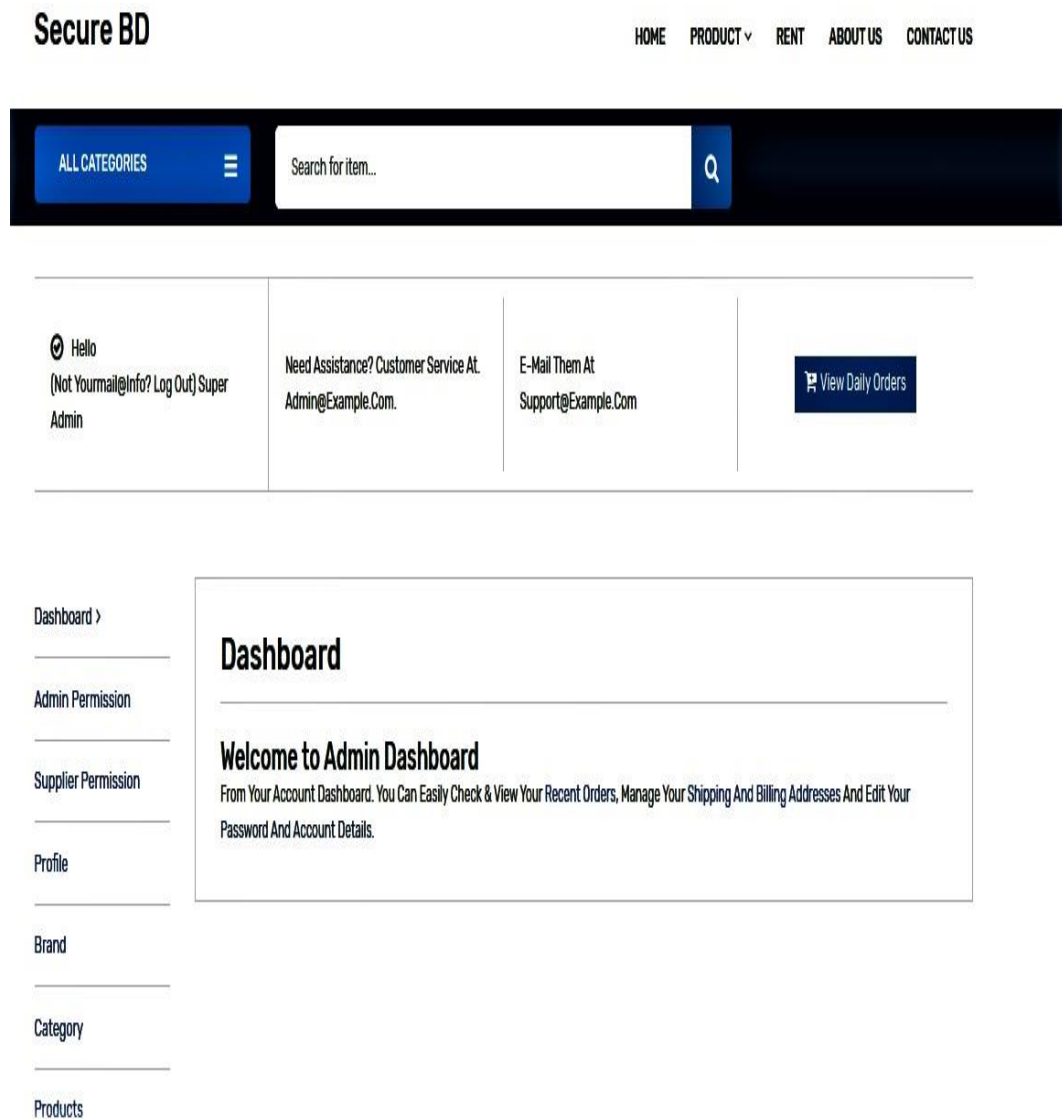


Figure 3.13: Admin Home of Secure BD

This is the admin home internet web page admin can see how many clients have used it access so our internet site on line can be very nice, there are various devices in which there are various time authorities persons, there are various classes.

3.12.2 Order list

Secure BD

HOMEPRODUCT ▾RENTABOUT USCONTACT US

Cart List

Image	Product	Unit Price	Quantity	Total	Remove
	Dahua HD Dome CCTV Camera	3500 BDT	1	3500	X
	02 MP Starlight IR PTZ HDCVI CAMERA	35000 BDT	1	35000	X

CONTINUE SHOPPING

CART TOTALS

SUBTOTAL

38500 BDT

TOTAL DISCOUNT

- 805 BDT

TOTAL

37695 BDT

Proceed to Checkout

Figure 3.14: Order List Secured BD

3.12.3 Devices management

Secure BD

HOMEPRODUCT ▾RENTABOUT USCONTACT US

Dashboard >

Admin Permission

Supplier Permission

Profile

Brand

Category

Products

Product Image

Client Feedback

Orders

Invoice

Menu List

Create

Search Team

Q

#	Name	Image	Slug	Actions
1	CCTV Camera		cctv	Edit Remove
2	Detector		detector	Edit Remove
3	Accessories		all-accessories	Edit Remove
4	Network Video Recoder		nvr	Edit Remove
5	Digital Video Recoder		dvr	Edit Remove

Figure 3.15: Device categories list of Secure BD

Dashboard >	SubCategory List Create				
Admin Permission					
Supplier Permission					
Profile					
Brand					
Category					
Products					
Product Image					
Client Feedback					
Orders					
Invoice					
	#	Name	Menu	Slug	Actions
	1	Hikvision	CCTV Camera	hik_vision	Edit Remove
	2	Dahua	CCTV Camera	dahua-camera-cctv	Edit Remove
	3	ZNV	CCTV Camera	znv	Edit Remove
	4	Honeywell	Detector	access	Edit Remove
	5	Zkteco	Detector	zkteco	Edit Remove
	6	Honeywell	CCTV Camera	cctv1	Edit Remove
	7	Honeywell	CCTV Camera	2mp	Edit Remove
	8	ZNV	CCTV Camera	1mp_cctve	Edit Remove

Figure 3.16: Device Brand list of Secure BD

The class is one of the predefined taxonomies our instable BD. It is used to the type and organization control content material into specific sections. An internet site publishing content material our public on quite a few subjects can divide their web page is many possibility and the purchaser happiness our makes use of web page. Client satisfied our internet site into sections the use of categories. If no class is specified

CHAPTER 4

Used Technologies and Test Plan

4.1 Introduction

In this bankruptcy we've got defined the technology we used our ecommerce web website online. We have defined our front-stop and back-stop technology and additionally describe to expand a take a look at and debugging the web website online. This is for the Design and Development of Security Equipment Market Place Secure bd. This report defines all of the processes quite simple great web website online and sports required to put together for checking out of the functionalities of the device that are laid out in Vision and task report.

4.2 Back-end Technologies

In the back-quit task improvement we've got use PHP, Laravel.

4.2.1 Hypertext Pre-Processor (PHP)

PHP is a widely-used open supply scripting language this is in particular proper improvement and HTML. PHP and laravel became at the start created via way of means of Rasmus Lerdorf in 1995[1].

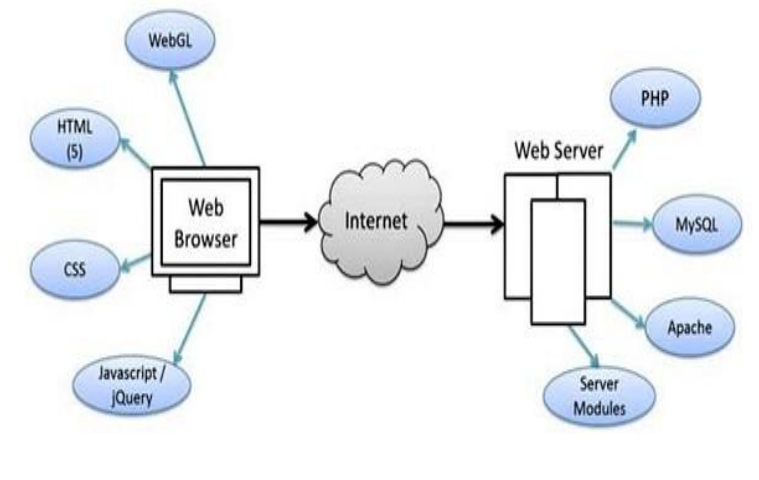


Figure 4.1: Project implementation procedure

4.3 What Can PHP Do?

- PHP can generate dynamic web page content material and site.
- PHP can create, open, read, increase, write, delete, and near documents at the server
- PHP can gather shape information & facts
- PHP can ship and get hold of cookies each day.
- PHP can add, delete, alter facts to your database
- PHP may be used to manipulate user-get admission to
- PHP can encrypt facts

With PHP you aren't restrained to output HTML[2]. You can output images, PDF documents, films or even Flash movies. You also can output any text, which includes XHTML and XML documents.

4.5.1 Laravel

Laravel is a loose open-supply PHP net framework, created via way of means of Taylor Otwell and meant for the improvement of net packages following the model–view–controller (MVC) architectural pattern [3]. The access factor for all requests get admission to to a Laravel applica- tion is the public/index.personal home page document. All requests are oblique keep hook up with this document via way of means of your net server (Apache/Nginx) configuration. The index.personal home page document doesn't comprise a lot code. it's far virtually a place to begin to the comprise of the framework. The index.personal home page document hundreds the Composer generated autoloader definition, after which retrieves an example of the Laravel software from bootstrap/app.personal home page script.

4.6 The HTTP Layer

In the HTTP layer plays the one-of-a-kind kind of operation whilst a request is going to the utility it is going to routes record; used to the controller then controller plays the enterprise common sense operation, the record is opened which we are able to display into the browser. In this deposit additionally international middleware, shape validation class, csrf safety etc[1].

4.8 Security

For keeping safety laravel offer a few capability including Auth scaffolding, Hashing function, authorization and password reset capability.

4.9 General topics

Here is a few general service offer laravel that is given bellow: Artisan console, broadcasting, cache, collections, mistakes and debugging to the logging, events, documents storage, helpers, mail, notifications, package, queues, scheduled task.

4.10 Database

Laravel makes interacting with databases extraordinarily easy throughout a whole lot of database backend the usage of both uncooked SQL, the at the start fluent question builder, and the Eloquent ORM. Laravel helps 4 databases: MySQL Database One of.

4.11 Testing

Laravel is built with testing in mind. In fact, support for testing with PHP Unit is covered out of the container and a phpunit.xml record is already setup on your utility. The framework additionally ships with handy helper techniques that permit us to expressively check our applications.

4.12 Front-stop Technologies

In the front-prevent undertaking development, we have got were given used the HTML, CSS, Bootstrap, JQuery, Ajax.

4.12.1 Hypertext Markup Language (HTML)

HTML is the standard markup language for documents designed to be displayed in a web browser. Web browsers achieve HTML documents file and from a web server or from close by storage and render the documents into multimedia internet pages. HTML to constructs, photographs and exceptional devices which includes eleven though interactive office work may be embedded into the rendered page. Our net internet site on-line may be very with out issues and tags along side image and output input without delay introduce content material cloth into the page.[4] Browsers do now not our display and show all display be a part of organization the HTML tags.

4.12.2 Cascading Style Sheets (CSS)

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language like HTML. CSS is a cornerstone generation of the World Wide Web, alongside HTML and JavaScript. CSS is designed to allow the separation of presentation and content material material, along side layout, colors, view, and fonts[5].

4.12.3 Bootstrap

Bootstrap is a free and open-deliver CSS framework directed at responsive, mobile-first front-forestall internet development[6]. It consists of CSS and JavaScript based totally completely designs templates for typography, paperwork, buttons, navigations, and specific interface components.

4.12.4 JQuery

JQuery is a fast, small, and feature-wealthy JavaScript library[7]. It makes such things as HTML documents traversal and manipulations, occasion handlings, animations, and Ajax masses much less hard with an easy to use API that works during a multitude cause of browsers.

4.12.5 Ajax

An Ajax ("Asynchronous JavaScript and XML") request is every now and then referred to as an XHR request ("Xml Http Request"), it's the decision most well-known browsers supply the object used to deliver an Ajax request,[8] because of the reality at least to start with Ajax calls involved to the sending and receiving of XML but now it's truly as commonplace area to deliver/attain JSON data.

4.13 Featured to be tested

The following listing describes the capabilities to be tested:

- User
- Registration
- Login
- Add to Cart
- Edit Cart

Admin

- Create and Delete product from Category
- Create and Delete a Category
- Manage & Orders
- Manage team

4.14 Approach

This phase describes the general technique to the u . s . a . and himself of the checking out which guarantees that the every other's function and the mixture existence of the in addition are to the competently tested [9]. The predominant hassle obligations such a lot of human beings like which are used are Unit Testing's Unit checking out is a way of checking out that verifies gadgets of his supply code are running nicely rights now. The accurate Load Testing Loads checking out is creating processing the procedure of making call for on our gadget and or tool and measuring.

The screenshot displays the 'Secure BD' web application interface. The top navigation bar includes links for HOME, PRODUCT (with a dropdown arrow), RENT, ABOUT US, and CONTACT US. The left sidebar contains a list of navigation items: Dashboard (with a right arrow), Admin Permission, Supplier Permission, Profile, Brand, Category, Products, Product Image, Client Feedback, Orders, and Invoice. The main content area is titled 'Admin List' and features a 'Create' button in the top right corner. Below the title is a table with the following data:

#	Name	Email	Contact	Permission	
1	super admin	superadmin@gmail.com	3453453453		View Profile Remove
2	md admin	admin@gmail.com	34234234234234	editor	View Profile Remove

Figure 4.3: Admin List of Secure BD

CHAPTER 5

Conclusion and Future Work

The purposed of the internet site is to create Design and Development of Security reason Equipment massive Market Place that lets in customers to look and buy a product on line store primarily based totally on class and brand. So any character purchase and sale merchandise our internet site. We of the consumer and the consumer can discover all to be had inventory merchandise gadgets and advertising merchandise to buy with none time and strength waste. Our to be had stock space. If the internet site desires to increase then we have to need to paintings any time purchase little at the database.

5.1 Limitations of the machine

We have attempted our degree excellent to make our machine wonderful taste and consumer pleasant through the use of the current technology System purchase and buy common sense a few minor purposeful software Design and Development of Security Equipment and Market Place in Bangladesh. Our business enterprise is the excellent web page in world.

- We need to used Ajax in our machine to be able to display the machine after loading.
- In this machine no transaction is added, so customers cannot display any transaction details.

5.2 Prospective destiny development

Our machine web sites evolved primarily based totally on modern findings, call for of consumer's delight and centers each customers. Our web page destiny massive area development. In my machine we need to use the current net technology use our carrier to make us to our machine fast, handy technology and green technology. So the chosen our internet site for all the employees lifestyles mentioned. But in destiny those deliberate functionalities industrial and greater development may be feasible to pursue excellent product.

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