



An Undergraduate Internship/Project on
SobKisu.com (A Web Based E-Commerce System)

By

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Attestation

This is to certify that the report titled “Web Design & Development in Angular” was completed by Md Hasan Aun Nur (1610030) submitted in partial fulfillment of the requirement for the Degree of Computer Science from Independent University, Bangladesh (IUB). It has been completed under the guidance of Mohammad Noor Nabi (Internal Supervisor). I also certify that all my work is original and has not been submitted earlier to this university or any other institution. All the sources of information used in this Project Report has been duly acknowledged in it.

Acknowledgement

This Project titled “SobKisu (A web based e-commerce system)”, submitted by Md. Hasan Aun Nur to the Department of Computer Engineering, Independent University Bangladesh, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Engineering (BSc) and approved as to its style and contents.

First we express our heartiest thanks and gratefulness to almighty ALLAH for His divine blessing makes us possible to complete the final year project/internship successfully.

I am really grateful and wish my profound and indebtedness to my honorable supervisor Mohammad Noor Nabi, Internship Supervisor & Senior Lecturer, Independent University, Bangladesh. Who has given me suggestions regarding the research that I conducted and writing this report. Her endless patience, scholarly guidance, continual encouragement, constant and energetic supervision, constructive criticism, valuable advice, reading many inferior drafts and correcting them at all stage have made it possible to complete this project.

I am also thankful to Telnet Communication Ltd for providing me the opportunity to work in the real world and helping me with important materials and supporting materials which were vital for my internship.

I would like to thank my favorite Independent University for the opportunity to receive this internship, which helps me build a future career. At last, I would like to pay my deepest respects to the pioneers Independent University and my dear parents from the bottom of my heart. I hope that with their prayers, my path will be smooth.

Letter of Transmittal

18th May,2021

Mohammad Noor Nabi

Internship Supervisor & Senior Lecturer

Department of Computer Science and Engineering

School of Engineering Technology and Sciences

Independent University, Bangladesh

Subject: Internship report on “SobKisu.com” for Telnet Communication Limited.

Dear Sir,

It is my pleasure to submit to you my internship report on “SobKisu (A web based e-commerce system)” for Telnet Communication Limited. The purpose of this report was to fulfill the requirements of the Bachelor’s degree in Computer Engineering and also to gain an insight into how the organizations are dealing with the ongoing COVID-19 pandemic.

I tried to give my best effort to make this report successful. It has been an instructive and knowledgeable experience for me to work along with the development team in Telnet Communication Limited. I would be really happy if the report that I have created is able to serve its purpose I have tried my best to complete the report appropriately as much as possible.

Thank you.

Yours sincerely,

Md Hasan Aun Nur

ID:1610030

Abstract

In this age of science, we cannot imagine a moment without science. Science has brought our whole world under our control. As a result of this advanced journey of science, we can earn money from anywhere, at home. Due to the ubiquitous use of ICT, it is not possible to avoid ICT in either joining an organization or creating an organization yourself. So I hired myself as an intern at Web Developer at Telnet Communication Ltd. The demand for specialized work in programming web site building, computer security is increasing tremendously. Without skills in these areas, it will be very difficult to get a job in the future.

In this digital age, people depended on online-based marketing system day by day. “ShobKisu” is mainly web-based e-commerce system. This system will introduce e-commerce user with the next generation e-commerce technology. This website is the complete online shopping arena, where both the buyer and the seller reach their goal in the pursuit of getting a top-notch business. To develop this web application, I need certain types of programming language, some of them are used to develop frontend and some for the backend. For example, HTML5, CSS3, JavaScript, Bootstrap framework, and so on are used for frontend design and the backend development and dynamic movement language like PHP, MYSQL and so forth.

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Chapter 1

1 Introduction

1.1 Overview / Background of the work

Nowadays E-commerce is the most popular and fast-growing online marketing platform for all kinds of online business. Day by day more business houses become dependents on e-commerce business for e-commerce popularity. The websites also become more and more functional day by day for the e-commerce business. Now peoples become too dependent on online marketing where they can view the catalog of the products and add to their shopping list. This matter is become very popular because of, at a time people view too many products in a category and able to find their favorite products for add to their carts. Web design and development is one of the best choices for our carrier and upcoming trend. Today's market situation I want to build up my carrier and I love to work with it. SobKisu Website was a good choice to build up my practical knowledge and skill. I have completed many web projects using PHP, My SQL, HTML, CSS, java script and Bootstrap to build up my all projects. Now, I am confident that I am ready to meet any challenges and having an excellent carrier. I used PHP and My SQL for my background project because most websites in the world are built by PHP. PHP has the most use in the modern web programming world. PHP is very easy to use. Database access, manipulation, system administration, etc. are done through PHP. The advantage of PHP is that it is completely free and we can build any website with it

1.2 Objectives

“ShobKisu” is mainly web-based e-commerce system. This system will introduce e-commerce user with the next generation e-commerce technology .This website is the complete online shopping arena, where both the buyer and the seller reach their goal in the pursuit of getting a top-notch business. Through the system user can view all types of products, Add product item into his/her own shopping cart, search product, update information, edit information, buy the product in quick time. The specific objectives of this report are:

- User friendly interface
- Fast access to database
- Mobile friendly responsive website
- System that can satisfy the user
- Manage a huge amount of customer information
- System that can manage a huge amount of product orders
- Make a better connection between the customer and the server.
- It can reduce customer manual works
- Search facility
- Look and Feel Environment

1.3 Scopes

There is a huge demand for web applications right now. This type of application is as simple as it is challenging because we have to think about what kind of website customers want based on how the website will be displayed. The groups of users had been identified to use the system are customers and administrators.

- **Administrator:** The administrator has all the rights to access the system. He is the one who has all rights to view the members and product details, modify those details. The admin will manage the entire system and control the site. He can add various products based on the category and brand. He can also set the available quantity of a product and its reasonable price. Also he can also set discount in various occasions. Admin can also view the details of a member. The admin have the power to generate the scratch card so that users can also use the recharge card to buy various products.
- **Customer:** The user can register in to the system by using his/her personal information. Then the user can log in to the system by using his specific email and password. User can view the products and order the products according to their own needs. He can view his profile and update his details. He can update his personal information by logging into the system. User can find various products by using search option easily. Update his details. He can update his personal information by logging into the system. User can find various products by using search option easily.

1.4 About Company

1.4.1 Introduction

Telnet Communication Limited is one of the pioneers of Online business advancement and Programming Improvement Organization in Bangladesh, In the event that you have the Dedication and Want to dispatch your Web-based business site, we have the experience and mastery to make it a triumph! what's more, with More than 5 years of involvement with 100+ Internet business improvement around the world, we realize how to plan and construct a shocking on the web site for your business. You need a simple to deal with a framework that doesn't expect you to be a specialized master, and in particular, you need a solid and quick site that is there when your clients need it. An expert, simple to utilize and well-kept up Web-based business site is the fundamental key to making an effective online business. Our Web-based business shopping basket programming makes it simple to deal with your site. More than 5 years of Web-based business experience and many years of business experience implies we comprehend your business or organization needs, we comprehend that you have to work to a financial limit and due date, and we realize how to get results on the web. Internet business is an astounding path for retailers to improve their primary concern and advance their image.

1.4.2 Product and Market Situation

Products of Telnet Communication Limited:

DOMAIN

- Domain Registration
- Domain Renew
- Domain Transfer
- Search Your Domain
- Domain Price List
- Reseller Domain
- BD .Gov.BD Country LTD

E-COMMERCE DEVELOPMENT

- Ecommerce Development
- Theme Development
- Extension Development
- Speed Optimization
- Bug Resolving Services
- Woocommerce Development
-

WEB DESIGN

- Dynamic Web Solutions
- Custom Web Design
- Web Application
- Web site Re-Design
- Website Maintenance
- Our Design Process

Chapter 2

2 Literature Review

2.1 Relationship with Undergraduate Studies

CSE.309-Web Application and Internet

While working with the frontend design this course was in help. From this course I have learned basic HTML, CSS, Bootstrap, PHP, JavaScript, Even though we were taught raw PHP but yet it was not difficult to use a framework because of the knowledge that I have gained from this course. This course was a huge help throughout the project as I have also learned the use of colors and features.

CSE-303 Database Management

A huge part of the project is related to the back-end. The course has given me overall knowledge with SQL. Starting from Connecting to PHP My Admin to writing Queries .This course has given me the knowledge with the database which helped me throughout the project. This course made it easier for me to develop the project with all the important queries like joining two tables using the foreign key. Providing the primary key to a table etc was known to me.

CSE-213 Object-Oriented Programming

This course helped in working with objects, classes, inheritance, function charming etc. This course introduced me to Java which helped me throughout the project.

CSE-211 Algorithms

Algorithms were the building blocks of understanding how a project data can be huddled.

2.2 Related Works

2.2.1 Introduction:

E-commerce websites or stores are undoubtedly the future of our shopping. This rise in online shopping sites is the reason why people are moving towards online shopping rather than shops. People are looking for more comfortable options to do their shopping and online shopping is providing just that. With online shopping, users get to buy whatever they want from the comfort of their home. There are two types of online Shopping E-commerce Market

2.2.2 Global Market:

Today, we have some of the best online shopping sites all around the world. The different online websites offer products of a different category such as clothes, electronics, optical, footwear, etc. Go online, and you will see so many different e-commerce websites catering to your different needs. However, with so many options you get overwhelmed about which site to go for. Additionally, there is always the issue of credibility.

Here are some of Shopping E-Commerce websites in the world that are ruling the e-commerce platform.

- **Amazon**

Amazon is considered the world's top e-commerce platform hence earns a spot in the top 10 e-commerce websites in the world. People love shopping on this website mainly because of the reason that the interface is simple, easy checkout, different payment methods, and have great discounts and offers.

Other reasons that attract people from all across the world is that the site offers an array of product at affordable rates, fast delivery, and versatile collection.

- **eBay**

eBay is another amazing e-commerce website. You cannot just buy different products here; you also get to sell your products to the buyers. You can make your shopping store with the help of eBay store web application and add your content, along with images and description and you are all set to start. This website attracts both buyers as well as sellers from all around the world. On special occasions such as Black Friday, Father's Day, Christmas Day, etc., they offer some great deals on various categories.

- **Alibaba**

Alibaba.com is one of the top 10 e-commerce websites in the world that is primarily used for trading for buyers and sellers around the world. It is especially popular in Asia, and the concept behind this website is to generate an easy connection between the buyers and suppliers. It offers the suppliers a platform to sell their products at affordable rates. Today there are over two million suppliers registered on this website. In Alibaba.com, you also get to compare your products, easy and fast checkout, secure payment gateway, fast service, etc.

2.2.3 Local Market:

With the recent advancements in the IT sector, Bangladesh is gradually evolving towards a digital-based future. One of the primary components of such a future is having automated systems for fulfilling day to day needs of the people and reducing human effort. Ecommerce online shopping websites have received a huge response from Bangladeshi users over the years. These sites have made the shopping experience into a smooth process, allowing people to buy their desired products just by a few clicks. Today we have around 50+ reputed e-commerce websites to choose from! This competition resulted in a rise in e commerce website design prices in Bangladesh. At the same time, with increasing demands, the shops are struggling to fulfill the needs of the rising customers.

Popular E-Commerce Shopping websites in Bangladesh include:

- **Daraz**

Daraz.com is an international online fashion shopping platform which offers international products to the consumers. It started its journey in Bangladesh in March 2015 and the sister concerned company of Rocket Internet. It has a massive collection of international and branded collection. It also gives free return opportunity in terms of purchasing products. Sometimes it announces some big deals for customers. It gives the opportunity for various payment options such as debit/credit cards, cash on delivery, bkaash etc. to their buyers. Daraz.com.bd offers a wide range of products to its customers such as home appliances, electronics, decor, books, fashion & beauty, health, watches, toys, sports, etc. It is guaranteed by Daraz that all their products are 100% authentic and come with a warranty.

- **AjkerDeal**

AjkerDeal.com is the marketplace where buyers can easily find their daily necessary things. It offers the daily necessary deals at a cheap cost to their buyers. It sells fashion and beauty accessories and electronics appliances along with other households' daily necessary things. Besides all types of payment method, it gives the EMI opportunity. It is the sister company of bdjobs– the largest job site in Bangladesh and ran as a business from 2011, 19th November.

- **Evaly**

Another top E-Commerce website name in our country is Evaly. This E-Commerce platform is capable enough of providing all kinds of goods & products to every customer doorstep. Customers can easily access this market place within their fingertips by using their smartphones or computers. It is such a website where customers can find all kinds of products according to their needs. From pencil to cell phones to car to lands, everything is available on this E-Commerce website. This website is built by a team of sharp-minded developers who are dedicated to ensuring their website provides the most secure E-Commerce platform for their customers. The diversity of product range and high-quality security is what makes them different from other websites.

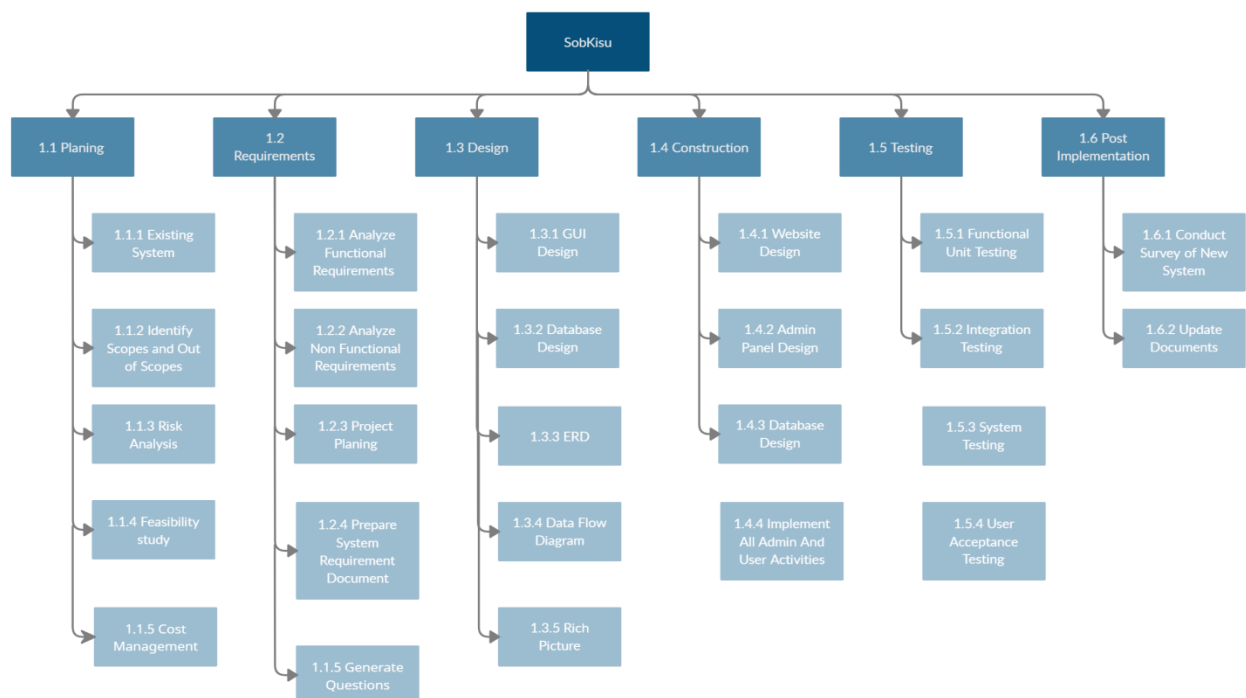
Chapter 3

Project Management & Financing

3.1 Work Breakdown Structure (WBS)

Work breakdown structure (WBS) in project management is a method for completing a complex, multi-step project. It's a way to divide and conquer large projects to get things done faster and more efficiently. The goal of a WBS is to make a large project more manageable. Breaking it down into smaller chunks means work can be done simultaneously by different team members, leading to better team productivity and easier project management. It is a helpful diagram for project managers because it allows them to work backwards from the final deliverable of a project and identify all the activities needed to achieve a successful project.

Figure: 3.1 Work Breakdown Structure (WBS)



3.2 Process/Activity wise Time Distribution

The estimated time required to end a project successfully defines process wise time distribution. This helps the developers create a mind map as to how efficiently they need to work in order to meet the deadlines. Time distribution is greatly needed to complete any project. The timeline designed below in a Gantt chart shows the developers. What processes are completed. Which are behind schedule and what is yet to be completed.

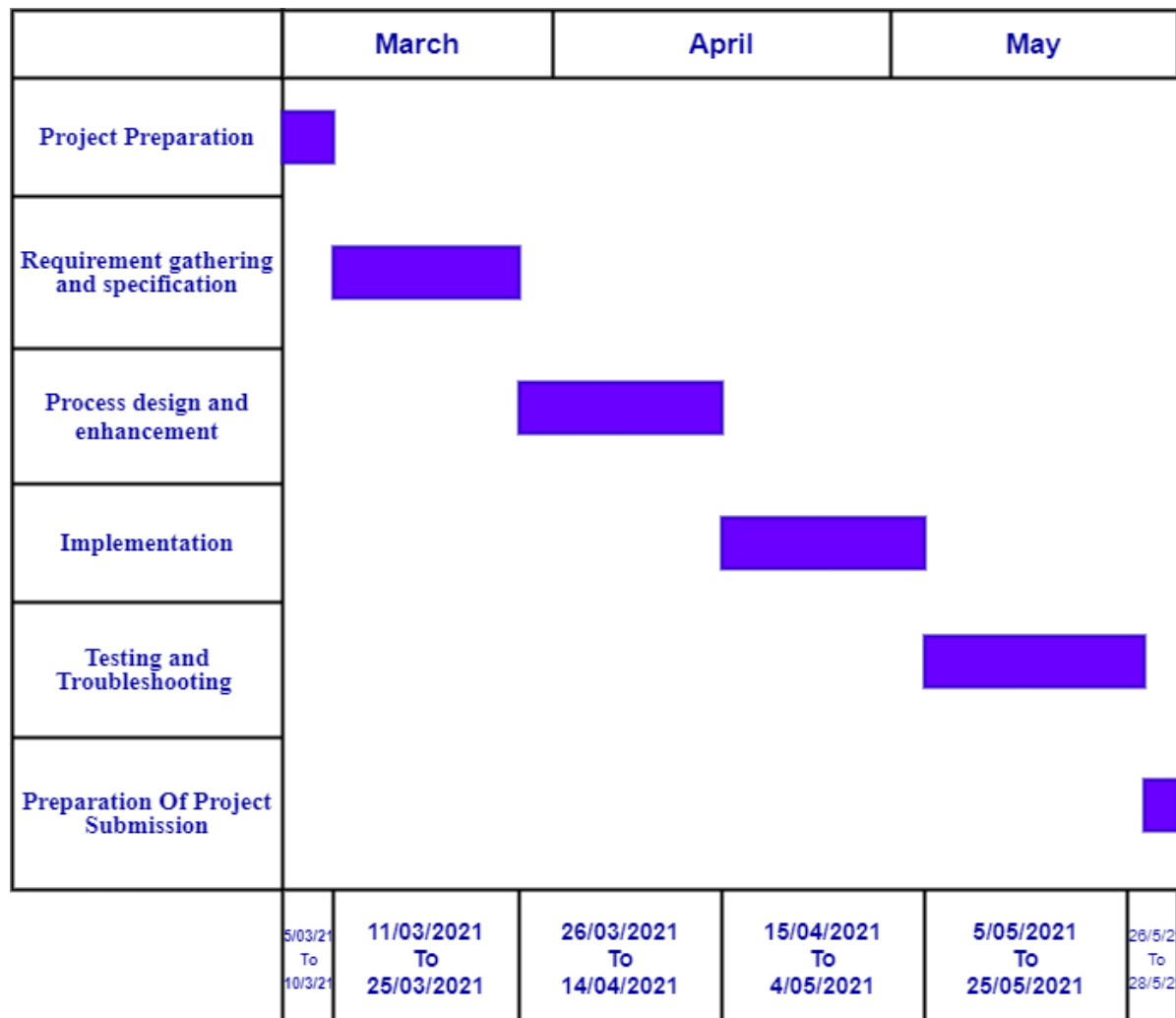
Table 3.2 : Project Schedule

STEPS	FROM	TO	DURATION
Project Preparation	5 th March	10 th March	6 Days
Requirement gathering and specification	11 th March	25 th March	15 Days
Process design and enhancement	26 th March	14 th April	20 Days
Implementation	15 th April	4 th May	20 Days
Testing and Troubleshooting	5 th May	25 th May	21 Days
Preparation Of Project Submission	26 th May	28 th May	02 Days

3.3 Gantt Chart

Gantt charts are useful for planning and scheduling projects. They help you assess how long a project should take, determine the resources needed, and plan the order in which you'll complete tasks. They're also helpful for managing the dependencies between tasks. It is a graphical depiction of a project schedule. It's is a type of bar chart that shows the start and finish dates of several elements of a project that include resources, milestones, tasks, and dependencies.

Figure: 3.3 Gantt Chart



Gantt Chart For SobKisu.com

3.4 Process/Activity wise Resource Allocation

The model that is basically being followed is the Scrum Methodology, which is a part of the Agile movement. First of all, the feasibility study is done. Once that part is over the requirement analysis and project planning begins. If the system exists one and modification and addition of new module is needed, analysis of the present system can be used as a basic model. The design starts after the requirement analysis is complete and the coding begins after the design is complete. Once the programming is completed, the testing is done. Building a site, such as structure a house, requires arranging and thought with the end goal for it to be a fruitful site. There are not many procedures will give you a manual to find out about our work process. I would be glad to assist you with each progression all the while.

Preparation Phase

- Gather client content
- Register domain
- Deploy client extranet

Planning Phase

- Write project plan
- Create site blueprint
- Establish project timeline

Graphic Design Phase

- Find stock images
- Create site design mockup
- Post mockup on extranet for client review
- Revise mockup based on client's input
- Obtain final approval on design

Build Phase

- Review client content
- Slice mockup into images
- Create master HTML template page
- Create CSS stylesheet
- Test and tweak page in supported browsers
- Create additional pages from master HTML template and add client content to each
- Build and test contact form

Review Phase

- Present a site for customer audit
- Amend as required
- Get last customer endorsement

Pre-Production

- Register area
- Make (physical) work envelope
- Enter work into Creation spreadsheet
- Spot organizer in the line to anticipate generation

Preparation

- Pick a format
- Set-up neighborhood envelope and venture records
- Discover stock pictures, if fundamental; or download customer documents from

Album

- Make facilitating and FTP account
- Submit the admission structure to copywriting office
- Dole out the undertaking to an in-house or outside colleague

Production

- Creation
- Acquire site duplicate from copywriting office
- Make pages from the format and add customer substance to each
- Implant map, if fitting, and client video
- Set up and test contact structure

Approval

- Contact customer for survey
- Submit corrections to planner
- Contact customer for definite endorsement

Delivery and SEO

- Transfer to your site
- Conveyance and appreciate.
- Extract better web crawler advancement.

3.5 Estimated Costing

This is a project of our client and in our project financing we estimated a minimal cost as all the project phase based. For developing an Angular website with proper functionality and a clean interface the cost is very minimal. Here given the chart of project Costing and Finance by work process.

Table: 3.5 Estimated Costing

Requirements	Amount (BDT)
Transportation cost(3month)	11000
Electricity Bill (3month)	4000
Internet Bill	5400
Mobile Bill	3500
MONITOR	15000
Mouse And Keyboard	3200
Extra	2500

Chapter 4

Methodology

4.1 Introduction

A software development methodology is the procedure of a software development work into distinct phases containing activities with the intent of better planning and management. It is also known as development life cycle. There are various types of software development methodologies. Such as-

- Agile
- Waterfall
- Prototyping
- Iterative and incremental development
- Spiral development
- Rapid application development
- Dynamic system development model
- Extreme programming

For this project, we have decided to select the agile methodology. Agile methodology is best for modify the process to fit in our needs. Our project is developed for the Ecommerce Online Shopping.

4.2 What is Agile Methodology?

Agile methodologies are approaches to product development that are aligned with the values and principles described in the Agile Manifesto for software development. Agile methodologies aim to deliver the right product, with incremental and frequent delivery of small chunks of functionality, through small cross-functional self-organizing teams, enabling frequent customer feedback and course correction as needed.

Agile has become the go-to framework for helping app startups and development agencies maintain a focus on delivering a quality app — quickly and efficiently. Agile maximizes value throughout the development process and significantly reduces the overall risk of any given project.

In doing so, Agile aims to right the challenges faced by the traditional “waterfall” approaches of delivering large products in long periods of time, during which customer requirements frequently changed, resulting in the wrong products being delivered.

There are 6 phases available in Agile XP method, and those are explained as follows:

Planning

- Identification of stakeholders and sponsors
- Infrastructure Requirements
- Security related information and gathering

Analysis

- Capturing of Stories in Parking lot
- Prioritize stories in Parking lot
- Scrubbing of stories for estimation

Design

- Break down of tasks
- Test Scenario preparation for each task
- Regression Automation Framework
- Execution

Coding

- Unit Testing
- Execution of Manual test scenarios
- Defect Report generation
- Conversion of Manual to Automation regression test cases

Wrapping

- Small Releases
- Regression Testing
- Demos and reviews

Training

- Production Launch
- SLA Guarantee assurance
- Review SOA strategy
- Production Support

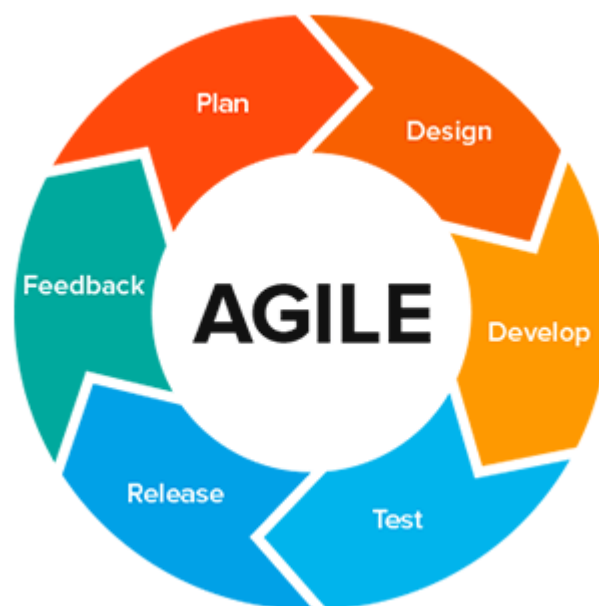
4.3 Why do I use agile methodology?

Well executed Agile software development methodology helps teams significantly improve the quality of their software at each release. Not only that, it allows teams to adapt to change quickly. The Agile process

consists of short, time-boxed iterations known as sprints. Each sprint results in a working product.

The Agile software development methodology centers around time-boxed project cycles known as sprints. A sprint is a short period, usually two weeks, during which the team works on a set number of features called “user stories.” These stories are items that the team can deliver in two weeks. As such, the sprint consists of a significantly smaller number of features than a waterfall project. Limiting the features in this manner makes for a more manageable product development and release cycle.

Figure: 4.3 Agile Methodology Structure



Chapter 5

Body of The Project

5.1 Work Description

Nowadays E-commerce is the most popular and fast-growing online marketing platform for all kinds of online business. Day by day more business houses become dependents on e-commerce business for e-commerce popularity. The websites also become more and more functional day by day for the e-commerce business. Now peoples become too dependent on online marketing where they can view the catalog of the products and add to their shopping list. This matter is become very popular because of, at a time people view too many products in a category and able to find their favorite products for add to their carts. Web design and development is one of the best choices for our carrier and upcoming trend. Today's market situation I want to build up my carrier and I love to work with it. SobKisu Website was a good choice to build up my practical knowledge and skill Online shopping is just like a retail store shopping that we do by going to the market, but it is done through the internet. Online shopping has made shopping painless and added more fun. Online stores offer product description, pictures, comparisons, price and much more. Few examples of these are Amazon.com, ebay.com, framt.com and the benefits of online shopping is that by having direct access to consumer, the online stores can offer products that cater to the needs of consumer, cookies can be used for tracking the customer

selection over the internet or what is of their interest when they visit the site again. Online shopping makes use of digital technology for managing the flow of information, products, and payment between consumer, site owners and suppliers. Shopping cart is one of the important facility provided in online shopping, this lets customer to browse different goods and services and once they select an item to purchase they can place the item in shopping cart, and continue browsing till the final selection. Customers can even remove the items from shopping cart that were selected earlier before they place the final order. It reminds us of shopping basket that we carry in departmental store. . I have completed many web projects using PHP, My SQL, HTML, CSS, java script and Bootstrap to build up my all projects. Now, I am confident that I am ready to meet any challenges and having an excellent carrier. I used PHP and My SQL for my background project because most websites in the world are built by PHP. PHP has the most use in the modern web programming world. PHP is very easy to use. Database access, manipulation, system administration, etc. are done through PHP. The advantage of PHP is that it is completely free and we can build any website with it

Purchasing and selling products and services over the internet without the need of going physically to the market is what online shopping all about.

5.2 System Analysis

System Analysis is a process by which we attribute process or goals to a human activity, determine how well those purpose are being achieved and specify the requirements of the various tools and techniques that are to be used within the system if the system performances are to be achieved. The analysis model is a concise, precise abstraction of what the desired system must do, and not how it will be done after the study of the existing system is completed. This basically includes system study and the requirement analysis .Interacting with the clients regarding their requirements and expectations from the system dose requirement analysis.

The Steps Which Are Essential For System Analysis, Are:

- Research and define Assential components.
- Analyze current processes and identify gaps.
- Interview users, Trainee, Trainers and other concerned personnel readings essential components and current processes.
- Write requirements document.
- Define standards for standards, Policies and procedures.
- Review draft requirements document with users, Trainee, Trainers and other concerned personnel.
- Update and expand project plan.

5.2.1 Six Element Analysis

Table: 5.2.1 Six Element Analysis

Process	Human	Non Computing Hardware	Computing Hardware	Software	Database	Network & Communication
Visit Website	All Users	N/A	Pc, Laptop, Smartphone, & tabs	All Browser	MYSQL	WAN
Register	All Users	N/A	Pc, Laptop, Smartphone, & tabs	All Browser	MYSQL	WAN
Login	All Users	N/A	Pc, Laptop, Smartphone, & tabs	All Browser	MYSQL	WAN
Admin Panel	User who have access	N/A	Pc, Laptop, Smartphone, & tabs	All Browser	MYSQL	WAN
View Product	All Users	N/A	Pc, Laptop, Smartphone, & tabs	All Browser	MYSQL	WAN
Search Product	All Users	N/A	Pc, Laptop, Smartphone, & tabs	All Browser	MYSQL	WAN
View Company Details	All Users	N/A	Pc, Laptop, Smartphone, & tabs	All Browser	MYSQL	WAN
Add To Cart Shopping	Registered User Only	N/A	Pc, Laptop, Smartphone, & tabs	All Browser	MYSQL	WAN
Ordered Product for buy	Registered User Only	N/A	Pc, Laptop, Smartphone, & tabs	All Browser	MYSQL	WAN
Manage Product	Admin Only	N/A	Pc, Laptop, Smartphone, & tabs	All Browser	MYSQL	WAN

Manage Category	Admin Only	N/A	Pc, Laptop, Smartphone, & tabs	All Browser	MYSQL	WAN
Manage Brand	Admin Only	N/A	Pc, Laptop, Smartphone, & tabs	All Browser	MYSQL	WAN
Manage Order	Admin Only	N/A	Pc, Laptop, Smartphone, & tabs	All Browser	MYSQL	WAN
View Profile	Registered User Only	N/A	Pc, Laptop, Smartphone, & tabs	All Browser	MYSQL	WAN
Update Profile	Registered User Only	N/A	Pc, Laptop, Smartphone, & tabs	All Browser	MYSQL	WAN
Change Password	Registered User Only	N/A	Pc, Laptop, Smartphone, & tabs	All Browser	MYSQL	WAN
View My Cart	Registered User Only	N/A	Pc, Laptop, Smartphone, & tabs	All Browser	MYSQL	WAN
Edit Require Product Quantity	Registered User Only	N/A	Pc, Laptop, Smartphone, & tabs	All Browser	MYSQL	WAN

5.2.2 Feasibility Analysis

Feasibility study is the process of determination of whether or not a project is worth doing. Feasibility studies are undertaken within tight time constraints and normally culminate in a written and oral feasibility report. I have taken two weeks in feasibility study with my co-developer. The contents and recommendations of this feasibility study helped us as a sound basis for deciding how to proceed the project. It helped in taking decisions such as which software to use, hardware combinations, etc.

- Technical Feasibility
- Economical Feasibility
- Operational Feasibility

5.2.2.1 Technical Feasibility:

Technical feasibility determines whether the work for the project can be done with the existing equipment, software technology and available personnel. Technical feasibility is concerned with specifying equipment and software that will satisfy the user requirement. This project is feasible on technical remarks also, as the proposed system is more beneficiary in terms of having a sound proof system with new technical components installed on the system. The proposed system can run on any machines supporting Windows and Internet services and works on the best software and hardware that had been used while designing the system so it would be feasible in all technical terms of feasibility.

5.2.2.2 Economical Feasibility:

Economical feasibility determines whether there are sufficient benefits in creating to make the cost acceptable, or is the cost of the system too high. As this signifies cost benefit analysis and savings. On the behalf of the cost-benefit analysis, the proposed systemic feasible and is economical regarding its pre-assumed cost for making a system. We classified the costs of eSHOP according to the phase in which they occur. As we know that the system development costs are usually one-time costs that will not recur after the project has been completed. For calculating the Development costs we evaluated certain cost categories viz.

1. Personal costs
2. Computer usage
3. Supply and equipment costs
4. Cost of any new computer equipment and software

5.2.2.3 Operational Feasibility:

It is mainly related to human organization and political aspects.

Operational feasibility is all about problems that may arise during operations. There are two aspects related with this issue:

- What is the probability that the solution developed may not be put to use or may not work?

- What is the inclination of the management and end users towards the solutions? Though, there is very least possibility of management being averse to the solution, there is a significant probability that the end users may not be interested in using the solution due to lack of training, insight etc.

5.2.3 Problem Solution Analysis

5.2.3.1 Challenges

To be successful in life, you have to challenge that nothing is easy. Nothing is easier in the life of web developers than to be successful in facing all the problems. There are challenges in every step of the developers, just as I have had to face many problems. And I learned from my internship how to get rid of these different problems. And getting rid of these problems doesn't happen in a short time, they are solved gradually. A web developer has to face different problems like this, he has to learn different techniques and understand each problem to solve them. I use all my energy to balance myself in everything, to reach difficult positions, to learn to develop myself. I need additional training courses to learn advanced subjects so I start learning them. As a web developer, he needs to know the web language and its usage, such as PHP, JavaScript, Bootstrap, MySQL, knowledge of various frameworks. And having good knowledge about these gives extra power to the job market and helps to get some good results.

5.2.3.2 Problems

Coding by hand typing is a difficult task. When designing the web, HTML, CSS, these two things are different design structures, for this you both need to have an idea about the code. Again when I work on the database I have to read a lot of problems to insert, update, delete. If you do not match the database information when logging in, you may run into problems. PHP, MySQL is often problems connecting to databases.

5.2.3.3 Solution

Every human being has to have a strong foundation of education so that he can overcome all the problems even if he faces them. Just like I have received very skilled training, it teaches me how to get rid of all the problems they face. And for this, he has taught me various shortcut techniques. Bootstrap teaches you how to work with code from the framework in less time and with less difficulty. I have problems when I collect data from online and I collect them and finally, I can add the data to my website. Taught you how to easily manage data, sort data, and access them.

5.2.4 Effect and Constraints Analysis

Nowadays E-commerce is the most popular and fast-growing online marketing platform for all kinds of online business. Day by day more business houses become dependents on e-commerce business for e-commerce popularity. The websites also become more and more functional day by day for the e-commerce business. Now peoples become too dependent on online marketing where they can view the catalog of the

products and add to their shopping list. This matter is become very popular because of, at a time people view too many products in a category and able to find their favorite products for add to their carts. Web design and development is one of the best choices for our carrier and upcoming trend. Today's market situation I want to build up my carrier and I love to work with it. SobKisu Website was a good choice to build up my practical knowledge and skill. I have completed many web projects using PHP, My SQL, HTML, CSS, java script and Bootstrap to build up my all projects. Now, I am confident that I am ready to meet any challenges and having an excellent carrier.

5.3 System Design

In this phase, a logical system is built which fulfills the given requirements. Design phase of software development deals with transforming the customer's requirements into a logically working system. Normally, design is performed in the following in the following two steps:

1) Primary Design Phase:

In this phase, the system is designed at block level. The blocks are created on the basis of analysis done in the problem identification phase. Different blocks are created for different functions emphasis is put on minimizing the information flow between blocks.

2) Secondary Design Phase:

In the secondary phase the detailed design of every block is performed.

The general tasks involved in the design process are the following:

- I.** Design various block for overall system processes.
- II.** Design smaller, compact and workable modules in each block.
- III.** Design various database structures.
- IV.** Specify details of programs to achieve desired functionality.
- V.** Design the form of inputs, and outputs of the system.
- VI.** Perform documentation of the design.
- VII.** System reviews.

User Interface Design

User Interface Design is concerned with the dialogue between a user and the computer. It is concerned with everything from starting the system or logging into the system to the eventually presentation of desired inputs and outputs. The overall flow of screens and messages is called a dialogue.

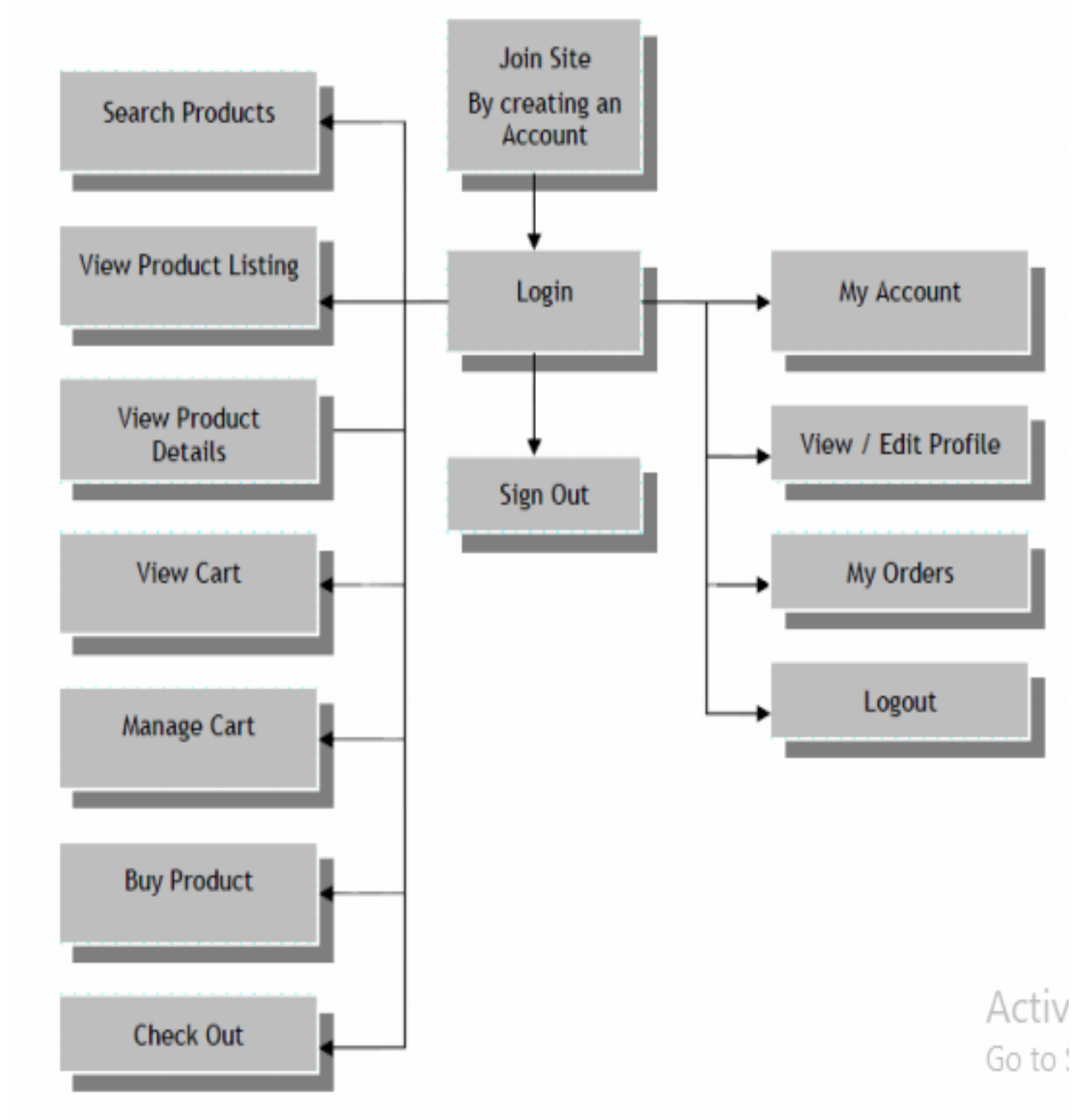
- 1) The system user should always be aware of what to do next.

- 2) The screen should be formatted so that various types of information, instructions and messages always appear in the same general display area.
- 3) Message, information or information should be displayed long enough to allow the system user to read them.
- 4) Use display attributes sparingly.
- 5) Default values for fields and answers to be entered by the user should be specified.
- 6) A user should not be allowed to proceed without correcting an error.
- 7) The system user should never get an operating system message or fatal error.

5.3.2 System Block Diagram

A block diagram is a diagram of a system in which the principal parts or functions are represented by blocks connected by lines that show the relationships of the blocks. They are heavily used in engineering in hardware design, electronic design, software design, and process flow diagrams.

Figure: 5.1 System Block Diagram



5.3.3 UML Diagrams

UML stands for Unified Modeling Language. UML is a language for specifying, visualizing and documenting the system. This is the step while developing any product after analysis. The goal from this is to produce a model of the entities involved in the project which later need to be built. The representation of the entities that are to be used in the product being developed need to be designed.

There are various kinds of methods in software design:

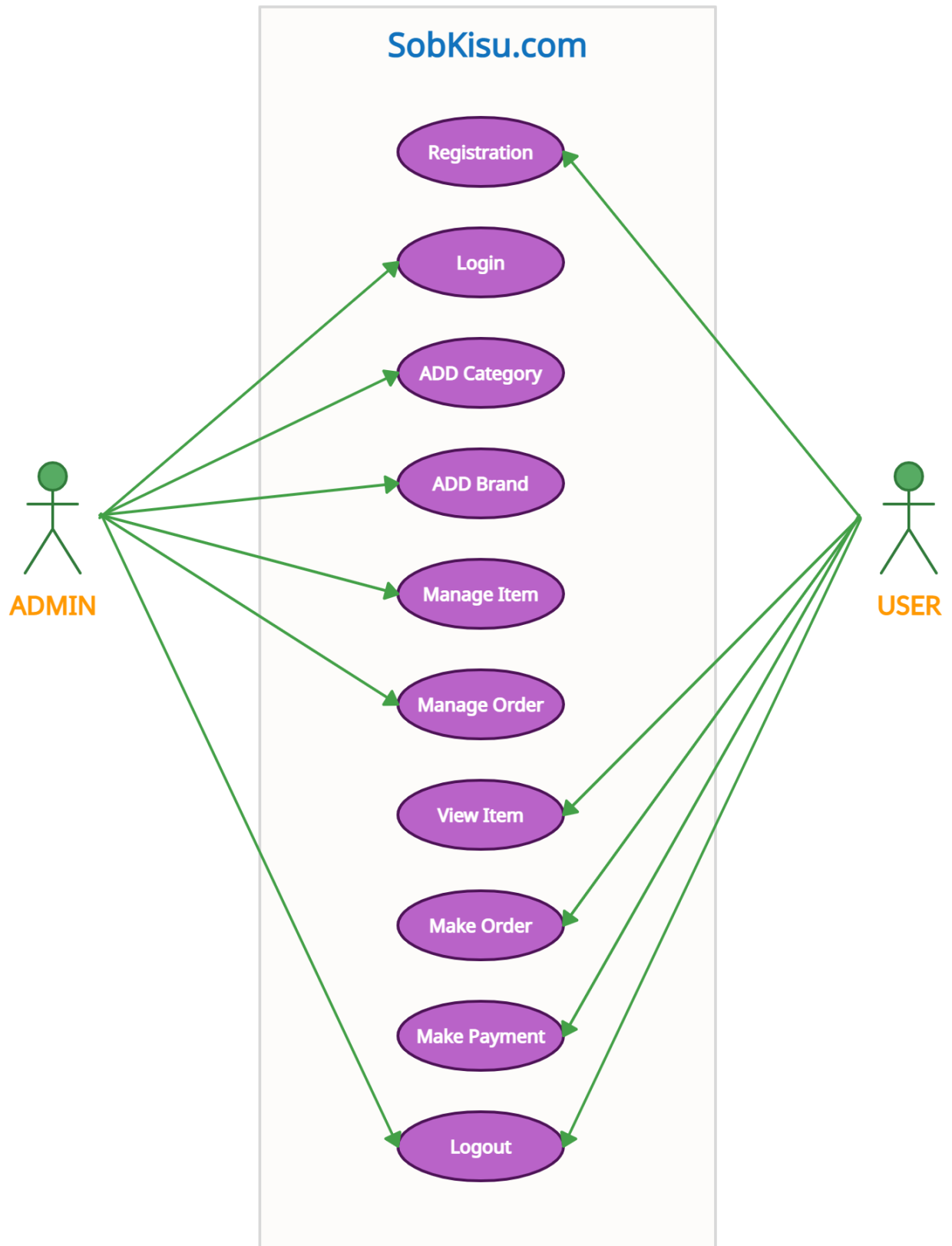
They are as follows:

- Use case Diagram
- Sequence Diagram
- Collaboration Diagram
- Activity Diagram
- State chat Diagram

5.3.3.1 Use Case Diagram

A Use case is a description of set of sequence of actions. Graphically it is rendered as an ellipse with solid line including only its name. Use case diagram is a behavioral diagram that shows a set of use cases and actors and their relationship. It is an association between the use cases and admin. An actor represents a real-world object. Primary Actor – Sender, Secondary Actor Receiver.

Figure:5.2 Use Case Diagram



5.3.3.2 Activity Diagram

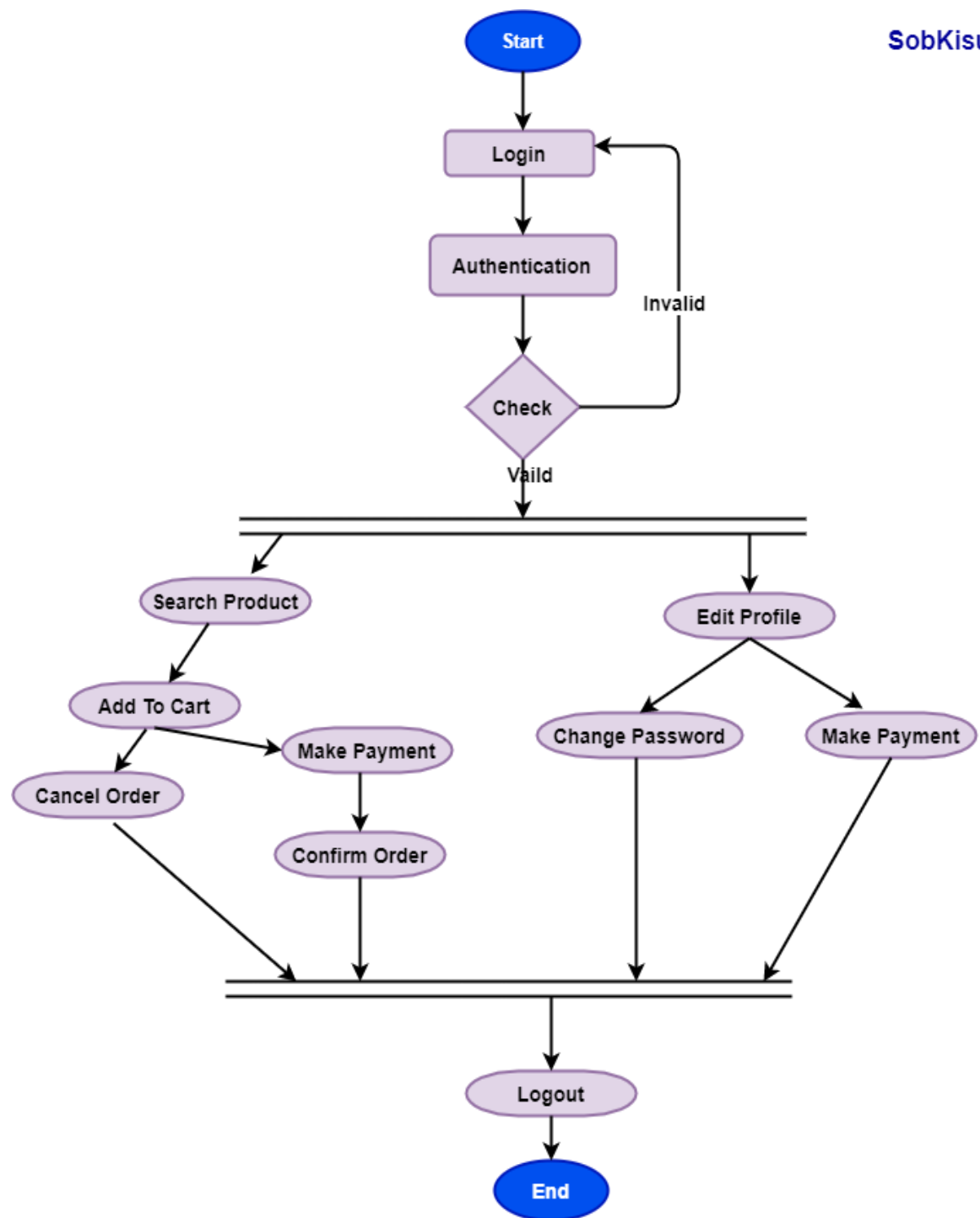
This is the Activity UML diagram of SobKisu Shopping management system which shows the flows between the activity of shopping cart, Confirm Order, Order, Payment, Product. The main activity involved in this UML Activity Diagram of SobKisu Shopping Management System are as follows :

- Shopping Cart Activity
- Confirm Order Activity
- Order Activity
- Payment Activity
- Product Activity

5.3.3.2.1 Features of User Activity UML Diagram for Sobkisu.com System

- User can search Shopping Cart, view description of a selected shopping cart, add shopping cart, Update shopping cart and Delete shopping cart.
- Its shows the activity flow of editing, adding and updating of confirm order
- User will be able to search and view selected item in own shopping Cart.
- Its shows the full description and flow of Search Product, Add Product, Cancel Order, Make Payment, Confirm Order, View Profile, Edit Profile, View My Cart and Logout.
- All Objects such as (Search Product, Confirm Order, Edit Profile) are interlinked.

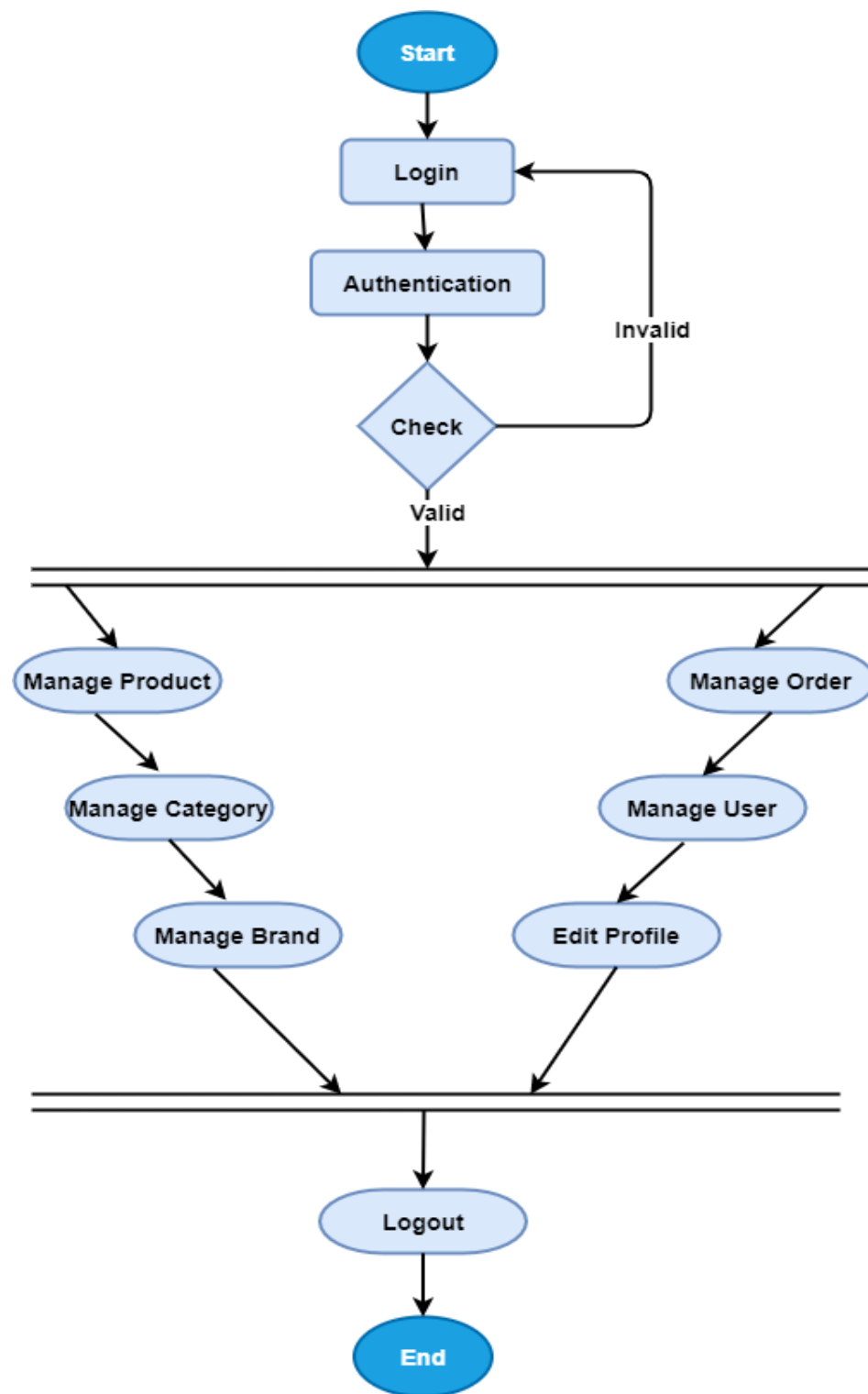
Figure: 5.3 Activity Diagram for User



Activity Diagram for User

Figure: 5.4 Activity Diagram for Admin

ShobKisu.com



Activity Diagram for Admin

5.3.3.2.2 Features of Admin Activity UML Diagram of Sobkisu.com System

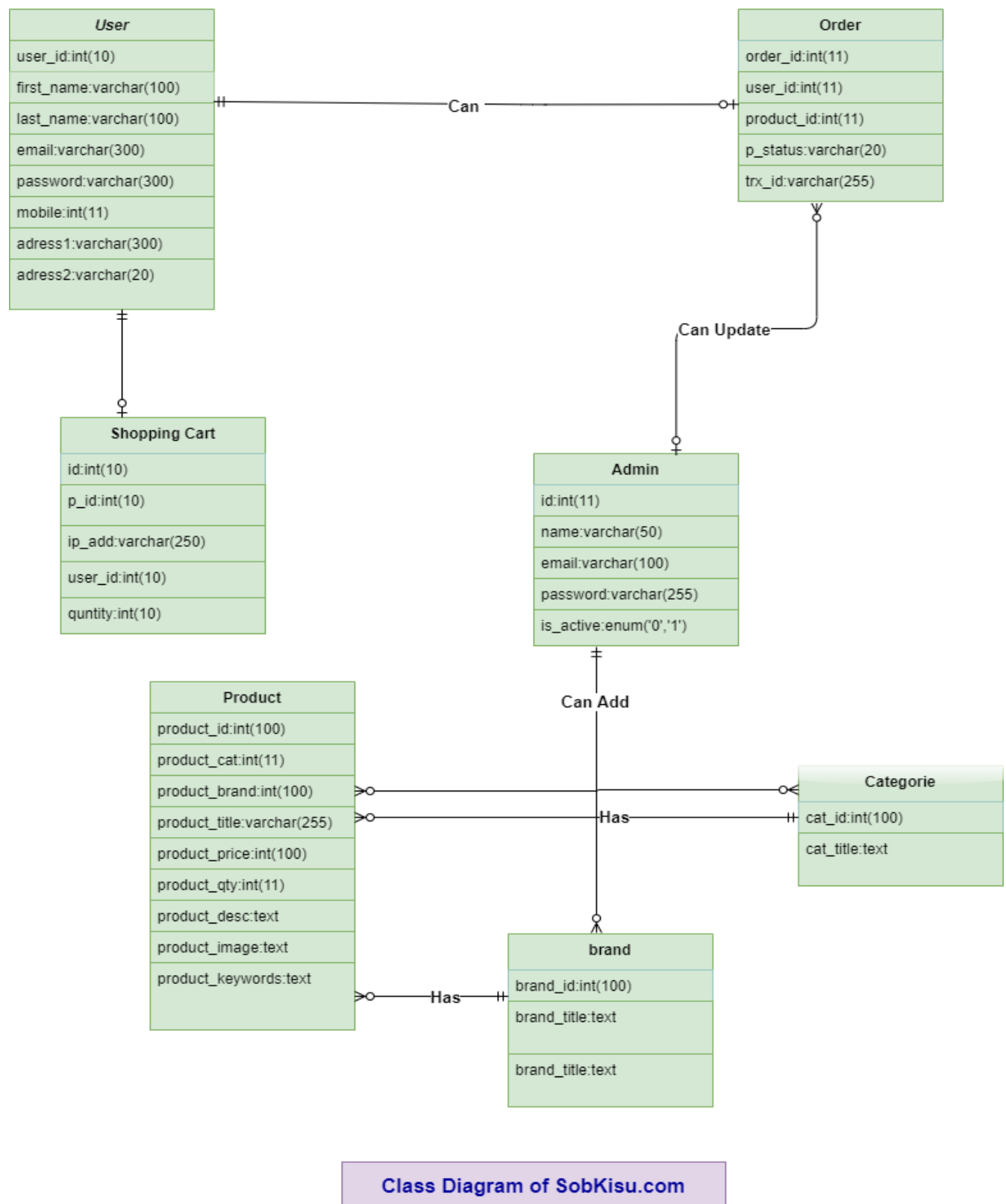
- Admin will be able to login using their Username and Password.
- Admin can View Order, view description of a selected shopping order, Manage Products, Manage Brand and Manage Category, Manage Users.
- All Objects such as (Manage Product, Manage Order, Manage Category) are interlinked.
- Its shows the activity flow of editing, adding and updating of confirm order, Product, Brand, Category.
- Admin will be able to Add New Product item, Add New Brand, Add New Category.
- Its shows the full description and flow of Manage Product, Manage Brand, Manage Category, Manage Order and Logout.

5.3.3.3 Class Diagram

Class is nothing but a structure that contains both variables and methods. The Class Diagram shows a set of classes, interfaces, and collaborations and their relating ships. There is most common diagram in modeling the object oriented systems and are used to give the static view of a system. It shows the dependency between the classes that can be used in our system. The interactions between the modules or classes of our projects are shown below. Each block contains Class Name, Variables and Methods. A description of set of objects that share the same attributes, operations, relationships, and semantics.

Figure: 5.5 Class Diagram

SobKisu.com

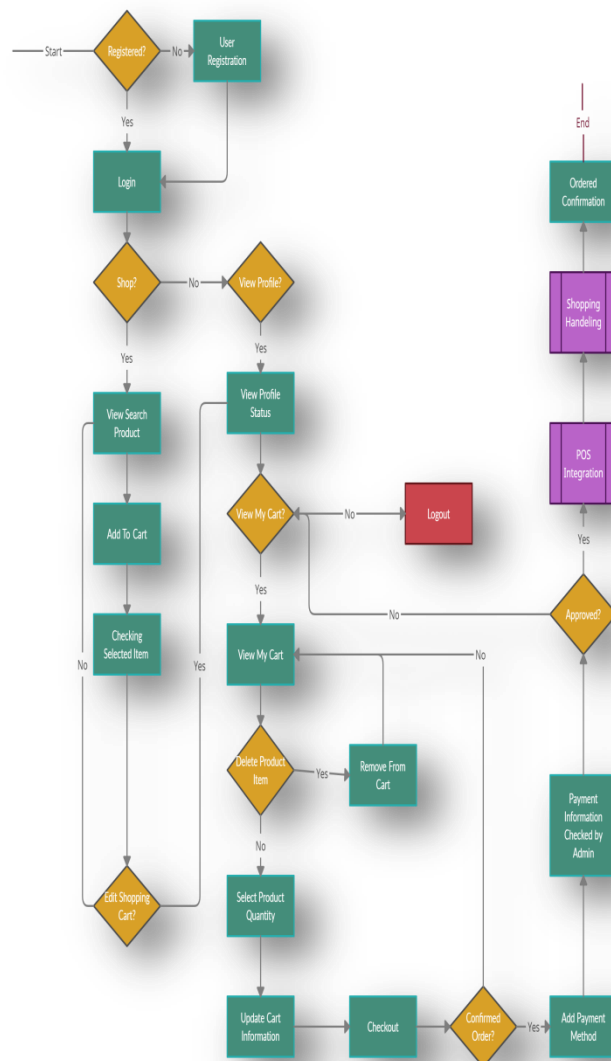


5.3.3.4 Flow Chart

A flow chart is a graphical or symbolic representation of a process. Each step in the process is represented by a different symbol and contains a short description of the process step. The flow chart symbols are linked together with arrows showing the process flow direction.

Figure: 5.6 Flow Chart

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Chapter 6

Software Requirement Specification

6.1 Introduction

The software Requirement Specification is produced at the culmination of the analysis task. The function and performance allocated to software as part of system engineering are refined by establishing a complete information description, a detailed functional and behavioral description, an indication of performance requirements and design constraints, appropriate validation criteria, and other data pertinent to requirements.

6.1.1 Product perspectives

The proposed system falls under RDMS category. I have adopted PHP as front end for the software and MYSQL as back end. PHP is at present one of the most popular development platform for web based system that is efficient for web programming. MYSQL is at present the most reliable and secure RDBS tool, a database of information, among the multiple clients requesting and sending data in the network. MYSQL has many important features that make it not only an exceptional database management system but also an excellent database server choice for server database computing. So the overall system will prove to reliable, secure and efficient for the organization.

6.1.2 Product Functions

Functionalities:

- Any person can query for products availability according to specified conditions.
- A Person can do Add/cancel a Product only after he/she login.
- A user can sign up for a profile if he doesn't have one already.
- On logging in, the user has options to
 - 1) Product issued.
 - 2) Edit Profile information.
 - 3) Cancellation of his Product issued.
 - 4) View all current Products.
 - 5) Logout
 - A Person can get all information about a product if he keys in the product id.
 - Administrator can add/modify/delete Shopping information.
 - Administrator can add/modify/delete seat type according their availability and generate report.
 - Administrator can Define and manage charges information.
 - Administrator can add/modify/delete user information and generate report.

6.1.3 Operating Environment-

The proposed software is to run on server model network. A server can deliver the better performance than the file server system because a client application and database server work together to split processing load of applications. The server manages the database among the number of clients, while the client send, request, and analyze the data entry from with small specific data set, such as rows in a table not file as in the file server system. A database server is intelligent enough so that it lock and return only the rows a client request, which ensure concurrency, minimize the network traffic and increase the system performance.

6.1.4 Assumptions and Dependencies-

While cost estimation of the proposed system it has been assumed that the cost hardware and for license of Operating System and back end will be met by the organization. Hence only the cost incurred for the proposed software is included therein.

The followings are identified as some of the potential risk factors or dependencies:

- Non-availability of required resources.
- Power cuts.
- Slippage of schedule due to unpredictable holidays, etc.

6.2 External Interface Requirements

6.2.1 User Interfaces-

It has been required that every form's interface should be user friendly and simple to use. Besides, there should be facility of accessing the system through keyboard along with the mouse i.e keyboard shortcuts.

6.2.2 Software Interfaces-

It has been required that there could be a necessity of using the stored data for some kind of report that is not supported by the proposed system at present. So the proposed system is required to export its data as text file so that some other application software can import the data.

6.3 System Future Requirement-

Other than descriptions provided above the following features were required by the client:

- The system should be secured enough to rely upon.
- Users should not be allowed to delete/modify any records.
- Users should not be allowed to take financial reports.
- Every user's report should keep the tracks of user inputting the record.
- System should provide facility of exporting its data in text format.
- System should be able to integrate with its Phase II developments.

6.4 Other Nonfunctional Requirements

6.4.1 Performance Requirements-

As it is going to be used by all the concerned employees within the organization, the system should have a good performance in terms of speed and accuracy. The proposed system should be accurate and fast enough to handle huge data. It should provide fast communication between server and clients.

6.4.2 Safety Requirements-

As the system is going to handle records for a long run eliminating the manual system, it is supposed to ensure the retaining of data avoiding or eliminating any probable cause for data loss.

6.4.3 Security Requirements-

The software should not allow unauthorized access to any module of the system besides, it should maintain the privileges granted to users at various user levels.

6.4.4 Software Quality Attributes-

The prioritization of the software quality attributes are assumed as under:

- Accurate and hence reliable.
- Secured.
- Fast speed.
- Compatibility.
- Portability.

Chapter 7

7 Results & Analysis

7.1 Testing

Testing is the process in which the system is run on manually crated input so that the system is correctly working as desired or not.

During system testing, the system is used experimentally to ensure that software does not fail. In other words, we can say that it will run according to its specifications and in the way users expect. Special test data are input for processing, and the results examined. A limited number of users may be allowed to use the system so that analyst can see whether they try to use it in unforeseen ways. It is desirable to discover any surprises before the organization implements the system and depends on it.

Testing of a system is generally done in two phases – One is unit Testing which is done for each module independently on its completion and the other one is System Testing which is done at the end of a project.

7.2 Validation Criteria

The validation criteria in this project are as follows

In Online shopping System System also, the user inputs are validated before storing them, and then further for displaying etc. The main

validations that are done in Online Shopping system System are as follows-

All the screens have a similar look and feel. They all have the almost same color combinations in its background. This provides a better user interface to the users.

- The primary key values cannot be duplicated.
- All the entries in any combo box have been sorted in alphabetical order. This helps a user while selecting a value from the combo box.

7.3 Importance of Testing:

During system testing, the system is used experimentally to ensure that software does not fail. In other words, we can say that it will run according to its specifications and in the way users expect. Special test data are input for processing, and the results examined. The importance of system testing is that the system is expected to run according to member's requirement before delivering it to the customer. The system is tested on the basis of specification so that it does not fail on user site.

Chapter 8

8 Implementation and Testing

8.1 Implementation

Detailed Design of Implementation –

This phase of the systems development life cycle refines hardware and software specifications, extensive testing procedures, to evaluate design and operating specifications and provide the basis for further modification.

Technical Design-

This activity builds upon specifications produced during new system design, adding detailed technical specifications and documentation.

Test Specification and Planing -

This activity prepares detailed test specifications for individual modules and programs, job streams, subsystems, and for the system as a whole.

User Training-

This activity encompasses writing user procedure manuals, preparation of user training materials, conducting training programs, and testing procedures.

Acceptance Test-

A final procedural review to demonstrate a system and secure user approval before a system becomes operational.

Installation Phase-

In this phase the new computerized system is installed, the conversion to new procedures is fully implemented, and the potential of the new system is explored.

System Installation: The process of starting the actual use of a system and training user personnel in its operation.

Review Phase –

This phase evaluates the successes and failures during a systems development project, and to measure the results of a new computerized Tran system in terms of benefits and savings projected at the start of the project.

Development Recap –

A review of a project immediately after completion to find successes and potential problems in future work.

Post-Implementation Review –

A review conducted after a new system has been in operation for some time, to evaluate actual system performance against original expectations and projections for cost-benefit improvements. Also identifies maintenance projects to enhance or improve the system.

8.2 The Steps in The Software Testing:

- Preparation of the test cases.
- Preparation of the possible test data with all the validation checks.
- Complete code review of the module.
- Actual testing done manually.
- Modifications done for the errors found during testing.
- Prepared the test result scripts.

The unit testing done included the testing of the following items:

- Functionality of the entire module.
- Validations for user input.
- Checking of the coding standards to be maintained during coding.
- Testing the module with all the possible test data.
- Testing of the functionality involving all type of calculations etc.
- Commenting standard in the source files.

After completing the unit testing of all the modules, the whole system is integrated with all its dependencies in that module. While system integration We integrated the modules one by one and tested the system at each step. This helped in reduction of errors at the time of the system testing.

The steps involved during System testing are as follows:

- Integration of all the modules in the system.
- Preparation of the test cases.
- Preparation of the possible test data with all the validation checks.
- Actual testing done manually.

- Recording of all the reproduced errors.
- Modifications done for the errors found during testing.
- Prepares the test result scripts after rectification of the errors.

The System Testing done included the testing of the following items:

1. Function of the entire system as a whole.
2. User Interface of the system.
3. Tasting the dependent modules together with all the possible test data scripts.
4. Verification and Validation testing.
5. Testing the reports with all its functionality.

After the completion of system testing ,the next following phase was the Acceptance Testing. Clients at their end did this and accepted the system with appreciation.

Thus, We reached the final phase of the project delivery.

8.3 Other Six Special Category Testing

There are other six test, which fall under special category. They are described below:

- I. Peak Load Test:** It determines whether the system will handle the volume of activities that occur when the system is at the peak of its processing demand. For example, Test the system by activating all terminals at the same time.
- II. Storage Testing:** It determines the capacity of the system to store transaction data on a disk or in other or in other files.

- III. Performance Time testing:** It determines the length of time system to process transaction data. This test is conducted prior to implementation to determine how long it takes to get a response to an inquiry, make a backup copy of a file, or send a transmission and get a response.
- IV. Recovery testing:** This testing determines the ability of user to recover data or re-start system after failure. For example, load backup copy of data and resume processing without data or integrity loss.
- V. Procedure Testing:** It determines the clarity of documentation on operation and uses of system by having users do exactly what manuals request. For example, powering down system at the end or responding to paper-out light on printer.
- VI. Human Factors Testing:** It determines how users will use the system when processing data or preparing reports.

Chapter 9

9 Lesson Learned

9.1 Problems Faced During this Period

To be successful in life, you have to problem that nothing is easy. Nothing is easier in the life of web developers than to be successful in facing all the problems. There are problems in every step of the developers, just as I have had to face many problems. And I learned from my internship how to get rid of these different problems. And getting rid of these problems doesn't happen in a short time, they are solved gradually. A web developer has to face different problems like this, he has to learn different techniques and understand each problem to solve them. I use all my energy to balance myself in everything, to reach difficult positions, to learn to develop myself. I need additional training courses to learn advanced subjects so I start learning them. As a web developer, he needs to know the web language and its usage, such as PHP, JavaScript, Bootstrap, MySQL, knowledge of various frameworks. And having good knowledge about these gives extra power to the job market and helps to get some good results. Coding by hand typing is a difficult task. When designing the web, HTML, CSS, these two things are different design structures, for this you both need to have an idea about the code. Again when I work on the database I have to read a lot of problems to insert, update, delete. If you do not match the database information when logging in, you may run into problems. PHP, MySQL is often problems connecting to databases.

9.2 Solution of those Problems

Every human being has to have a strong foundation of education so that he can overcome all the problems even if he faces them. Just like I have received very skilled training, it teaches me how to get rid of all the problems they face. And for this, he has taught me various shortcut techniques. Bootstrap teaches you how to work with code from the framework in less time and with less difficulty. I have problems when I collect data from online and I collect them and finally, I can add the data to my website. Taught you how to easily manage data, sort data, and access them.

Chapter 10

10 Design Specification

10.1 Project Description

1. Home Page
2. Products
3. User Registration Form
4. User Login From
5. User Profile
6. Selected Item Cart
5. Shopping Cart
6. Admin Panel
7. Data Insert Update Delete
8. Database

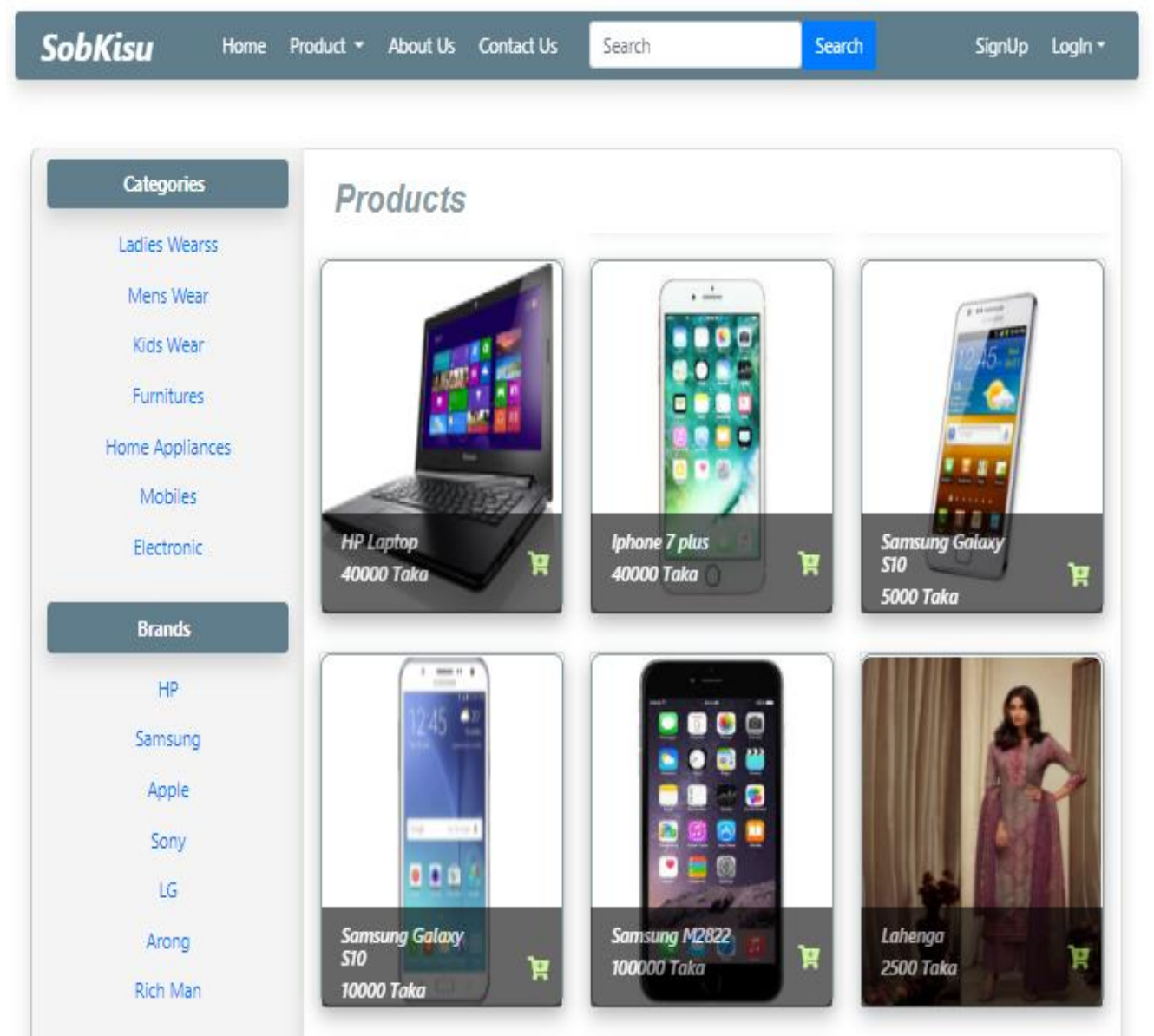
10.2 Front-end Design

Front-end design is the representation of a website. This is the way of interaction way between the users and the servers. Front-end design is known as a client-side development. In the most aspect of a web development, the most important part is to design the frontend. We created a simple front-end design for the users to co-operate with the website easily. Here are some front-end designs of our website given below.

10.2.1 Home Page

In the home page there are Menu bar, product section, contact us, About us, cart, Search, Signup, Login, Category, Brand and footer exits. The whole website is trying to responsive that means this can be viewed on many devices.

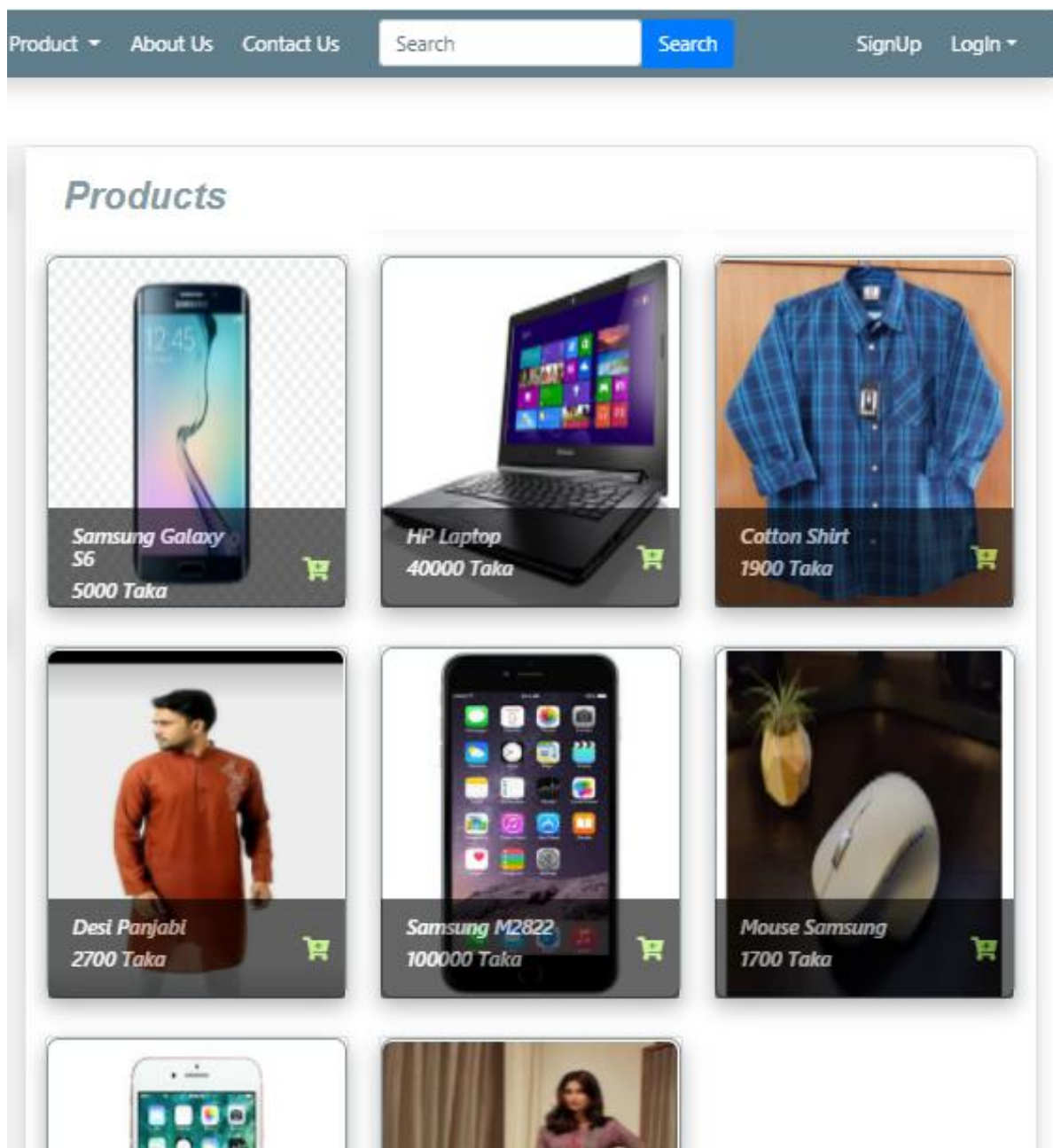
Figure: 10.1 Home Page



10.2.2 Products

Products page will carry information about the product being displayed. The page will carry Product Name, Product price, Product image, Product Add Option.

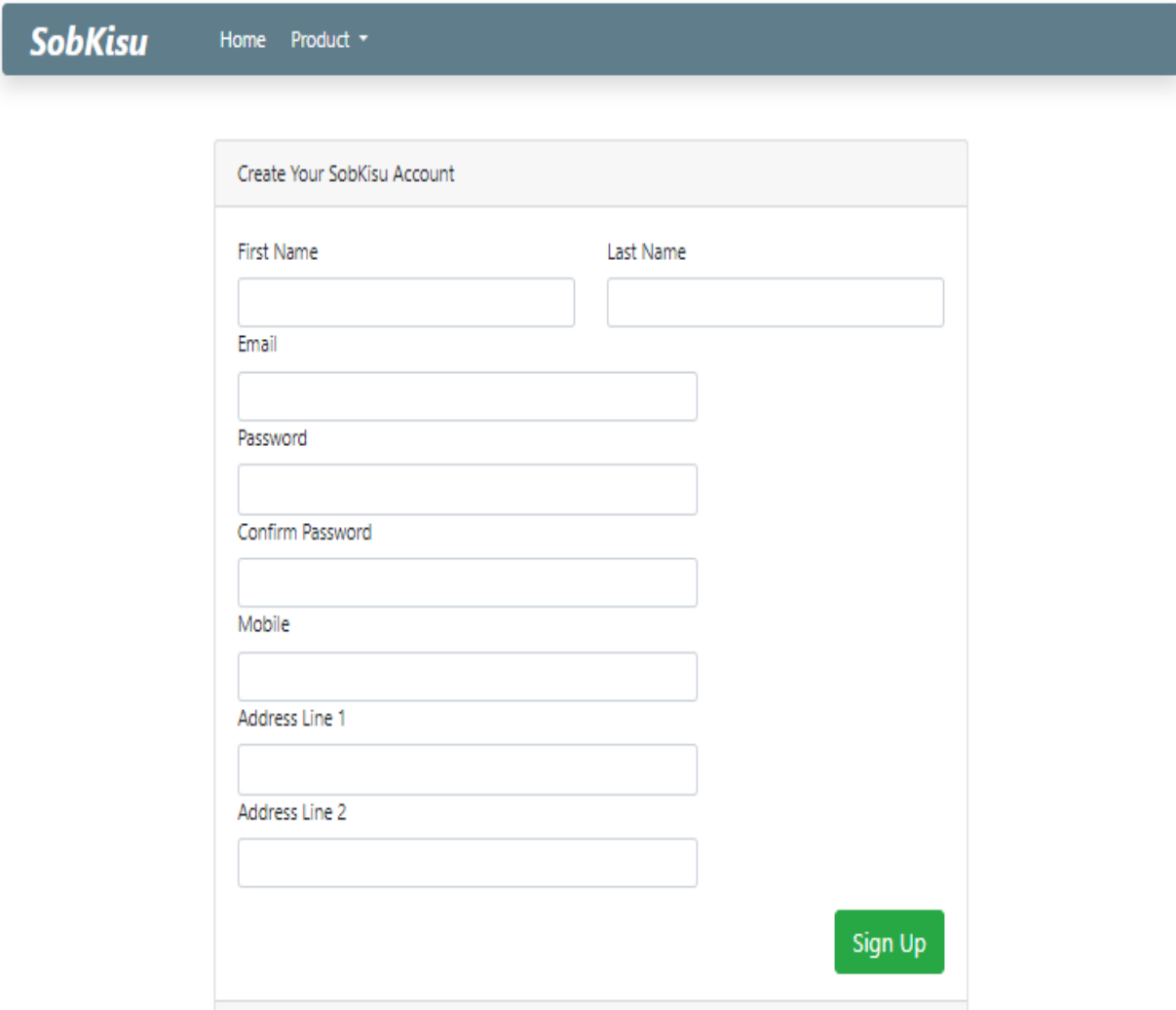
Figure: 10.2 Products



10.2.3 User Registration Form

There is a registration form for sign up on the website. Where users can sign up by filling out the registration form. And in this registration form, you have to sign up with a username, email, password, Mobile and Address. And there are some limitations in this registration form where the user cannot use the same mail again and again. Passwords must have lowercase, uppercase, symbol, number but there is no time limit on the name.

Figure: 10.3 User Registration Form

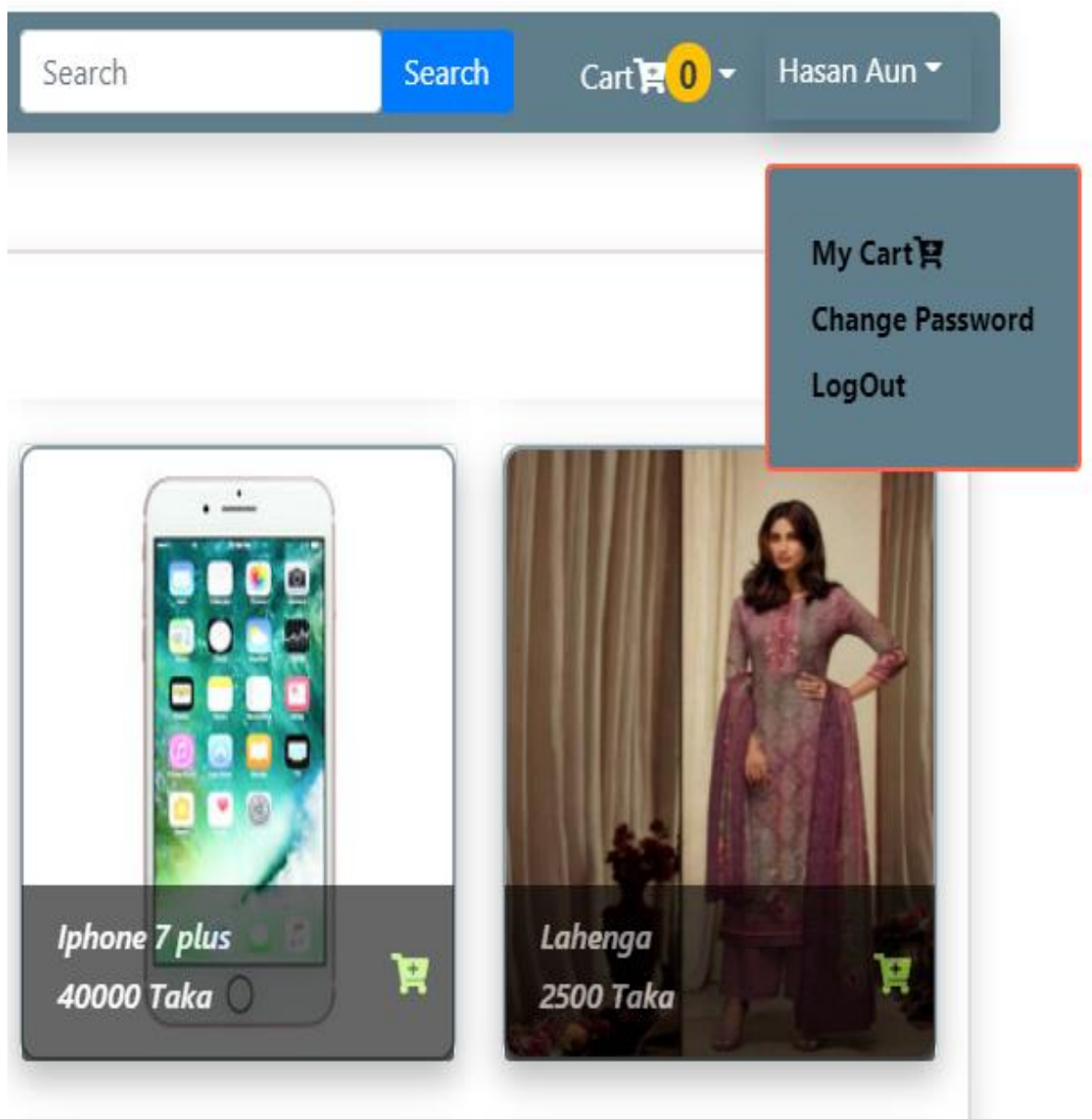


The image shows a web browser interface for the SobKisu website. At the top, there is a dark blue header bar with the 'SobKisu' logo on the left and navigation links 'Home' and 'Product' with a dropdown arrow on the right. Below the header, the main content area features a registration form titled 'Create Your SobKisu Account'. The form is a light gray box with a white background. It contains several input fields: 'First Name' and 'Last Name' (side-by-side), 'Email', 'Password', 'Confirm Password', 'Mobile', 'Address Line 1', and 'Address Line 2'. A green 'Sign Up' button is located at the bottom right of the form. The entire page is set against a white background with a thin black horizontal line at the bottom.

10.2.4 User Profile

After the user registers, you will get a panel where you can change the profile of the user to know all the information about his previous orders. User Profile You can see all the information of the user such as user name, user Email, user Address. If the user has ever transacted before, all his information will be stored here.

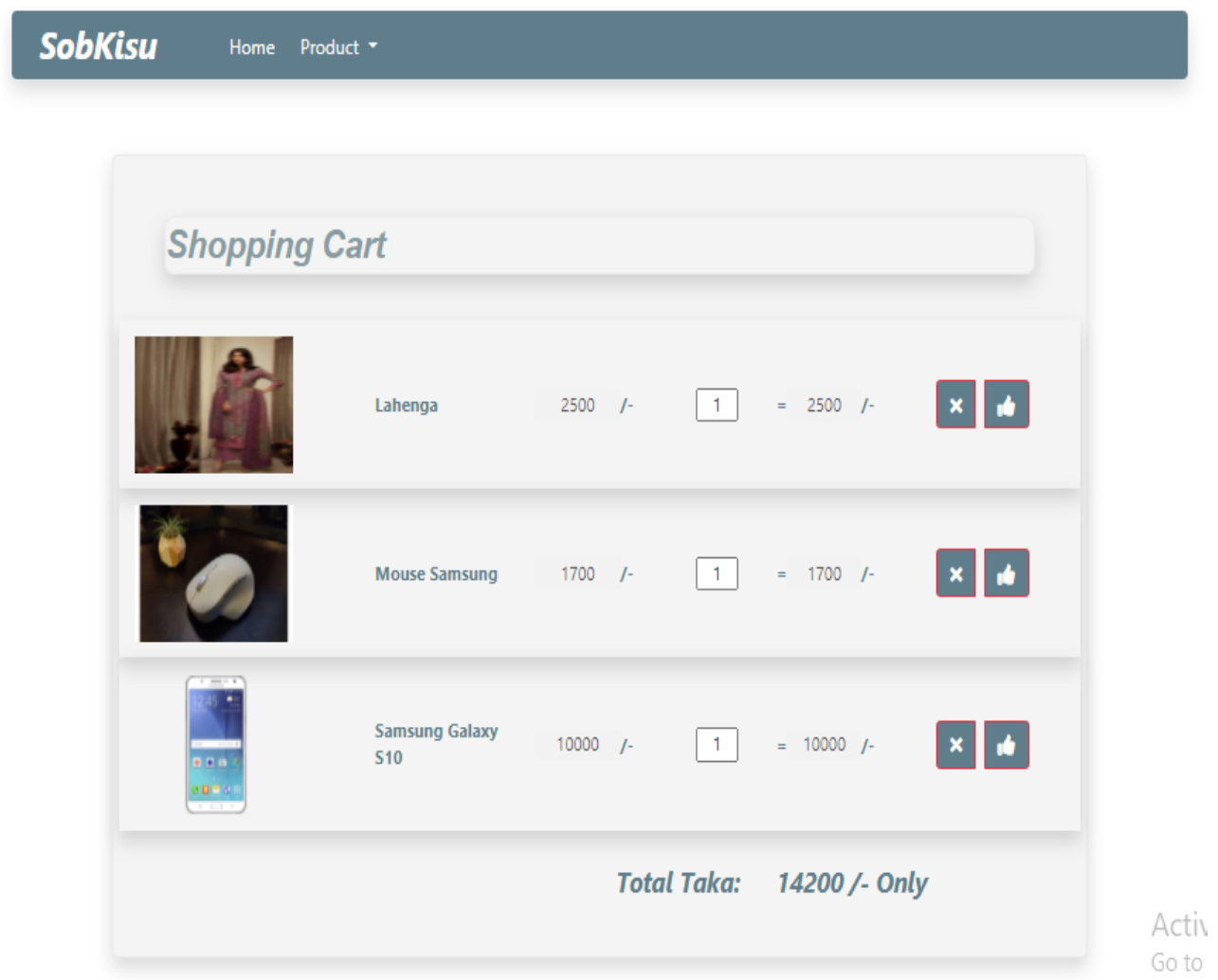
Figure: 10.4 User Profile



10.2.5 Shopping Cart

The shopping cart will have a product image, product name, product price, quality. All products will go to the cart after the purchase of different products. Users will be able to pay through this cart. Users can increase and decrease the number of products in the cart menu. The cart will be able to automatically add the total bill including discounts and VATs.

Figure: 10.5 Shopping Cart



10.2.6 Admin Panel

The admin panel is completely controlled by the admin. Adding a new product, adding a new category, adding a new Brand, deleting a product, deleting a category, deleting a brand, manage Order, manage User Information, editing all these is the job of the admin. It is up to the admin to cancel or add any user's order. Daily updating issues are handled by the admin.

Figure: 10.6 Admin Panel

ShopKisu Search Sign out

Dashboard Products Brands Categories Customers Orders

Hello Hasan Aun Share Export This week ▼

Other Admins

#	Name	Email	Status	Action
#	Badhon chawdhury	badhonchawdhury@gmail.com	0	
#	Hasan Aun	badhonchawdhury852@gmail.com	0	

10.2.7 Data Insert Update Delete

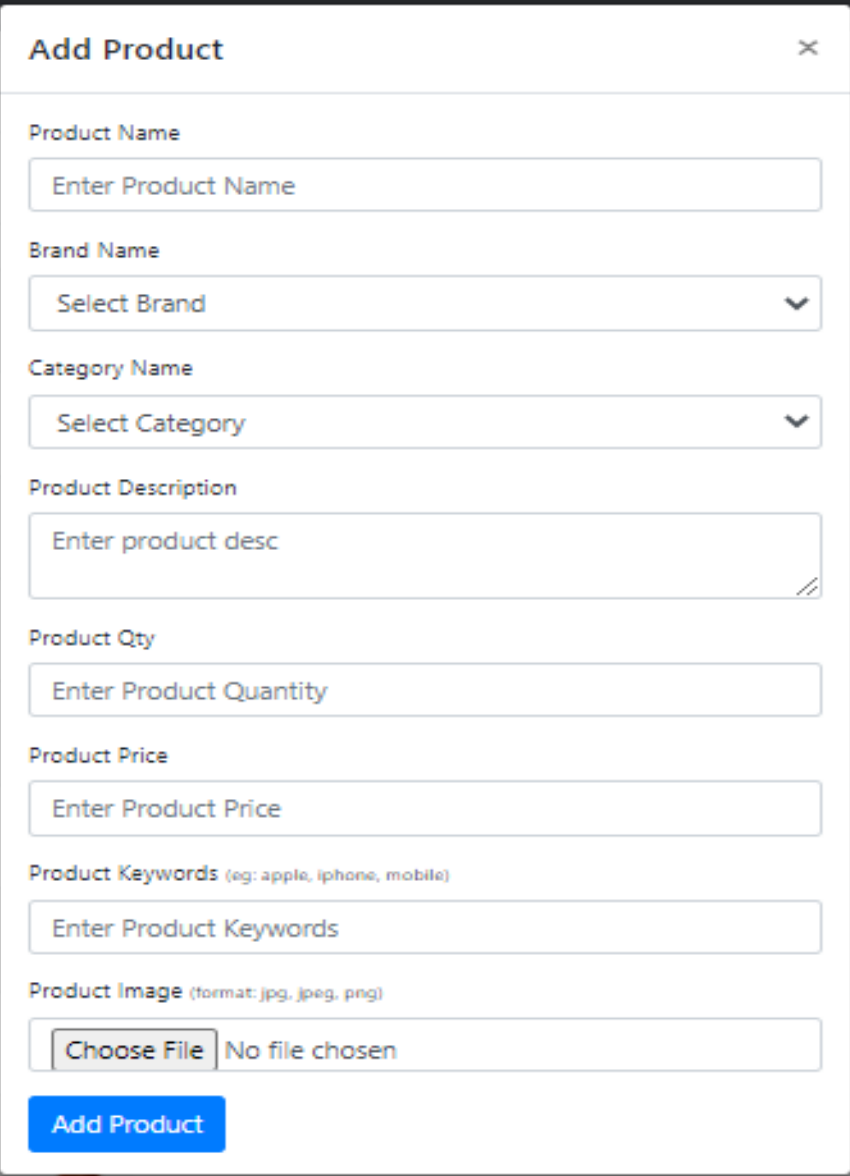
In this figure, we can see the admin panel where adding a new product, adding a new Brand, deleting a product, deleting a category, deleting a brand, manage Order, manage User Information, editing all these is the job of the admin. For adding different products admin use brand name, category, product name, product description, Product Image, Product Quantity, Product Keyword and price of the product.

Figure: 10.7 Update Product

The screenshot displays the ShopKisu admin dashboard. On the left is a sidebar with navigation links: Dashboard, Products, Brands, Categories, Customers, and Orders. The main content area shows a greeting 'Hello Hasan Aun' and a 'Product List' table. Above the table are buttons for 'Share', 'Export', and 'This week'. An 'Add Product' button is located at the top right of the table. The table has columns for #, Name, Image, Price, Quantity, Category, Brand, and Action. The data rows include various products like HP Laptop, Samsung Galaxy S10, Samsung Galaxy S6, Samsung Galaxy S10, Samsung M2822, Mouse Samsung, Iphone 7 plus, Lahenga, and Desi Panjabi. Each row has an 'Action' column with edit and delete icons.

#	Name	Image	Price	Quantity	Category	Brand	Action
	HP Laptop		40000	10	Home Appliances	HP	
	Samsung Galaxy S10		10000	50	Mobiles	Samsung	
	Samsung Galaxy S6		5000	100	Mobiles	Samsung	
	Samsung Galaxy S10		5000	5000	Mobiles	Samsung	
	Samsung M2822		100000	10	Home Appliances	Samsung	
	Mouse Samsung		1700	100	Electronic	Samsung	
	Iphone 7 plus		40000	5000	Mobiles	Apple	
	Lahenga		2500	10	Ladies Weears	Arong	
	Desi Panjabi		2700	120	Mens Wear	Arong	

Figure: 10.8 Add Product



The image shows a modal window titled "Add Product" with a close button (X) in the top right corner. The form contains the following fields:

- Product Name:** A text input field with the placeholder "Enter Product Name".
- Brand Name:** A dropdown menu with the placeholder "Select Brand".
- Category Name:** A dropdown menu with the placeholder "Select Category".
- Product Description:** A text area with the placeholder "Enter product desc" and a double-slash icon (//) in the bottom right corner.
- Product Qty:** A text input field with the placeholder "Enter Product Quantity".
- Product Price:** A text input field with the placeholder "Enter Product Price".
- Product Keywords:** A text input field with the placeholder "Enter Product Keywords" and a small hint "(eg: apple, iphone, mobile)".
- Product Image:** A section with the hint "(format: jpg, jpeg, png)" containing a "Choose File" button and the text "No file chosen".

At the bottom of the modal is a blue button labeled "Add Product".

The background of the application is a dark grey sidebar with a list of categories: Category, Home Ap, Mobiles, Mobiles, Mobiles, Home Ap, Electronic, Mobiles, Ladies W, Mens We, and Mens We. The main content area is partially visible, showing a product image and some numerical values like 1900 and 100.

Figure: 10.9 Manage Brand

Hello Hasan Aun

Share

Export

This week

Manage Brand

Add Brand

#	Name	Action
	HP	<div><div></div><div></div></div>
	Samsung	<div><div></div><div></div></div>
	Apple	<div><div></div><div></div></div>
	Sony	<div><div></div><div></div></div>
	LG	<div><div></div><div></div></div>
	Arong	<div><div></div><div></div></div>
	Rich Man	<div><div></div><div></div></div>

Figure: 10.10 Manage Category

Search

Hello Hasan Aun

Share

Export

Manage Category

Add Category

Add Category

Category Name

Enter Brand Name

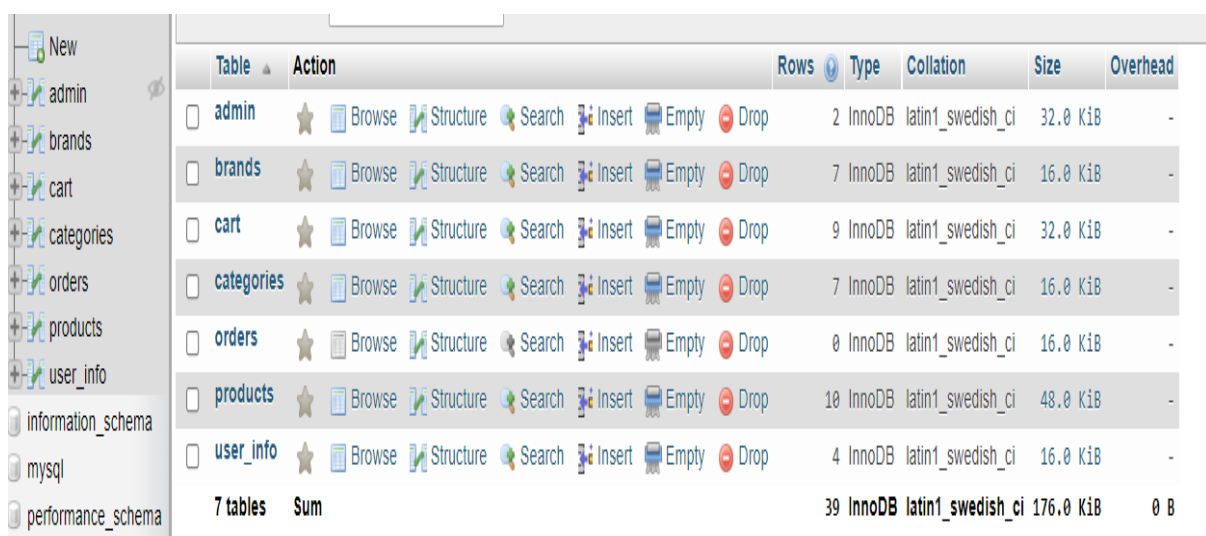
Add Category

#	Name	Action
	Ladies Wearss	<div><div></div><div></div></div>
	Mens Wear	<div><div></div><div></div></div>
	Kids Wear	<div><div></div><div></div></div>
	Furnitures	<div><div></div><div></div></div>
	Home Appliances	<div><div></div><div></div></div>
	Mobiles	<div><div></div><div></div></div>
	Electronic	<div><div></div><div></div></div>

10.2.7 Database

All the information of admin and user is stored in this database. This database is linked to the website using MySQL database PHP. Updating, editing, inserting, and deleting all the information in this database is done through the admin.

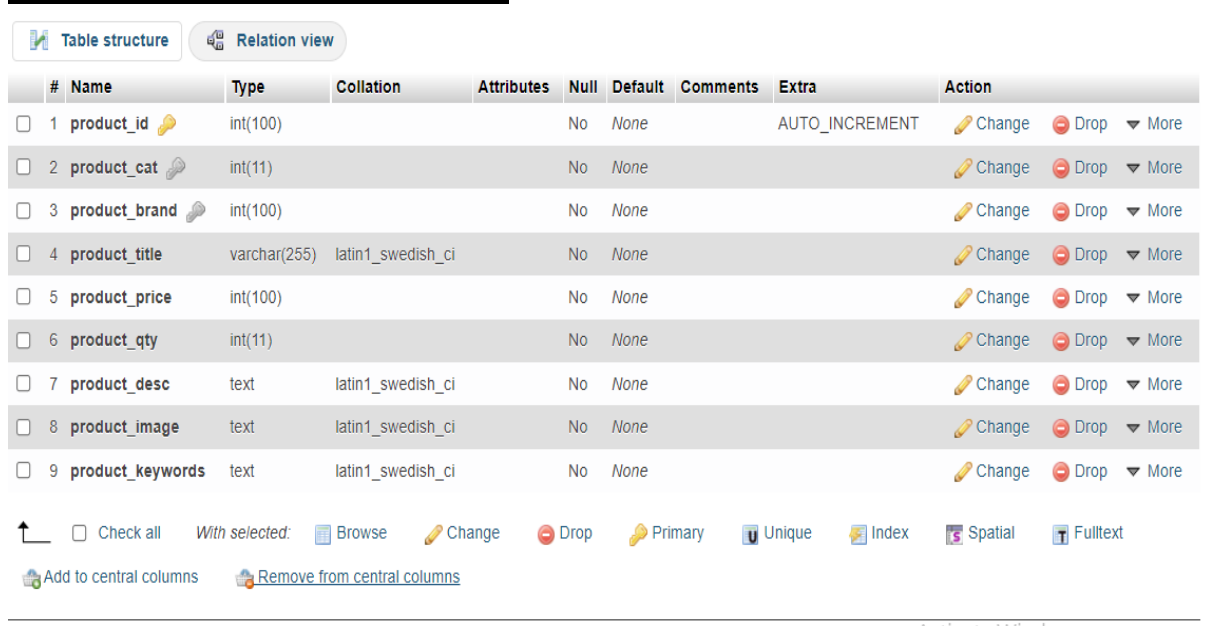
Figure: 10.11 Database tables



The screenshot shows the MySQL Database Tables view. On the left is a sidebar with a tree view of the database structure, including 'New', 'admin', 'brands', 'cart', 'categories', 'orders', 'products', 'user_info', 'information_schema', 'mysql', and 'performance_schema'. The main area displays a table of database tables with columns: Table, Action, Rows, Type, Collation, Size, and Overhead. The table lists 7 tables: admin, brands, cart, categories, orders, products, and user_info. The 'products' table is highlighted in blue. At the bottom, a summary row shows '7 tables' and 'Sum' with a total of 39 rows, InnoDB engine, latin1_swedish_ci collation, 176.0 KiB size, and 0 B overhead.

Table	Action	Rows	Type	Collation	Size	Overhead
admin	★ Browse Structure Search Insert Empty Drop	2	InnoDB	latin1_swedish_ci	32.0 KiB	-
brands	★ Browse Structure Search Insert Empty Drop	7	InnoDB	latin1_swedish_ci	16.0 KiB	-
cart	★ Browse Structure Search Insert Empty Drop	9	InnoDB	latin1_swedish_ci	32.0 KiB	-
categories	★ Browse Structure Search Insert Empty Drop	7	InnoDB	latin1_swedish_ci	16.0 KiB	-
orders	★ Browse Structure Search Insert Empty Drop	0	InnoDB	latin1_swedish_ci	16.0 KiB	-
products	★ Browse Structure Search Insert Empty Drop	10	InnoDB	latin1_swedish_ci	48.0 KiB	-
user_info	★ Browse Structure Search Insert Empty Drop	4	InnoDB	latin1_swedish_ci	16.0 KiB	-
7 tables	Sum	39	InnoDB	latin1_swedish_ci	176.0 KiB	0 B



Figure: 10.12 Product table




























The screenshot shows the MySQL Product table structure view. At the top, there are two tabs: 'Table structure' (selected) and 'Relation view'. The table structure is displayed with columns: #, Name, Type, Collation, Attributes, Null, Default, Comments, Extra, and Action. The table has 9 columns: product_id (int(100), primary key), product_cat (int(11)), product_brand (int(100)), product_title (varchar(255), latin1_swedish_ci), product_price (int(100)), product_qty (int(11)), product_desc (text, latin1_swedish_ci), product_image (text, latin1_swedish_ci), and product_keywords (text, latin1_swedish_ci). At the bottom, there are checkboxes for 'Check all' and 'With selected:', and buttons for 'Browse', 'Change', 'Drop', 'Primary', 'Unique', 'Index', 'Spatial', and 'Fulltext'. There are also links for 'Add to central columns' and 'Remove from central columns'.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	product_id	int(100)			No	None		AUTO_INCREMENT	Change Drop More
2	product_cat	int(11)			No	None			Change Drop More
3	product_brand	int(100)			No	None			Change Drop More
4	product_title	varchar(255)	latin1_swedish_ci		No	None			Change Drop More
5	product_price	int(100)			No	None			Change Drop More
6	product_qty	int(11)			No	None			Change Drop More
7	product_desc	text	latin1_swedish_ci		No	None			Change Drop More
8	product_image	text	latin1_swedish_ci		No	None			Change Drop More
9	product_keywords	text	latin1_swedish_ci		No	None			Change Drop More

Figure: 10.13 Users table

 **Table structure**
 **Relation view**

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	user_id 	int(10)			No	None		AUTO_INCREMENT	 Change  Drop  More
<input type="checkbox"/> 2	first_name	varchar(100)	latin1_swedish_ci		No	None			 Change  Drop  More
<input type="checkbox"/> 3	last_name	varchar(100)	latin1_swedish_ci		No	None			 Change  Drop  More
<input type="checkbox"/> 4	email	varchar(300)	latin1_swedish_ci		No	None			 Change  Drop  More
<input type="checkbox"/> 5	password	varchar(300)	latin1_swedish_ci		No	None			 Change  Drop  More
<input type="checkbox"/> 6	mobile	varchar(10)	latin1_swedish_ci		No	None			 Change  Drop  More
<input type="checkbox"/> 7	address1	varchar(300)	latin1_swedish_ci		No	None			 Change  Drop  More
<input type="checkbox"/> 8	address2	varchar(11)	latin1_swedish_ci		No	None			 Change  Drop  More





















































 ☐ Check all With selected:  Browse  Change  Drop  Primary  Unique  Index  Spatial  Fulltext
 Add to central columns  Remove from central columns

Figure: 10.14 Shopping Cart table

 **Table structure**
 **Relation view**

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	id 	int(10)			No	None		AUTO_INCREMENT	 Change  Drop  More
<input type="checkbox"/> 2	p_id	int(10)			No	None			 Change  Drop  More
<input type="checkbox"/> 3	ip_add	varchar(250)	latin1_swedish_ci		No	None			 Change  Drop  More
<input type="checkbox"/> 4	user_id	int(10)			Yes	NULL			 Change  Drop  More
<input type="checkbox"/> 5	product_title	varchar(300)	latin1_swedish_ci		No	None			 Change  Drop  More
<input type="checkbox"/> 6	product_image	text	latin1_swedish_ci		No	None			 Change  Drop  More
<input type="checkbox"/> 7	qty	int(10)			No	None			 Change  Drop  More
<input type="checkbox"/> 8	price	int(100)			No	None			 Change  Drop  More
<input type="checkbox"/> 9	total_amount	int(100)			No	None			 Change  Drop  More

 ☐ Check all With selected:  Browse  Change  Drop  Primary  Unique  Index  Spatial  Fulltext
 Add to central columns  Remove from central columns

Activate Windows

Chapter 11

11 Future work and Conclusion

11.1 Future Work

- Include more user-friendly function in future.
- Add more product detailed based feature.
- The security system will more update for better security.
- System features will be upgraded day by day for its better use.
- Adding a vice search engine for vocal search.
- By adding voice search option user will search anything on the site easily.
- The Payment system will more update for better Payment.
- Better UI for interaction.
- Try to include international brands.
- Will build a mobile app for all types of mobile operating system.
- Add more feature in admin panel.
- Users can sell their products.
- Users can signup/login using their social media account such as facebook, gmail.

11.2 Conclusion

The Internet has become a major resource in modern business, thus electronic shopping has gained significance not only from the entrepreneur's but also from the customer's point of view. For the entrepreneur, electronic shopping generates new business opportunities and for the customer, it makes comparative shopping possible. As per a survey, most consumers of online stores are impulsive and usually make a decision to stay on a site within the first few seconds. "Website design is like a shop interior. If the shop looks poor or like hundreds of other shops the customer is most likely to skip to the other site.

Hence i have designed the project to provide the user with easy navigation, retrieval of data and necessary feedback as much as possible. A good shopping system design must be accompanied with user-friendly shopping system application logic. It should be convenient for the customer to view the contents of their cart and to be able to remove or add items to their cart. The shopping system application described in this project provides a number of features that are designed to make the customer more comfortable. On the Other hand a huge achievement for my career as well as doing an internship at a Telnet Communication company, working in this company I have learned to do any job very easily and effectively. They helped me to do all sorts of things with great care that helped me overcome the fear of the unknown environment. I have been able to choose from many shortcut techniques for coding easily and effectively. This internship showed me the different architectures of web design and development. During the internship, I designed the website, created the database via MySQL, modified various modules, and modified and used them. Doing this internship is a huge knowledge for my career that I am looking forward to working as a web developer.