

**Computing Research Project**  
**Topic – Digital Transformation Strategies (DX)**  
**Theme – Remote Working**

Project Title	CPL-Capstone Project-Application Development
Qualification Name (NICF)	Advanced Certificate in Software Applications (Development and Process)
Product Name	Jumpstart Online Clothing Store
Module Name (NICF)	Application Development

Student name	Assessor name	
Chathushi Jayarathna	MS. Arvinder Kaur	
Date issued	Completion date	Submitted on
22 <sup>th</sup> Dec 2023	22 <sup>th</sup> Dec 2023	22 <sup>th</sup> Dec 2023

Project title	CPL-Capstone Project
---------------	----------------------

Learner declaration
I certify that the work submitted for this assignment is my own and research sources are fully acknowledged.
Student signature: <b>Chathushi</b> Date: 22 <sup>th</sup> Dec 2023

## Table of Contents

1.	Introduction .....	7
1.1	Research Background .....	7
1.2	Research Purpose.....	7
2.	Literature Review .....	8
3.	Research Plan .....	10
3.1	Research Philosophy .....	11
3.1.1	Saunders's Onion Theory .....	11
3.1.2	Stages of Saunders's Onion Theory.....	11
3.2	Gantt Chart and Work Breakdown Structures (WBS) for Research Proposal	17
3.2.1	Project Plan.....	17
3.2.2	Gantt Chart.....	17
3.2.3	WBS.....	18
4.	Research Methodologies .....	20
4.1	Primary Research .....	20
4.1.1	Types of Primary Research.....	20
4.2.2	Sources of data .....	25
4.2.3	Merits/ Demerits of Secondary Research.....	25
5.	Research Approaches.....	26
5.1	Quantitative Research .....	26
5.1.1	Quantitative Research Methodology .....	26
5.1.2	Merits/Demerits of Quantitative Research .....	27
5.2	Qualitative Research .....	27
5.2.1	Qualitative Research Methodology .....	27
5.2.2	Types of Qualitative Research Methods.....	28
5.2.3	Merits/Demerits of Qualitative Research .....	28
5.3	Mixed Methods Approach .....	29
6.	Research Design .....	29
6.1	Saunders Research Onion Theory.....	29
6.2	Compare among research methods and research approaches .....	30
6.2.1	Comparison of data Approaches.....	30
6.2.2	Comparison among primary methods: .....	30

6.2.3 Comparison of secondary methods.....	32
7. Research Conduct and Analysis.....	33
7.1 Conduct Primary Research .....	33
7.2 Conduct Secondary research (Identify Tools and techniques): .....	43
8. Project Proposal .....	47
8.1 Project Aim .....	52
8.2 Objective.....	52
8.3 Responsibilities.....	52
8.4 Scope .....	53
8.5 Project out of Scope.....	54
8.6 Enlist Assumptions.....	54
8.7 Project Environment.....	56
8.8 Project Blueprint.....	58
8.8.1 Flow charts.....	58
8.8.2 Story Boards.....	65
8.8.3 Wireframes.....	69
8.8.4 Prototypes .....	86
9. Communication with Stakeholders.....	105
11. Reflection on Research Methods.....	128
11.1 Effectiveness and challenges of methods applied .....	128
11.2 Alternative methods to overcome the challenges:.....	130
12. Conclusion: summary of how you have successfully achieved your CRP objectives and how which research methods have made this possible. ....	132
12.1 future research considerations:.....	134
13. Bibliography: in Harvard Referencing system.....	138
14. Appendix: rest evidence attaches here [both survey templates SS /observation and witness records, <i>Research Proposal Template</i> .....	139

## Table of Figures

Figure 1:Steps of Literature Review .....	9
Figure 2:Stages of Saunders's Onion Theory .....	12
Figure 3:Project Plan.....	17
Figure 4:Gantt Chart.....	18
Figure 5: Types of Primary Research .....	20
Figure 6: Typesa of Qualitative Research Methods .....	28
Figure 7: Jumpstart Pre Survey .....	35
Figure 8:Jumpstart Post Survey.....	39
Figure 9: Flow Chart - Admin .....	58
Figure 10: Flow Chart - Login .....	59
Figure 11: Flow Chart - Registration .....	60
Figure 12: Flow Chart - User .....	61
Figure 13: Flow Chart - Staff.....	62
Figure 14:Flow Chart - Search Products.....	63
Figure 15:Flow Chart - Post Products .....	64
Figure 16:Story Board - Landing.....	65
Figure 17:Story Board - User Login & Activities .....	66
Figure 18:Story Board - Admin Login and Activities.....	67
Figure 19:Story Board - Staff Login & Activities .....	68
Figure 20:Wireframe - Landing Page .....	69
Figure 21:Wireframe - About Us Page .....	70
Figure 22:Wireframe - Contact Us Page.....	71
Figure 23:Wireframe - Registration .....	72
Figure 24:Wireframe - Registration Verification .....	73
Figure 25:Wireframe - Registration Success .....	74
Figure 26:Wireframe - Login .....	75
Figure 27:Wireframe - Forgot Password.....	75
Figure 28:Wireframe - Admin User Management.....	76
Figure 29:Wireframe - Admin - Product Management - Before Add .....	76
Figure 30:Wireframe - Admin Prodcut Management - After Add .....	77
Figure 31:Wireframe - Edit Product Information .....	78
Figure 32:Wireframe - Add Product Form.....	79
Figure 33:Wireframe - Admin Edit User .....	80
Figure 34:Wireframe - Admin View Profile.....	80
Figure 35:Wireframe - User Dashboard .....	81
Figure 36:Wireframe - Cart Before and Items.....	81
Figure 37:Wireframe - Cart After and Items .....	82
Figure 38:Wireframe - User Profile and Order History.....	83
Figure 39:Wireframe - Staff Dashboard Product Management .....	84

Figure 40:Wireframe - Staff Create Product Category Form.....	84
Figure 41: Wireframe - Staff Category Management .....	85
Figure 42:Protypes - Landing Page .....	86
Figure 43:Protypes - Contact Us .....	87
Figure 44:Protypes - About Us Page.....	88
Figure 45:Protypes - Registration .....	89
Figure 46:Protypes - Registration Verification (OTP).....	89
Figure 47:Protypes - Registration Success .....	90
Figure 48:Protypes - Login.....	91
Figure 49:Protypes - Forgot Password .....	91
Figure 50:Protypes - Admin Dashboard .....	92
Figure 51: Prototypes - Admin Product Management Before Add.....	93
Figure 52:Prototypes - Admin Category Management.....	93
Figure 53:Prototypes - Admin Product Management After Add .....	94
Figure 54:Prototypes - Edit Product Infromation .....	95
Figure 55:Prototypes - Admin Add Products Form .....	96
Figure 56:Prototypes - Admin Edit User.....	97
Figure 57:Prototypes - Admin Profile View .....	98
Figure 58:Prototypes - Cart Before Add Items .....	98
Figure 59:Prototypes - Cart After Add Items .....	99
Figure 60:Prototyops - User Profile and Order History .....	100
Figure 61:Prototypes - User Dashboard .....	101
Figure 62:Prototypes - Staff Dashboard.....	102
Figure 63:Prototypes - Staff Create Product Category Form .....	103
Figure 64:Prototypes - Staff - Category Management.....	104
Figure 65: Implemented Landing Page .....	108
Figure 66:Implemented Contact Us Page .....	109
Figure 67:Implemented About Us Page .....	110
Figure 68:Implemented Registration Page .....	111
Figure 69:Implemented Registration Verification Page.....	111
Figure 70:Implemented Registration Success Page .....	112
Figure 71: Implemented Login Page.....	113
Figure 72:Implemented Forgot Password Page .....	113
Figure 73:Implemented Admin Dashboard .....	114
Figure 74:Implemented Admin Product Management Before Add .....	115
Figure 75:Implemented Admin Category Management Page.....	115
Figure 76:Implemented Admin Product Management After Add .....	116
Figure 77:Implemented Edit Product Information Page.....	117
Figure 78:Implemented Admin Add Product Form .....	118
Figure 79:Implemented Admin Edit User .....	119
Figure 80:Implemented Admin Profile View Page .....	120

Figure 81:Implemented Cart - Before Add Items .....	120
Figure 82:Implemented User Dashboard .....	121
Figure 83:Implemented Cart - After Add Items.....	122
Figure 84:Implemented User Profile and Order History .....	123
Figure 85:Implemented Staff Dashboard .....	124
Figure 86:Implemented Staff - Create New Category .....	124
Figure 87:Implemented Staff Category Management.....	125
Figure 88:Implemented Privacy & Policy Page .....	126
Figure 89:Implemented Terms & Conditions Page.....	127

## **RESEARCH PART (PART I)**

### 1. Introduction

#### 1.1 Research Background

Organizations everywhere in the world face new opportunities and challenges because of market digitization. As a result of this fast transformation, new digital marketing strategies and platforms are emerging due to tough conditions like the covid19 pandemic that can assist corporations to amplify their market reach and attain more success. Digitization is using adjustments in coverage, marketplace and enterprise shape and business enterprise way of life. When a digital machine is widely applied across vending and business processes, inclusive of the transformation of an offline supermarket right into a virtual save, big research and evaluation is needed to find out the adjustments and abilities in the system and consequently transform the shop on its foundation.

#### 1.2 Research Purpose

Aceadora Tech has been engaged as a website developer for the development. Jumpstart retail chain owns 750 shops nationwide. They attain out to the clients due to the excellent and creativity of their merchandise. A brand-new norm of faraway working has emerged in the submit-Covid19 disturbed their core enterprise in one of a kind respects. They need to reshape their business version and lean towards client trade. The project manger of JumpStart approached Aceadora Tech to provide the answer to overcome the challenges.

As a project manager I created e commerce website as a solution for this. E-commerce is fast gaining ground as an ordinary and used commercial enterprise paradigm. increasingly commercial enterprise homes are enforcing web websites providing functionality for appearing business

transactions over the net. it's miles reasonable to mention that the procedure of buying on the internet is turning into common.

The objective of this project is to increase a widespread-purpose e-commerce shop wherein any product (inclusive of books, CDs, computer systems, mobile phones, electronic items, cloths, domestic appliances and etc.) may be bought from the comfort of domestic thru the net.

An online store is a virtual store at the internet wherein customers can browse the catalog and pick products of interest. The chosen items may be accumulated in a shopping cart. At checkout time, the items inside the shopping cart might be supplied as an order. At that point, extra records might be wished to finish the transaction.

## 2. Literature Review

A literature review is an extensive description of preceding research on a selected concern count. A literature overview examines instructional guides, books, and special materials related to a specific subject of have a take a look at. This earlier test must be enumerated, described, summarized, objectively evaluated and defined inside the assessment. It has to offer a theoretical basis for the studies and assist you (the writer) in figuring out the scope of you observe. A literature overview identifies the artwork of previous researchers, assuring the reader that you examine is well concept out. the author is deemed to have study, assessed, and mentioned previous art work near have a look at. A literature evaluate constructs a "panorama" for the reader, imparting an in depth maintain near of the improvement inside the area. This review informs the reader that the author has certainly included all (or a big component) of the previous, tremendous works. The contrast, analysis,

interpretation, and/or assessment of literary works is taken into consideration literary complaint. that is, an opinion supported by means of using evidence usually associated with topic, style, ancient past, or ancient or political context. assessment articles on far flung working, stock management, and virtual transformation.

- ✚ [Pdfdrive.com](http://Pdfdrive.com)
- ✚ [Scholar.google.com](http://Scholar.google.com)

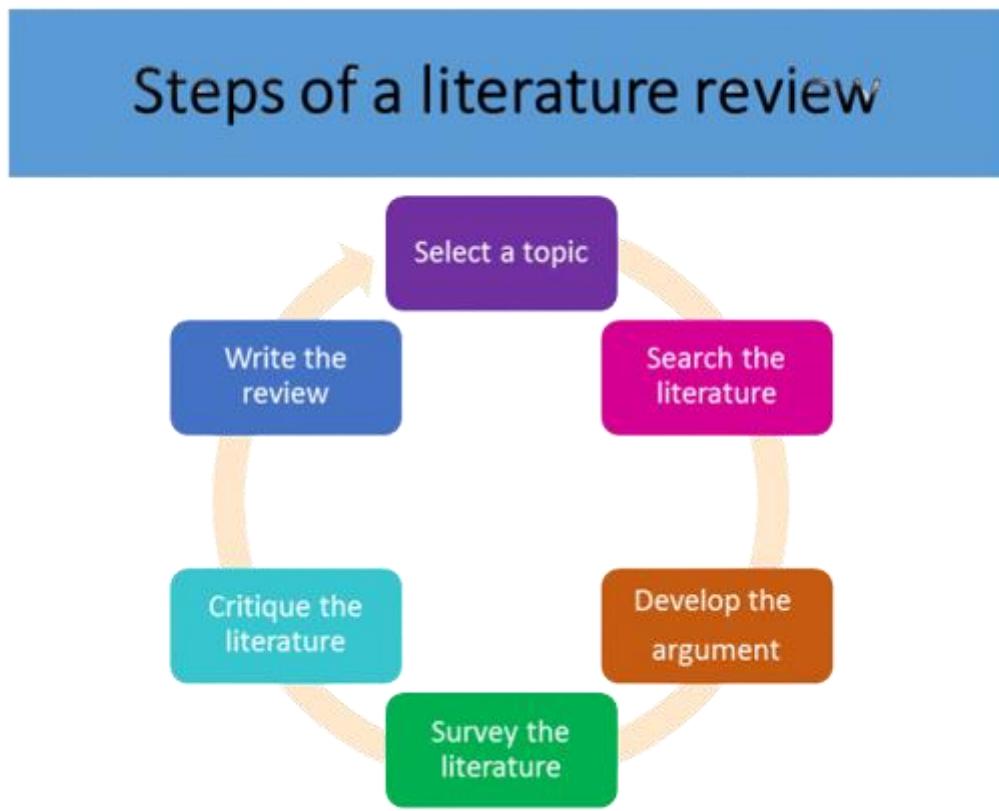


Figure 1: Steps of Literature Review

### **3. Research Plan**

#### **a) What is Research?**

Research is "creative and systematic work undertaken to increase the inventory of information". It involves the gathering, company, and evaluation of proof to increase the know-how of a subject, characterized by a particular attentiveness to controlling assets of bias and blunders. Those activities are characterized by accounting and controlling for biases. A studies assignment may be spread beyond paintings within the subject. To test the validity of instruments, processes, or experiments, research might also reflect elements of earlier projects or the project as an entire.

#### **b) What is its purpose?**

The research proposal is your chance to explain the importance of your mission to organizations who would possibly wish to fund or otherwise guide it. preferably, it'll demonstrate the best and significance of your challenge as well as your capacity to conduct the proposed research. The suggestion also offers you the opportunity to assume through your research task, to refine your attention, and to are expecting any challenges which could rise up. it may be useful to seek advice from your notion at diverse levels on your research manner to remind yourself of your focus and to chart how your task has advanced.

#### **c) What is its significance?**

The significance subsection will—

- Give an explanation for the importance of the problem or essential barrier to development within the area that the proposed project addresses.

- Explain how the proposed project will improve scientific information, technical functionality, and/or clinical exercise in a single or greater wide field.
- Describe how the principles, methods, technologies, treatments, services, or preventative interventions that pressure this discipline could be modified if the proposed aims are performed.
- State whether or not there is a strong scientific premise for the project.

### **3.1 Research Philosophy**

#### **3.1.1 Saunders's Onion Theory**

The research onion turned into developed by way Saunders et al. (2007). It illustrates the stages that need to be covered while growing a research approach. whilst considered from the doors, each layer of the onion describes a greater specified stage of the research manner (Saunders et al., 2007).

"The research onion is an illustrative model, developed through Saunders et al, to explain the ranges thru which a researcher should progress to formulate an effective methodology"

The research onion affords a powerful development through which a study's methodology may be designed. Its usefulness lies in its adaptability for almost any form of study technique and can be utilized in a selection of contexts (Bryman, 2012).

#### **3.1.2 Stages of Saunders's Onion Theory**

The onion is made up of 6 layers, which you'll need to peel again one by one as you expand your research methodology

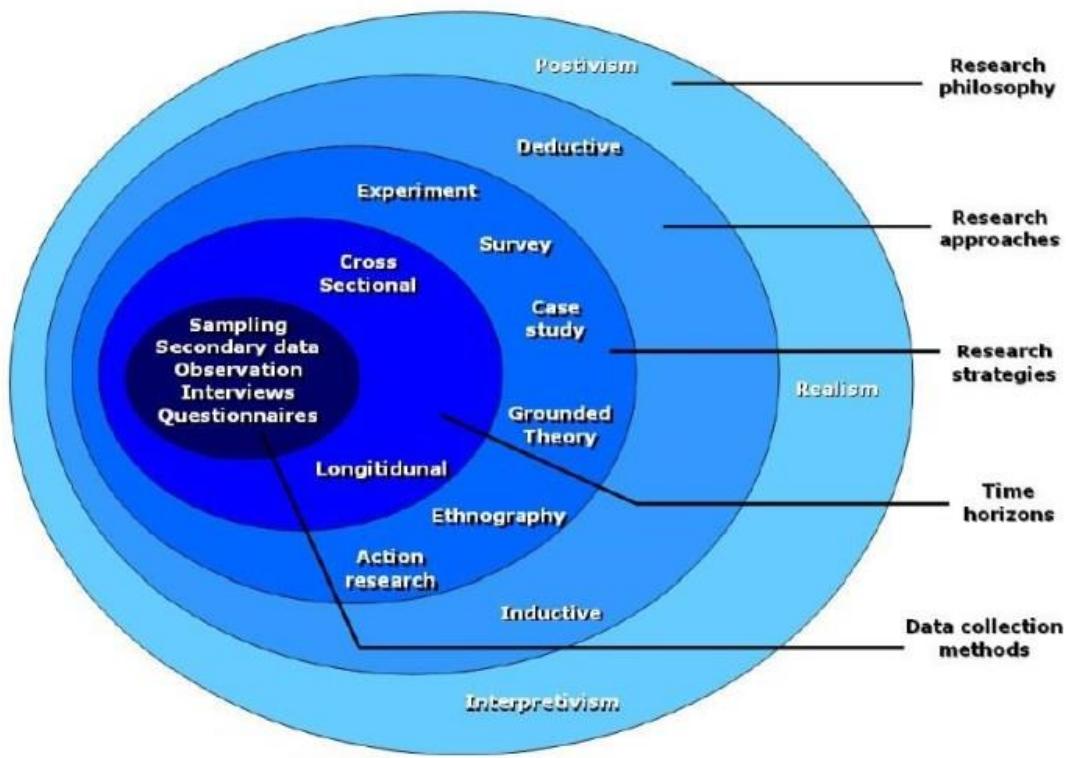


Figure 2: Stages of Saunders's Onion Theory

### a) Research philosophy

It refers to the set of concepts regarding the worldview or stance from which the research is performed. It also includes studies in terms of ontology and epistemology. Right here, ontology refers to the authenticity of the statistics and how one is familiar with its lifestyles, while epistemology refers back to the legitimate records required for the research and the way to acquire them. Philosophical positions utilized in instructional research are frequently divided into positivism and interpretivism, wherein positivism assumes that understanding is unbiased of the problem being studied, and interpretivism claims that character observers have their own beliefs and know-how of reality. As a result, positivist research is often more scientific and brings about testing phenomena, while interpretive research is often qualitative in nature.

## **b) Research approach**

Deductive and inductive are the 2 terms that the second layer of the study's onion includes. right here, the preceding layer of the onion has an impact in this one so it is critical to know the study's goal and its limitations.

### **✓ The Deductive Approach**

The deductive approach develops the speculation or hypotheses upon a pre-existing principle after which formulates the research method checks it (Silverman, 2013). The deductive approach may be taken into consideration especially suitable to the positivist approach, which allows the method of hypotheses and the statistical checking out of predicted results to a time-honored stage of possibility (Snieder & Larner, 2009). It's far characterized as the development from preferred to precise: the overall principle and knowledge base is first established and the particular expertise received from the studies technique is then tested towards it (Kothari, 2004). However, a deductive method may also be used with qualitative studies techniques, although in such instances the expectations shaped through pre-present studies might be formulated in a different way than via speculation testing (Saunders et al., 2007). The deductive method makes use of questionnaire to create know-how of observation which allows you to examine the special expertise of humans thru empirical statistics. The records accumulated enables to verify or reject the question, the technique can be repeated.

### **✓ The Inductive Approach**

The inductive approach lets in so as to create a concept in preference to undertake a pre-present one as inside the deductive. This without a doubt outlines the distinction within the two strategies. The inductive approach is characterized as a circulate from the unique to the overall (Bryman & Bell, 2011). In this approach, there may be no framework that first of all informs the data collection and the research consciousness can accordingly be fashioned after the information has been gathered (Flick, 2011). even

though this could be visible because the factor at which new theories are generated, it is also true that as the information is analyzed that it is able to be discovered to fit into an existing idea (Bryman & Bell, 2011). This approach is commonly used for qualitative research. Interviews are achieved regarding unique phenomena and then the records can be tested for patterns among respondents (Flick, 2011). but this method can also be used efficiently inside positivist methodologies, where the information is analyzed first and great styles are used to inform the technology of effects

### **c) Research strategy**

The research strategy describes how the researcher intends to carry out the paintings (Saunders et al., 2007). The method can include some of one of a kind approaches, which include experimental research, action research, case observation studies, interviews, surveys, or a scientific literature assessment

#### **✓ Experimental**

Experimental research refers to the strategy of creating a research procedure that examines the outcomes of a test against the anticipated results. it is able to be utilized in all regions of research and usually involves the consideration of a noticeably confined number of things (Saunders et al., 2007).

#### **✓ Survey**

The survey strategy of the research onion is frequently related to the deductive method. it's miles one of the best and low-cost research strategies. you could collect rich and reliable data via this approach. Surveys tend to be utilized in quantitative studies projects and contain sampling a representative share of the populace (Bryman & Bell, 2011). The Survey method is more often than not used to examine contributing

variables among specific facts. It lets for the collection of substantial data with the purpose to be used to reply to the study's question.

✓ **Case Study**

This approach is focused on one or extra people or a single location. it may offer a perception of the particular nature of any example and can set up the significance of way of life and context in variations among instances (Silverman, 2013). This strategy is greater beneficial in economic research. Case observation studies is the assessment of a single unit with a view to setting up its key functions and drawing generalizations (Bryman, 2012). This shape of studies is powerful in economic research, inclusive of evaluating the reviews of two corporations or comparing the impact of funding in distinction contexts.

**d) Choices**

This is the fourth layer of the research onion; it is also referred to as research desire. This residue helps you to know whether or not it's far great to combine each quantitative and qualitative technique or to apply the simplest method. According to Saunders et al (2007), there are 3 mentioned choices in the studies onion that includes the mono, combined, and multi-method research choice or method.

- ✓ Mono Method
- ✓ Mixed Method
- ✓ Multi-Method

**e) Time horizon**

The time horizon describes the required time for the final touch of the project work. Two sorts of time horizons are detailed in the research onion: the cross-sectional and the longitudinal (Bryman, 2012).

✓ **Cross Sectional**

The cross-sectional time horizon is the one already installed, wherein the information ought to be accumulated. this is used whilst the research is involved with the look at a selected phenomenon at a particular time.

✓ **Longitudinal**

A longitudinal time horizon for data series refers to the collection of statistics repeatedly over a prolonged period and is used in which a vital factor for the studies is inspecting change through the years (Goddard & Melville, 2004).

**f) Techniques & procedures**

Finally, we attain the center of the onion – that is where you get down to the actual practicalities of your research to make choices regarding precise strategies and procedures.

Specifically, this is wherein you'll:

- ✓ Determine what facts you'll collect and what records collection methods you'll use (as an example, will you operate a survey? Or possibly one-on-one interviews?)
- ✓ Decide how you'll pass approximately sampling the population (for example, snowball sampling, random sampling, convenience sampling, and so forth).
- ✓ Decide the form of records analysis you'll use to answer your research questions (together with content material evaluation or a statistical evaluation like correlation).
- ✓ Installation of the substances you'll be the use your look at (which includes writing up questions for a survey or interview)

## 3.2 Gantt Chart and Work Breakdown Structures (WBS) for Research Proposal

### 3.2.1 Project Plan

		Name	Duration	Start	Finish	Predecessors	Resource Names
1		Requirement Gathering	4 days	2/13/23 8:00 AM	2/16/23 5:00 PM		
2		Kickoff Meetings	1 day	2/13/23 8:00 AM	2/13/23 5:00 PM		Project Manager
3		Identify Stakeholders	1 day	2/14/23 8:00 AM	2/14/23 5:00 PM	2	Business Analysis
4		Gather and Documentation	2 days	2/14/23 8:00 AM	2/15/23 5:00 PM	2	Business Analysis
5		Set the Objective	0.5 days	2/15/23 8:00 AM	2/15/23 1:00 PM	4	Project Manager
6		Prepare SRS Document	2 days	2/15/23 8:00 AM	2/16/23 5:00 PM	5	Business Analysis
7		<b>Planning</b>	<b>3 days</b>	<b>2/17/23 8:00 AM</b>	<b>2/21/23 5:00 PM</b>	<b>1</b>	
8		Document the Scope	0.5 days	2/17/23 8:00 AM	2/17/23 1:00 PM	6	Project Manager
9		Cost Estimation	1 day	2/17/23 8:00 AM	2/17/23 5:00 PM	6	Business Analysis;Project Manager
10		Allocating Resources	0.5 days	2/17/23 8:00 AM	2/17/23 1:00 PM	8	Project Manager
11		Risk Planning	2 days	2/17/23 8:00 AM	2/20/23 5:00 PM	10	Business Analysis
12		Test Planning	1 day	2/21/23 8:00 AM	2/21/23 5:00 PM	11	QA Manager
13		<b>Design</b>	<b>3 days</b>	<b>2/20/23 8:00 AM</b>	<b>2/22/23 5:00 PM</b>	<b>7</b>	
14		Prepare Technical Design	1 day	2/20/23 8:00 AM	2/20/23 5:00 PM	10	Design Engineer;Developer
15		Prepare Prototype	2 days	2/21/23 8:00 AM	2/22/23 5:00 PM	11	Design Engineer;Developer
16		Design Database	1 day	2/22/23 8:00 AM	2/22/23 5:00 PM	12	DBA;Design Engineer
17		<b>Implementation</b>	<b>11 days</b>	<b>2/23/23 8:00 AM</b>	<b>3/9/23 5:00 PM</b>	<b>13</b>	
18		Coding the Source Code	7 days	2/23/23 8:00 AM	3/3/23 5:00 PM	16	Developer
19		Implement the database	3 days	3/6/23 8:00 AM	3/8/23 5:00 PM	18	Developer
20		Prepare Business Logics	1 day	3/9/23 8:00 AM	3/9/23 5:00 PM	19	Business Analysis
21		<b>Testing</b>	<b>4 days</b>	<b>3/9/23 8:00 AM</b>	<b>3/14/23 5:00 PM</b>	<b>18</b>	
22		Conduct Unit Testing	1 day	3/9/23 8:00 AM	3/9/23 5:00 PM	19	Business Analysis
23		Conduct Integration Test	1 day	3/10/23 8:00 AM	3/10/23 5:00 PM	20	QA Manager
24		Fix the errors	2 days	3/11/23 8:00 AM	3/14/23 5:00 PM	22	Developer
25		<b>Deployment</b>	<b>3.5 days</b>	<b>3/16/23 8:00 AM</b>	<b>3/21/23 1:00 PM</b>	<b>21</b>	
26		UAT Testing	1 day	3/16/23 8:00 AM	3/16/23 5:00 PM	23	Client
27		Fix errors	2 days	3/17/23 8:00 AM	3/20/23 5:00 PM	24	Developer
28		Deploy the website	0.5 days	3/21/23 8:00 AM	3/21/23 1:00 PM	24	Project Manager
29		<b>Maintenance</b>	<b>2.5 days</b>	<b>3/21/23 1:00 PM</b>	<b>3/23/23 5:00 PM</b>	<b>25</b>	
30		Release the user guide ...	0.5 days	3/21/23 1:00 PM	3/21/23 5:00 PM	24	Business Analysis;Project Manager
31		Provide post deployment	0.5 days	3/22/23 8:00 AM	3/22/23 1:00 PM	24	Business Analysis
32		Service level agreement	1 day	3/21/23 1:00 PM	3/22/23 1:00 PM	25	Client
33		Complete Project	1 day	3/23/23 8:00 AM	3/23/23 5:00 PM	25	Project Manager

Figure 3:Project Plan

### 3.2.2 Gantt Chart

A Gantt chart, generally utilized in project control, is one of the maximum popular and beneficial methods of displaying activities (tasks or events) displayed against time. On the left of the chart is a list of the activities and along the top is a suitable time scale. Each interest is represented by means of a bar; the location and length of the bar reflects the begin date, period and stop date of the activity. This lets in you to peer at a glance:

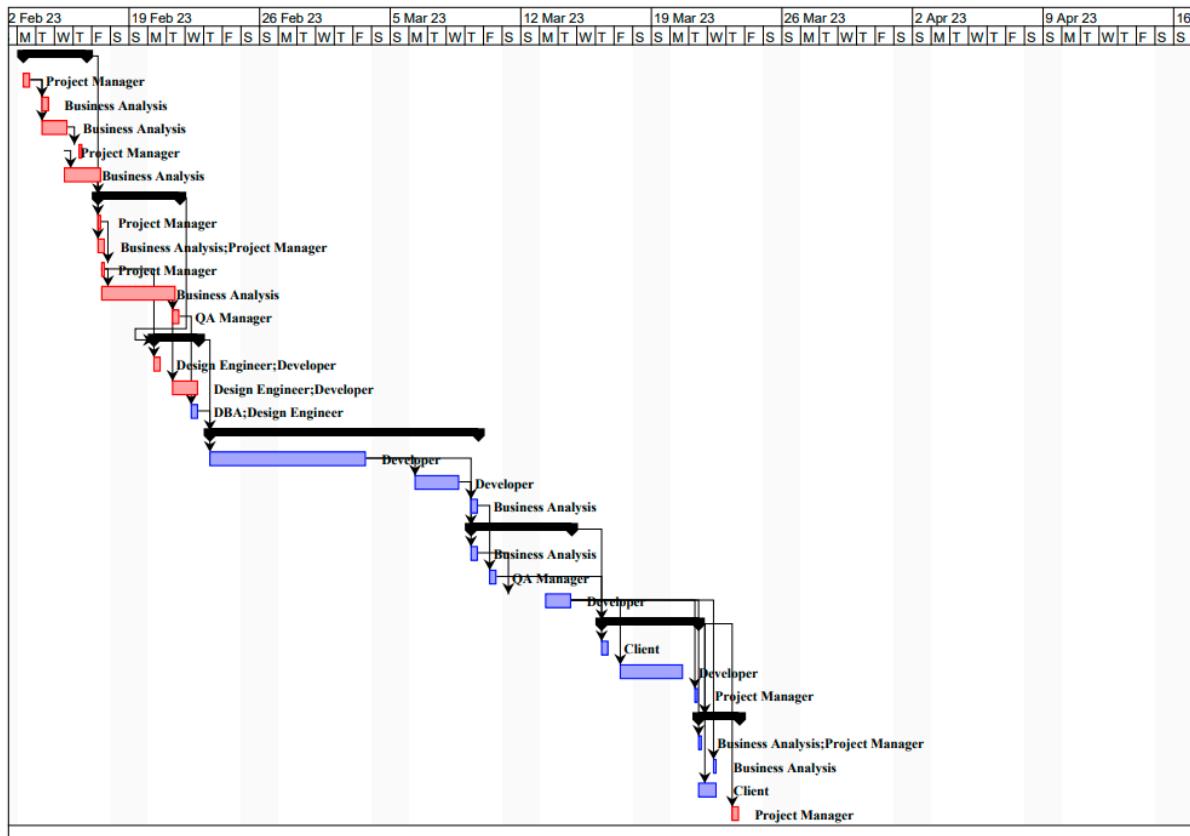
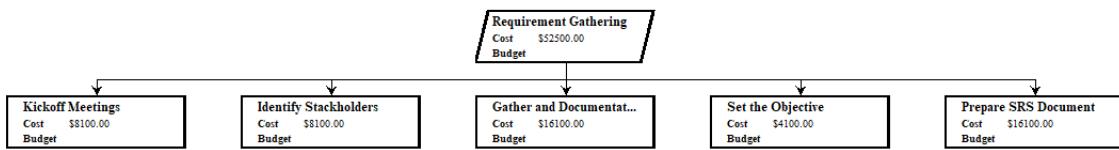
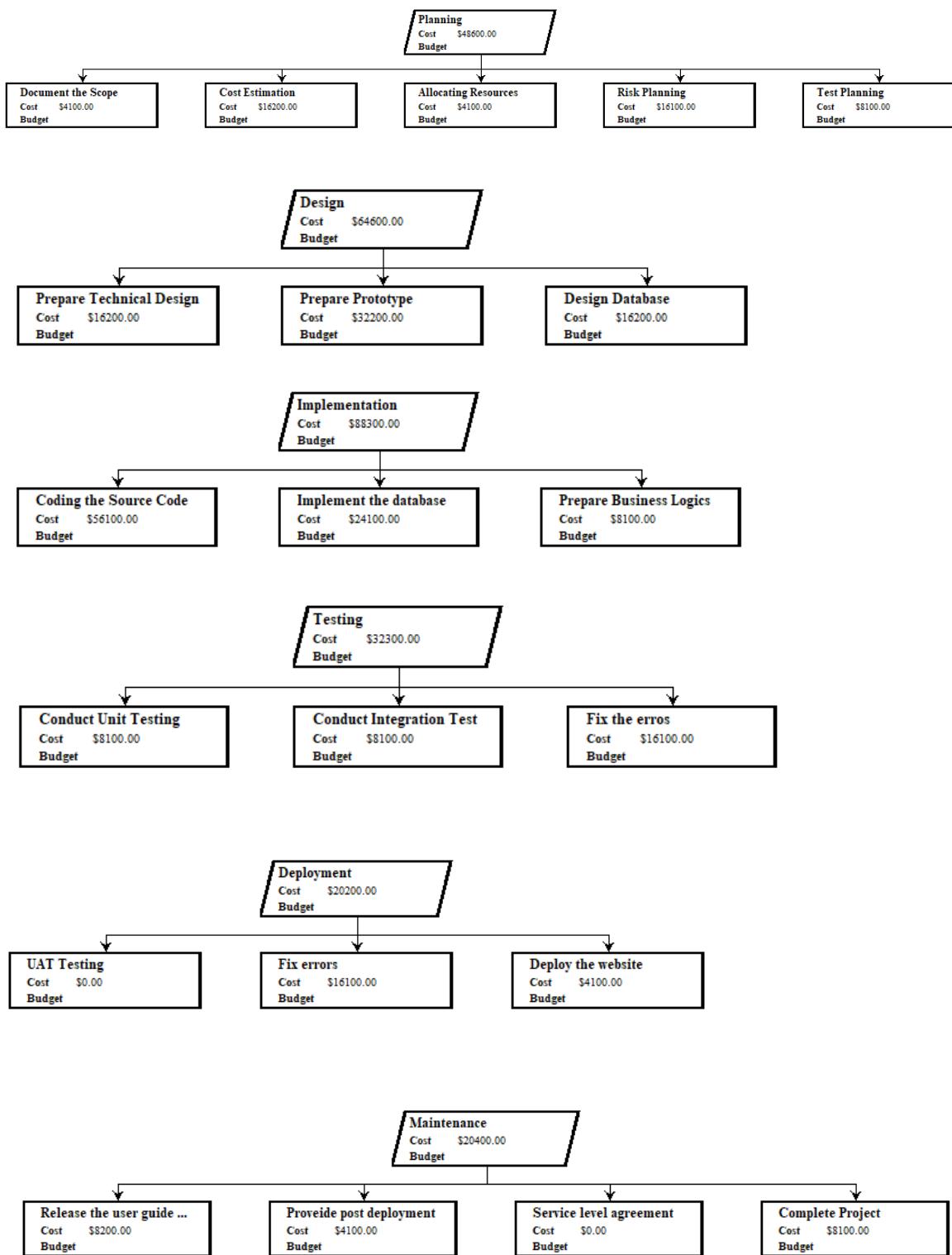


Figure 4: Gantt Chart

### 3.2.3 WBS

A work-breakdown structure in project management and systems engineering is a deliverable-orientated breakdown of a task into smaller components. A work breakdown shape is a key undertaking deliverable that organizes the group's work into plausible sections





## 4. Research Methodologies

A research methodology is an define of the tactics, techniques, and techniques employed in a research observe for the gathering, analysis, and interpretation of statistics. studies papers incorporate a section committed to the research methodology of the look at conduct.

### 4.1 Primary Research

Primary research is defined as a technique utilized by researchers to collect records at once, in preference to depending on statistics accumulated from previously finished research. Technically, they “own” the facts. Primary research is only completed to deal with certain trouble, which requires in-depth analysis

#### 4.1.1 Types of Primary Research

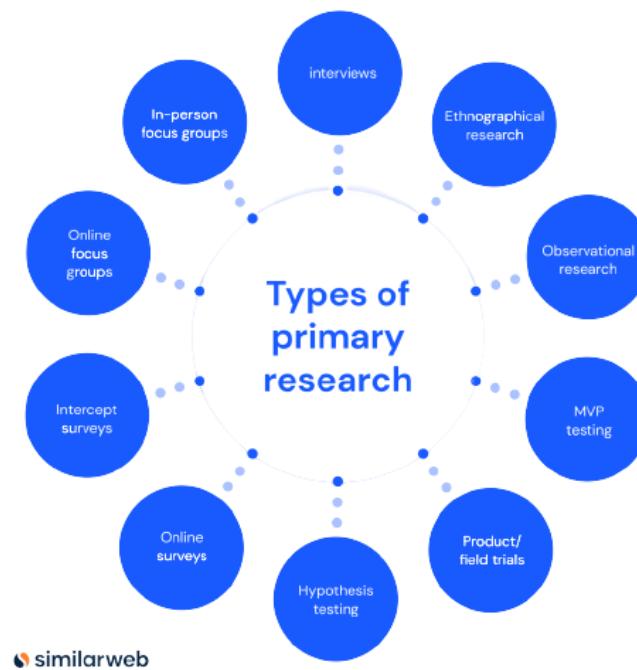


Figure 5: Types of Primary Research

✓ **Interviews (telephone or face-to-face)**

Conducting interviews is a qualitative research method to collect statistics and has been a popular approach for ages. These interviews can be carried out in person (face-to-face) or over the cellphone. Interviews are open-ended method which entails dialogues or interplay among interviewer (researcher) and interviewee (respondent).

✓ **Surveys (online or mail)**

As soon as carried out with pen and paper, surveys have come in an extended manner for the reason that then. Nowadays, maximum researchers use online surveys to send it to respondents to gather facts from them. Online surveys are convenient and may be dispatched via email or can be stuffed out online. Those can be accessed on handheld devices like telephones, tablets, iPad, and similar gadgets.

✓ **Focus groups.**

This popular research technique is used to collect statistics from a small institution of human beings, typically restrained to six-10. awareness institution brings together individuals who are specialists in the subject count number, for which studies is being conducted.

Focus institution has a moderator who stimulates discussions with many of the members to get extra insights. organizations and agencies can make use of this technique, mainly to become aware of area of interest market to find out about a specific group of clients.

✓ **Observation**

Observation as a number one studies approach happens anywhere a person establishes a particular set of criteria, capabilities, or traits after which examines something for the ones traits or features

#### 4.1.2 Merits/ Demerits of Types of Primary Research

Type	Merits	Demerits
Interviews	<ul style="list-style-type: none"> <li>○ Ability to locate the proper candidate</li> <li>○ Enables precise assessment</li> <li>○ Great Source of information</li> <li>○ Identify Knowledge</li> <li>○ Understanding stakeholders better</li> </ul>	<ul style="list-style-type: none"> <li>○ Fairly time-consuming</li> <li>○ Chance of personal bias</li> <li>○ Quick to choose</li> <li>○ Can easily shape stereotypes</li> <li>○ Hard to affirm the truth</li> </ul>
Surveys	<ul style="list-style-type: none"> <li>○ Relatively easy to manage</li> <li>○ Can be evolved in much less time (as compared to different statistics-series methods)</li> <li>○ Cost-effective, however cost depends on survey mode</li> <li>○ Can be administered remotely through on line, mobile devices, mail, email, kiosk, or smartphone.</li> <li>○ Carried out remotely can reduce or save you geographical dependence</li> </ul>	<ul style="list-style-type: none"> <li>○ Respondents won't feel advocated to offer accurate, sincere solutions</li> <li>○ Respondents won't feel secure offering solutions that gift themselves in a destructive way.</li> <li>○ Respondents may not be completely aware of their motives for any given solution due to loss of memory on the situation, or maybe boredom.</li> <li>○ Surveys with closed-ended questions may also have a decrease validity rate than different query kinds.</li> </ul>
Focus Groups	<ul style="list-style-type: none"> <li>○ Insightful data</li> <li>○ Frame language observations</li> <li>○ Low prices</li> <li>○ Emotional connections</li> </ul>	<ul style="list-style-type: none"> <li>○ Time-consuming evaluation</li> <li>○ Participants are shy</li> <li>○ Individuals are willing to present records</li> <li>○ Difficulty in enticing a massive institution</li> </ul>
Observation	<ul style="list-style-type: none"> <li>○ View operations of a software as they're simply occurring</li> <li>○ Can adapt to occasions as they arise</li> </ul>	<ul style="list-style-type: none"> <li>○ An be hard to interpret seen behaviors</li> <li>○ Can be complicated to categorize observations</li> <li>○ Can have an effect on behaviors of software participants</li> </ul>

- Can be highly-priced

## 4.2 Secondary Research

Secondary research entails the summary, collation, and/or synthesis of the present research. Secondary research is contrasted with number-one research in that number-one studies involve the era of information, whereas secondary research uses primary research assets as a supply of records for analysis. An excellent marker of primary research is the inclusion of a "strategies" segment, wherein the authors describe how the statistics were generated.

### 4.2.1 Types of Secondary Research

#### ✓ Static Analysis

There is sufficient data available online from a ramification of sources, often within the shape of datasets. These datasets are often open-supply or downloadable at a low price, and are perfect for undertaking statistical analyses inclusive of speculation trying out or regression evaluation.

Credible assets for current statistics consist of:

- The government
- Government companies
- Non-governmental corporations
- Instructional institutions
- Businesses or consultancies
- Libraries or data
- Newspapers, educational journals, or magazines

✓ **Case Study**

A case observe is an in depth have a look at of a selected concern. It is also qualitative in nature and may recognition on a person, group, area, event, business enterprise, or phenomenon. A case looks at is a splendid manner to utilize current studies to gain concrete, contextual, and in-depth expertise approximately your real-international problem.

You could pick out to attention on simply one complicated case, exploring a unmarried issue in exceptional element, or observe multiple instances in case you'd prefer to compare special aspects of your subject matter. Preexisting interviews, observational research, or different resources of primary records make for extremely good case research.

✓ **Literature Review**

A literature evaluation is a survey of preexisting scholarly sources in your subject matter. It provides an outline of current information, allowing you to discover relevant issues, debates, and gaps inside the studies you analyze. You may later practice those in your very own work, or use them as a leaping-off factor to conduct number one research of your very own.

Based just like a normal instructional paper (with a clear creation, body, and conclusion), a literature overview is an outstanding manner to evaluate the contemporary nation of studies and exhibit your information of the scholarly debates around your topic.

✓ **Content Analysis**

Content analysis is a research approach that studies styles in recorded conversation with the aid of making use of current texts. It is able to be

either quantitative or qualitative in nature, relying on whether you pick out to analyze countable or measurable patterns or greater interpretive ones. Content evaluation is famous in communique studies, but it's also widely utilized in historic evaluation, anthropology, and psychology to make extra semantic qualitative inferences.

#### **4.2.2 Sources of data**

Data sources are truly information collection. It has two components of grant as inner and external resources. Data gathered from inner sources is known as primary records and information gathered from external resources is called secondary facts. The data sources are really indicated in the discern under.

- Public Library
- Online Material
- Gov/Non-gov agencies
- Commercial Sources
- Magazines
- Newspaper
- Journals
- Articles, etc.

#### **4.2.3 Merits/ Demerits of Secondary Research**

Merits	Demerits
<ul style="list-style-type: none"><li>○ Secondary facts could be very easy to source and effectively to be had.</li><li>○ It is also often loose or accessible thru your academic institution's library or network, making it lots inexpensive to behavior than primary studies.</li><li>○ As you are relying on research that already exists, undertaking secondary research is a great deal much less time eating than</li></ul>	<ul style="list-style-type: none"><li>○ Ease of get entry to does no longer characterize credibility. It's critical to be conscious that secondary research isn't always continually reliable, and may regularly be obsolete. It's critical to analyze any statistics you're considering the usage of prior to getting began, using a technique just like the CRAAP take a look at.</li></ul>

<p>primary studies. Since your timeline is a lot shorter, your research can be ready to publish sooner.</p> <ul style="list-style-type: none"> <li>○ The usage of information from others allows you to expose reproducibility and replicability, bolstering prior research and situating your own work within your area.</li> </ul>	<ul style="list-style-type: none"> <li>○ Secondary studies regularly is predicated on primary studies already performed. If this original studies is biased in any way, the ones research biases ought to creep into the secondary results.</li> </ul>
--	--

## 5. Research Approaches

There are three key approaches that are commonly used in research and they are:

### 5.1 Quantitative Research

#### 5.1.1 Quantitative Research Methodology

The quantitative research method is employed whilst the data being accrued is quantifiable and may be used to perform mathematical, statistical, or computational techniques. a few normally used quantitative methods of information series are surveys, online polls, and questionnaires.

A few characteristics of quantitative research are

- Quantitative Data
- Closes-Ended Questions
- Large Sample Size
- High External Validity

### **5.1.2 Merits/Demerits of Quantitative Research**

Merits	Demerits
<ul style="list-style-type: none"><li>• Can be tested and checked</li><li>• Straightforward analysis</li><li>• Prestige</li></ul>	<ul style="list-style-type: none"><li>• False focus on numbers</li><li>• Difficulty setting up a research</li><li>• Can be misleading</li></ul>

## **5.2 Qualitative Research**

### **5.2.1 Qualitative Research Methodology**

Qualitative research generally deals with textual records and focuses on words and meanings. When the usage of this methodology, statistics is accrued using open-ended and conversational conversation. Qualitative studies are frequently used in market research as businesses no longer only want to recognize what customers are doing but why they're doing it. This allows them to get a comprehensive know-how of their target market so that powerful advertising strategies may be carried out.

A few characteristics of qualitative research are;

- Open-Ended Questions
- Complex Reasoning

### 5.2.2 Types of Qualitative Research Methods



Figure 6: Types of Qualitative Research Methods

### 5.2.3 Merits/Demerits of Qualitative Research

Merits	Demerits
<ul style="list-style-type: none"><li>Possible to understand attitudes</li><li>Content Generator</li><li>Save Money</li></ul>	<ul style="list-style-type: none"><li>Not a statistically representative form of data collection</li><li>Relies upon the experience of the researchers</li></ul>

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Can provide insights that are specific to an industry</li> <li>• Allows creativity to be a driving force</li> <li>• Open- ended</li> <li>• Incorporates the human experience</li> </ul> | <ul style="list-style-type: none"> <li>• Can lose data</li> <li>• It may require multiple sessions</li> <li>• Can be difficult to replicate results</li> <li>• Can create misleading conclusions</li> <li>• Can be influenced by researcher bias</li> </ul> |
|--|---|

### **5.3 Mixed Methods Approach**

As the name suggests, the blended method approach uses elements of both, the quantitative research method and the qualitative studies methodology. Through combining the two, the blended-methods method helps produce a extra complete and holistic photo than a quantitative or qualitative study in my opinion

## **6. Research Design**

### **6.1 Saunders Research Onion Theory**

Saunders' (2007) research Onion – what is it? At the handiest level, Saunders' research onion describes the distinct selections you'll want to make whilst growing a studies method – whether or not this is for your dissertation, thesis or some other formal research challenge.

## 6.2 Compare among research methods and research approaches

### 6.2.1 Comparison of data Approaches

	Quantitative Research	Qualitative Research	Mixed Research
Nature of data	Variables	Words, Images, categories, patterns	A mix of variables, words, images
Data Analysis	Statistical relationship	Search for patterns, themes and holistic features	Quantitative symptoms and qualitative support
Results	Generalizing	Particularistic finding representation of insider	Corroborated findings may generalize
Final Report Form	Statistical report	Narrative even with direct quotations of research participants	Eclectic and pragmatic

Conclusion: Choose the best approach and write the reason for choice.

### 6.2.2 Comparison among primary methods:

Survey	Interview	Focus group	Observation
Surveys are a cost-powerful approach of sampling a massive institution of	An interview is a qualitative research technique used to accumulate primary	A focus group is a research method that brings collectively a small group of	Primary data are original observations amassed by way of the researcher or

human beings. They involve a series of smooth to answer questions which can be generally multiple desire. This permits quantitative statistics to be accrued and analysed with the aid of the researcher.	statistics. It includes asking one or more humans approximately their opinions on a organization, a product, or a topic.	humans to answer questions in a moderated putting. The institution is chosen due to predefined demographic tendencies, and the questions are designed to shed mild on a topic of hobby. It's far considered one of 4 forms of interviews	via his agent for the first time for any research and it's miles series of records from first hand data. This type of primary data is generally pure and authentic data.
---	--	--	--

### **Conclusion:**

According to my point of view the best primary method is survey because this is a e commerce online shopping site. eCommerce companies have lots to find out about their customers' desires, requirements, and motivation to shop for, which maintain various. The outcomes from the survey can assist in optimizing the website, improving the shopping enjoy, changing business techniques, etc.

#### **▫ Helps with data collection**

On line shopping surveys are incredible for collecting information about clients, their motivations, shopping conduct, necessities, and so forth. You'll get to recognize approximately their demanding situations, experiences, and possibilities. You could accumulate data in actual-time using which you may make immediate changes for your commercial enterprise.

#### **▫ Better Customer Experience**

While a customer buys from you one time and never stores from you again, you will never know what took place. Carrying out a survey as soon as they shop from you or a few months when they use your service is a super way to find out in the event that they were disillusioned with whatever. You may take remediation steps at once to address them. It would work in your desire as they'll be thrilled which you solved the frictions that they faced whilst shopping. They could even recant on their choice of no longer purchasing from you once more.

- **Helps to improve market strategy**

Can use the information gathered from the web shopping survey to understand in case your marketing strategy is on point. If you get to realize that a majority of your goal marketplace is on Instagram, via the survey, there's your cue to trade your approach. You'll have a better expertise of your customers. It's going to additionally help you create content material for every section so you hit the proper nerves.

### **6.2.3 Comparison of secondary methods**

LR/document analysis	Grounded Theory	Case Study	Ethnography
Secondary literature includes interpretations and opinions that are derived from or confer with the primary supply literature. Examples consist of evaluate articles (including meta-evaluation and systematic opinions) and reference works  Document analysis is a shape of qualitative	Grounded theory is well utilised in qualitative research for building theoretical know-how of complicated social techniques. Grounded idea facts analysis strategies can	The researchers describe the analysis of secondary case research as the usage of existing case studies so one can cope with a research query that is consistent with, however differs from the	Ethnographic methods are a research approach wherein you have a look at humans in their cultural setting, with the purpose of producing a narrative account of that particular way

<p>research in which files are interpreted with the aid of the researcher/assessor to give voice and that means round an assessment subject matter. Analyzing documents consists of coding content into issues, just like how attention institution or interview transcripts are analyzed.</p>	<p>be used with specific forms of facts, along with secondary information</p>	<p>motive of the unique case have a look at [14]. the selected cases offered evidence based totally on actual commercial enterprise experiences.</p>	<p>of life, against a theoretical backdrop</p>
--	---	--	--

## **Conclusion**

According to my point of view the best secondary method is document analysis because document analysis is useful for information coverage content material across time and geographies, documenting procedures, triangulating with interviews and other resources of data, know-how how records and thoughts are provided officially, and know-how problem framing, amongst other purposes.

## **7. Research Conduct and Analysis**

### **7.1 Conduct Primary Research**

**Survey:** complete process of conducting survey:

- a) Consider costs, access and ethical issues

Survey Considerations	Description
<b>Cost</b>	Google Form is open-source tool to create the survey form. The participants only need to use the internet to participate in surveys.
<b>Access</b>	Can access in anywhere internet access.

<b>Ethical</b>	Make sure that the participants agree the consent to do the surveys. All the data are kept as confidential.
----------------	---

**b) Objective of survey**

To comprehend by researching Jumpstart Pain points during COVID 19 and to be aware of the actual or full requirements for the deaired solution

**c) Identify the tool**

I've determined to generate the survey using google forms due to the fact Google paperwork is a survey management software program protected as part of the unfastened, web-based totally Google docs Editors suite offered with the aid of Google. The service additionally consists of Google docs, Google Sheets, Google Slides, Google Drawings, Google websites, and Google preserve. Google paperwork is simplest to be had as an internet application

d) **Frame question** for survey:

✓ **Pre-Survey -**

[https://docs.google.com/forms/d/e/1FAIpQLSdno9tTIEts08HpTyMo\\_VTV7PAh0pFvRDQ1JZv80So1SWarfA/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSdno9tTIEts08HpTyMo_VTV7PAh0pFvRDQ1JZv80So1SWarfA/viewform?usp=sf_link)

The screenshot shows a Google Form titled "Jumpstart Online Shopping". The title is displayed in a large, stylized orange font with a yellow outline, set against a background of various school-related icons like books, a globe, and a calculator. Below the title, the form has a green header bar with the title again. The main content area contains three questions with radio button options:

- Name \***  
Short-answer text
- Are you aware of online shopping? \***  
 Yes  
 No  
 Little Bit
- Do you shop online? \***  
 Yes  
 No
- How frequently do you purchase things online?**  
 Once in a month  
 Twice or five times in a month  
 More than five times in a month  
 Once in a year  
 Never

Figure 7: Jumpstart Pre Survey

Why do you prefer online shopping? (choose as many as applicable)

- Security
- Time
- Home Delivery
- Flexibility of price
- Wide Range of choices
- Fun doing shopping on web
- Other

If you do not purchase things online why? (choose as many as applicable)

- Shipping expenses
- Using your credit card
- It is difficult to shop online
- I do not find what I look for
- Waiting for the item to arrive
- I do not trust online shopping
- I do not receive what I pay for
- Other

What would be your best payment method if you buy online?

- Credit Card
- Bank Transfer
- Cash on Delivery
- EashPay
- Other

Would you like the latest online shopping experience from jumpstart?

- Yes
- No

Your suggestions and recommendations for us

Long-answer text

✓ **Collect and analyze results – Pre-Survey**

Name  
4 responses

Chathu Jayarathna  
Mesandi Yuhansa  
Nethu Akarsha  
Leo Ashley

Are you aware of online shopping?  
4 responses

Copy

Response	Percentage
Yes	50%
No	25%
Little Bit	25%

Do you shop online?  
4 responses

Copy

Response	Percentage
Yes	75%
No	25%

How frequently do you purchase things online?  
4 responses

Copy

Frequency	Percentage
Once in a month	25%
Twice or five times in a month	25%
More than five times in a month	25%
Once in a year	25%

Why do you prefer online shopping? (choose as many as applicable) [Copy](#)

4 responses

Reason	Count	Percentage
Security	2	50%
Time	1	25%
Home Delivery	2	50%
Flexibility of price	3	75%
Wide Range of choices	2	50%
Fun doing shopping on web	3	75%
Other	1	25%

If you do not purchase things online why? (choose as many as applicable) [Copy](#)

4 responses

Reason	Count	Percentage
Shipping expenses	1	25%
Using your credit card	3	75%
It is difficult to shop online	1	25%
I do not find what I look for	2	50%
Waiting for the item to arrive	3	75%
I do not trust online shopping	3	75%
I do not receive what I pay for	1	25%
Other	0	0%

What would be your best payment method if you buy online? [Copy](#)

4 responses

Payment Method	Percentage
Credit Card	25%
Bank Transfer	25%
Cash on Delivery	25%
EashPay	25%
Other	0%

Would you like the latest online shopping experience from jumpstart? [Copy](#)

4 responses

Response	Percentage
Yes	75%
No	25%

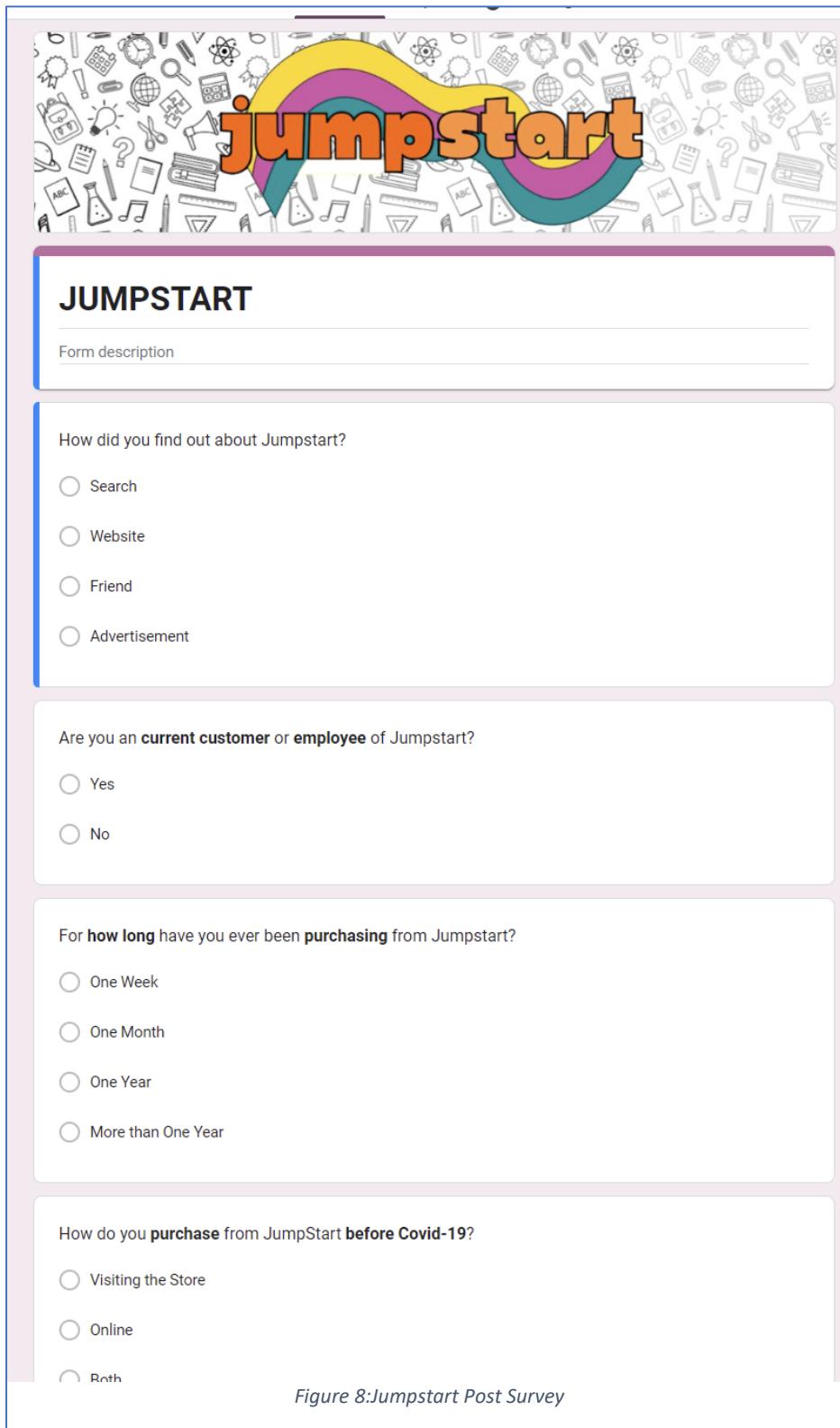
Your suggestions and recommendations for us [Copy](#)

4 responses

- Create Speed site
- Customers should be able to easily navigate an organization's website
- I don't have any suggestions and recommendations
- Don't underestimate the power of high quality photographs of products, says Mira Rusek, user experience designer, Usability Matters, a user experience studio

✓ **Post survey**

[https://docs.google.com/forms/d/e/1FAIpQLSdl1Go5RJuW44-q5eulcIFoTiALIkGCkpFzQkcC8XASWFtAWw/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSdl1Go5RJuW44-q5eulcIFoTiALIkGCkpFzQkcC8XASWFtAWw/viewform?usp=sf_link)



The image shows a Google Form titled "JUMPSTART". The form has a decorative header featuring a rainbow and various school-related icons like books, pencils, and a megaphone. The main content is organized into four sections:

- Section 1:** Question: "How did you find out about Jumpstart?"  
Options:  Search,  Website,  Friend,  Advertisement.
- Section 2:** Question: "Are you an **current customer** or **employee** of Jumpstart?"  
Options:  Yes,  No.
- Section 3:** Question: "For **how long** have you ever been **purchasing** from Jumpstart?"  
Options:  One Week,  One Month,  One Year,  More than One Year.
- Section 4:** Question: "How do you **purchase** from JumpStart **before Covid-19**?"  
Options:  Visiting the Store,  Online,  Both.

Figure 8:Jumpstart Post Survey

How frequently do you **visit the store in pre-covid?**

- Daily
- Weekly
- Monthly
- Other

How frequently do you visit the store during -covid?

- Daily
- Weekly
- Monthly
- Other

How long did you wait for the service during covid?

- Immediate Service
- Less than 5 hours
- 3 to 6 hours
- More than 1 day

How would you rate the staff?

1      2      3      4      5

Very Satisfied

Very Unsatisfied

Overall, How **satisfied** were you with the jumpstart **service**?

- Very Satisfied
- Satisfied
- Neutral
- Unsatisfied
- Very Unsatisfied

Please rate the speed of our new service website?

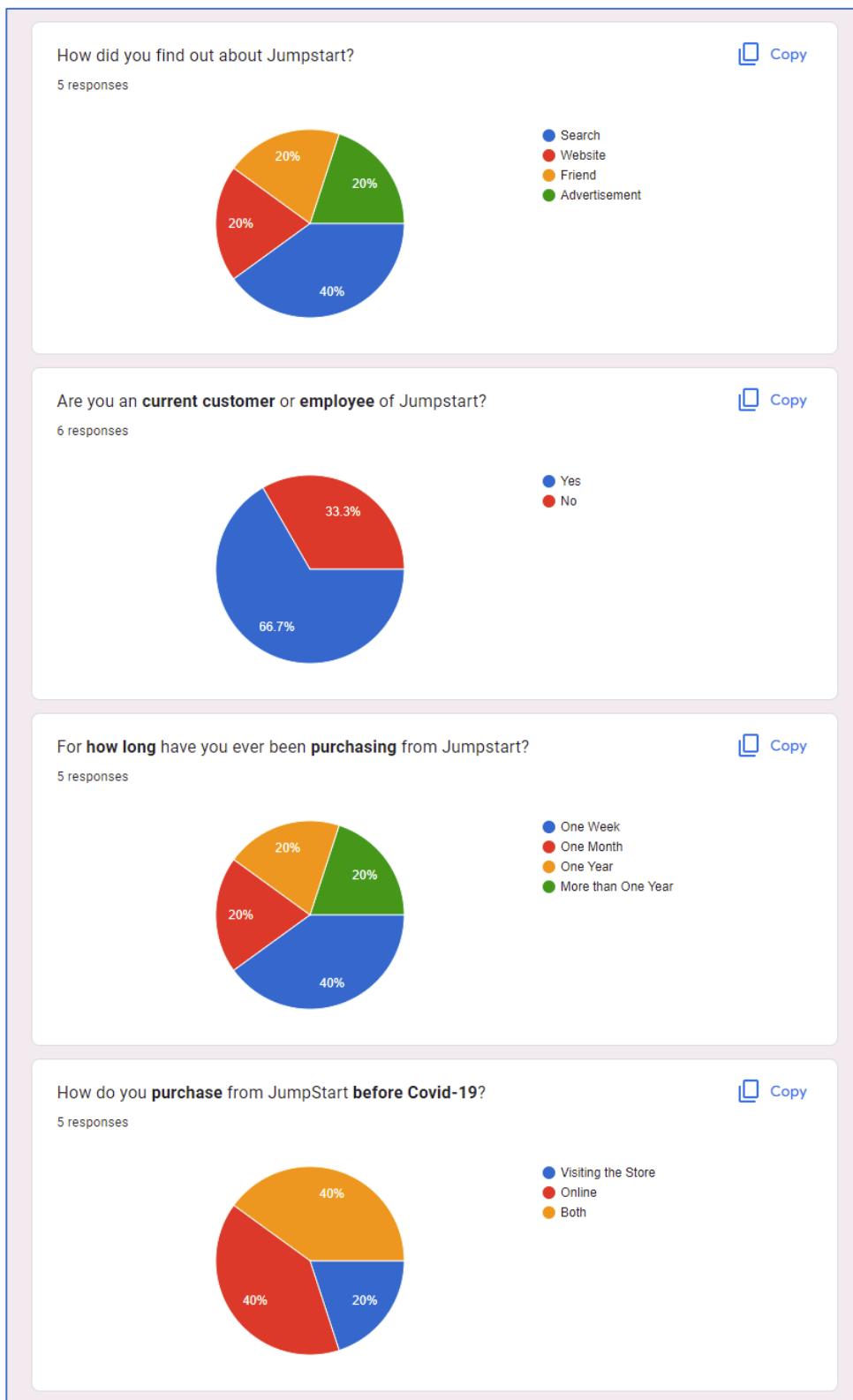
1      2      3      4      5

Very Slow

Very Fast

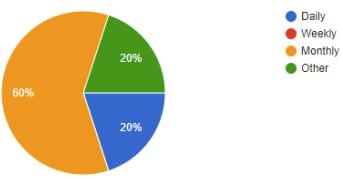
✓ **Collect and analyze results – post-survey**



How frequently do you visit the store in pre-covid?

5 responses

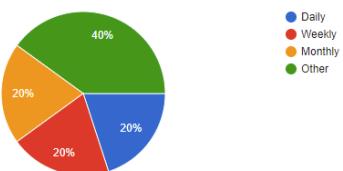
[Copy](#)



How frequently do you visit the store during -covid?

5 responses

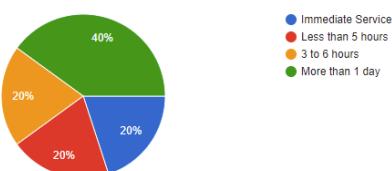
[Copy](#)



How long did you wait for the service during covid?

5 responses

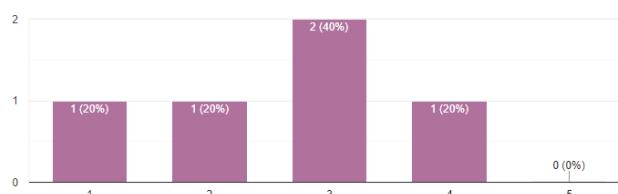
[Copy](#)



How would you rate the staff?

5 responses

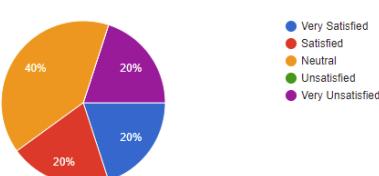
[Copy](#)



Overall, How **satisfied** were you with the jumpstart **service**?

5 responses

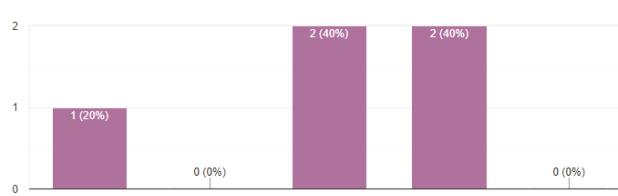
[Copy](#)



Please rate the speed of our new service website?

5 responses

[Copy](#)



## **Conclusion:**

According to the results to the aforementioned poll, the majority of those human beings were the Jumpstart retail device for one or two year and visit Jumpstart stores surely every week. Lots of them decide upon not to physically depart their houses and travel to the market in this difficult situation. Some of them have formerly employed an appointment machine, whilst others have not. However, based on their enter, the hired e commerce system have safety and compatibility problems

### **7.2 Conduct Secondary research (Identify Tools and techniques):**

The issues in Jumpstart can be resolved with the use of Increasing operational efficiency. Increasing operational efficiency may help the startup website technical aspects in certain ways. The projects goal is to provide Jumpstart with the best solution for their issues with remote working and design an E commerce system as a real solution. So by utilizing e commerce we can accomplish these goals and objectives. The scope of E commerce is buying and selling, advertising, servicing delivery and charge of products, carrier and information over net, intranets, extranets and other networks, between an inter-networked company and its potentialities, customers suppliers and different commercial enterprise companions and developing an improved e commerce site for the Jumpstart retail system website using Figma. Figma is a Figma is a collaborative web application for interface design, with additional offline features enabled by desktop applications for macOS and Windows.

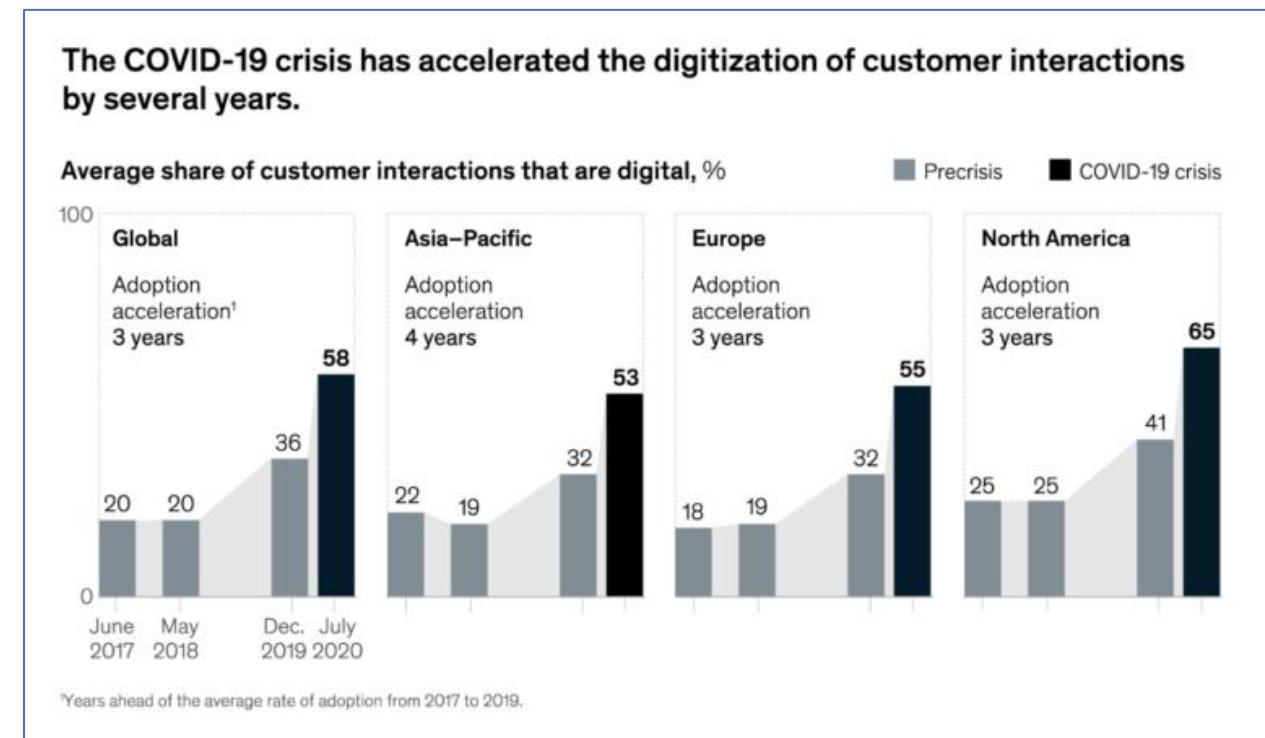
LR/Case study Considerations	Description
Cost	No cost / Open source
Access	Online Access
Ethical	Very much detailed and takes lots of time

**a) Content analysis**

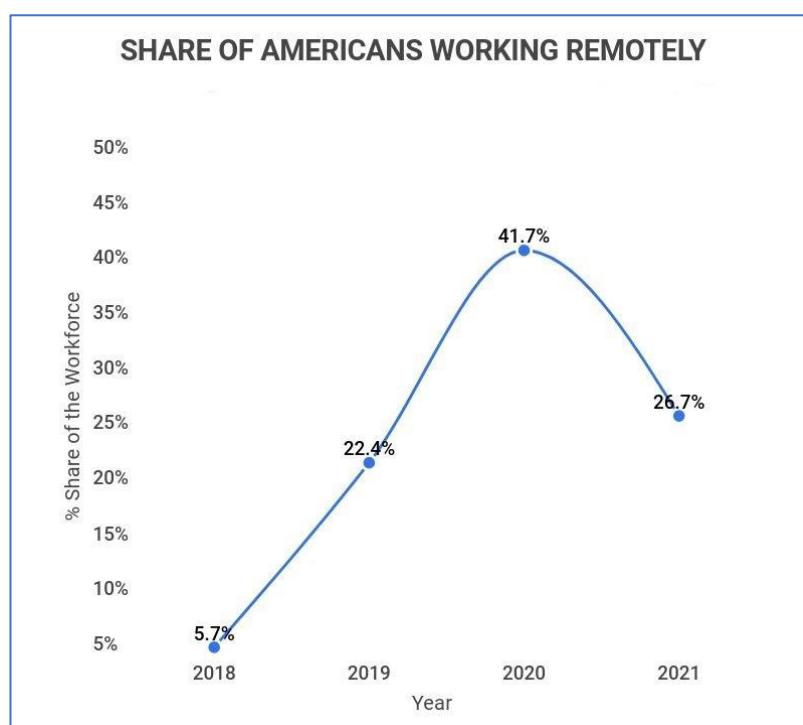
S. N o.	Title	Reference Link	Outcomes
	Sunder's Onion Theory	<a href="https://thesismind.com/analysis-of-saunders-research-onion/">https://thesismind.com/analysis-of-saunders-research-onion/</a>	Understand about what are the layers of sunder's onion theory and how to use it
	Case Study	<a href="https://www.bloomreach.com/en/blog/2019/ecommerce-case-studies">https://www.bloomreach.com/en/blog/2019/ecommerce-case-studies</a>	General knowledge about the case study and how is it done
	Digital Transformation	<a href="https://egfound.org/projects/digital-revolution-technology-power-you/?gclid=CjwKCAjwzuqBhAcEiwAdj5dRvegY5GhoMxTouwHtEV9iHvazOVQEEODe7Blke372V6bM7PY1QqqmhoCFV8QAvD_BwE">https://egfound.org/projects/digital-revolution-technology-power-you/?gclid=CjwKCAjwzuqBhAcEiwAdj5dRvegY5GhoMxTouwHtEV9iHvazOVQEEODe7Blke372V6bM7PY1QqqmhoCFV8QAvD_BwE</a>	Get an idea about what is the digital transformation and hoe can use it for our project
	Cart System	<a href="https://www.cs-cart.com/shopping-cart-system.html">https://www.cs-cart.com/shopping-cart-system.html</a>	Good idea about what is a cart system and how is it works
	Quantitative vs Qualitative	<a href="https://www.financestrategists.com/wealth-management/fundamental-vs-technical-analysis/quantitative-analysis/?gclid=CjwKCAjwzuqgBhAcEiwAdj5dRppZQIAWtWPqjo_i8Y7ObLX_6wayaEgKa1nELnksdjXmKXXaF5gfBoCneMQAvD_BwE">https://www.financestrategists.com/wealth-management/fundamental-vs-technical-analysis/quantitative-analysis/?gclid=CjwKCAjwzuqgBhAcEiwAdj5dRppZQIAWtWPqjo_i8Y7ObLX_6wayaEgKa1nELnksdjXmKXXaF5gfBoCneMQAvD_BwE</a>	A good comparison of qualitative and quantitative methods and analyses of them
	Research Methods	<a href="https://guides.lib.vt.edu/researchmethods/design-method">https://guides.lib.vt.edu/researchmethods/design-method</a>	Understand about the research methods and how they are important in this project

## b) Trend analysis

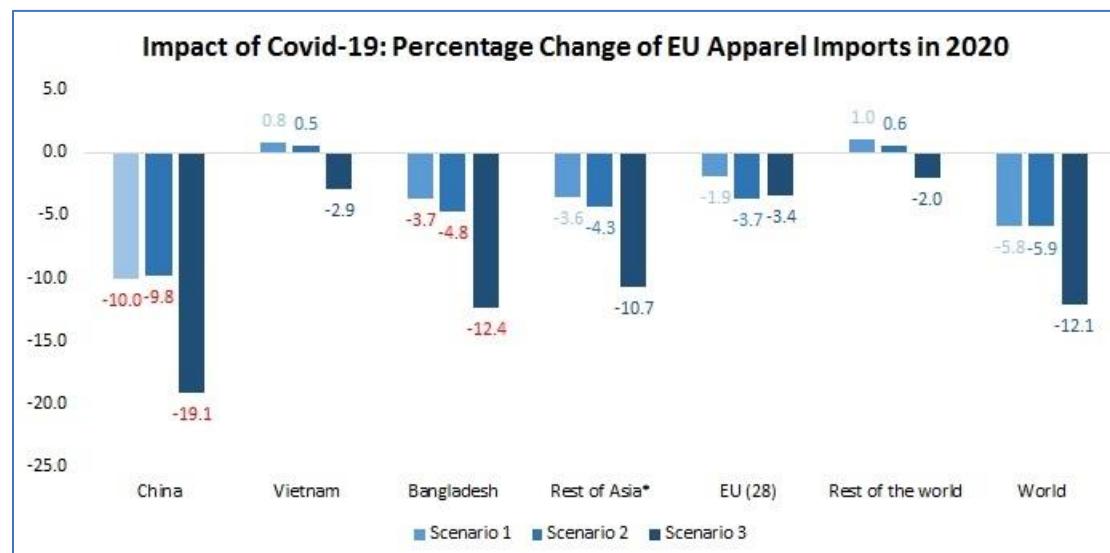
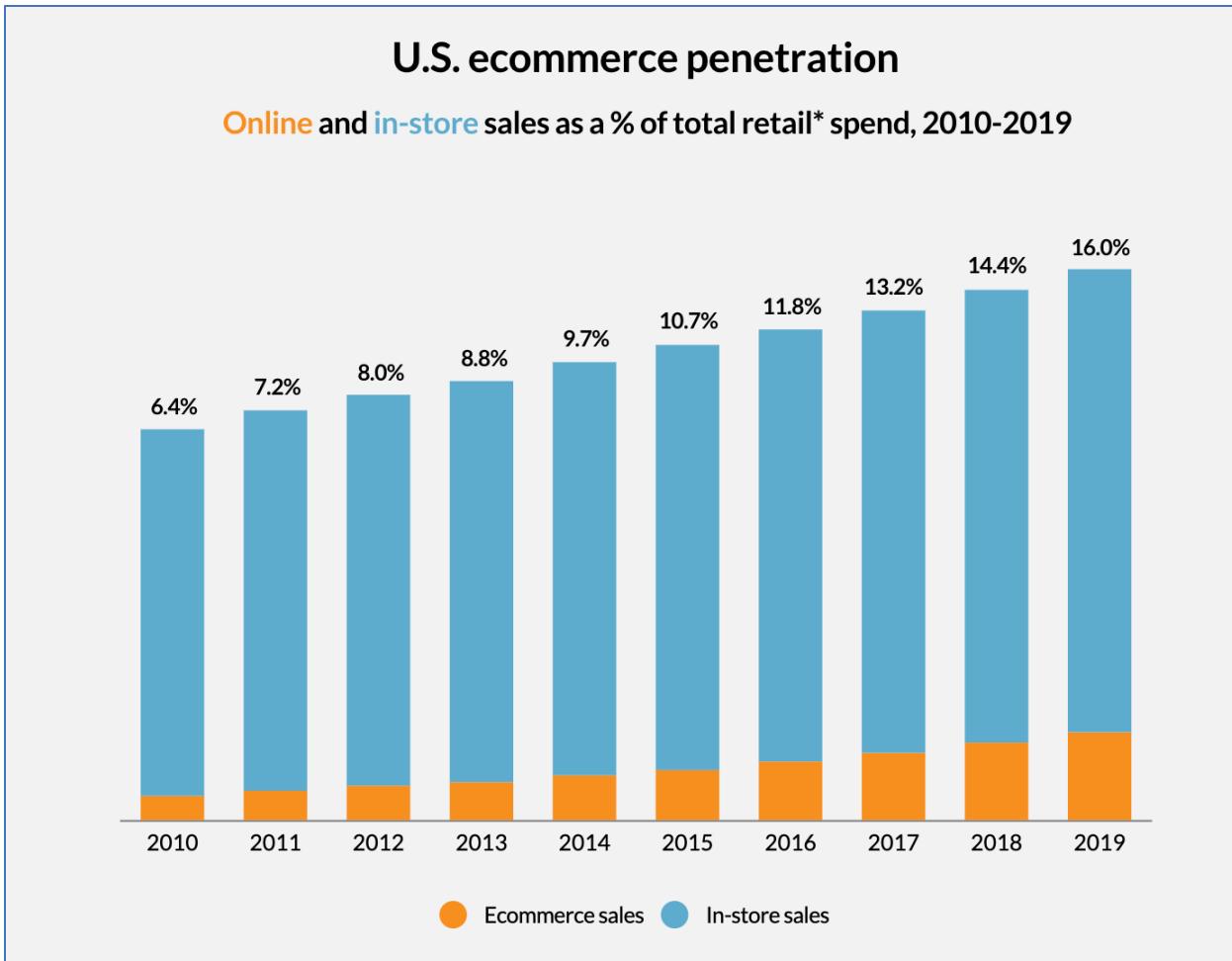
Referring to the analysis of data gathered on various retail business developments and effects in the pre- during and after COVID 19



## Analysis of remote working before and after covid19



## Analysis of retail stores working during past days



## Project Part (Part II)

## 8. Project Proposal

<b>Research Proposal Form</b>	
<b>Student name:</b> Chathushi Jayarathna	
<b>Student ID:</b>	
<b>Centre name:</b> Lihan (JISC)	
<b>Mentor:</b> MS. Aravinder Kaur	
<b>Unit:</b> 13 Computing Research Project	
<b>Date:</b> 20/02/2023	
<b>PROPOSED TITLE:</b> E-Commerce	
<b>Section One: Objective, responsibilities</b>	
<b>Objectives</b>	
<ul style="list-style-type: none"><li>• Manage Online Selling Costs in A Strategic Way</li><li>• Establish Deeper Business Relationships</li><li>• Provide a Unique Customer Experience</li><li>• Improve Customer Loyalty</li><li>• Identify the Right Target Audience</li><li>• Increase the pace of operation of Jumpstart</li></ul>	
<b>Responsibilities</b>	
<ul style="list-style-type: none"><li>• Designing and applying appropriate project control standards</li><li>• Discover the stakeholder list</li><li>• Become aware of project goals and objectives</li><li>• Handling the production of the specified deliverables</li><li>• Making plans and tracking the project</li><li>• Adopting any delegation and use of project assurance roles within agreed reporting structures</li><li>• Making ready and keeping project, stage, and exception plans as required</li><li>• Handling project risks, which includes the improvement of contingency plans</li><li>• Monitoring overall progress and use of sources, initiating corrective action in which important</li><li>• Making use of trade management and configuration control procedures</li><li>• Retaining an awareness of capability interdependencies with other initiatives and their effect</li><li>• Adopting and applying suitable technical and quality strategies and standards</li><li>• Figuring out and acquiring support and recommendation required for the control, making plans and control of the project</li><li>• Managing task management</li><li>• Conducting a project evaluation evaluate to assess how properly the project was managed</li><li>• Preparing any observe-on action recommendations</li></ul>	
<b>Section Two: Reasons for choosing this research project</b>	
<b>Enlist Assumptions</b>	

### **Budget Assumptions**

- The overall cost of everyday operations will stay unchanged
- The whole price range of the project will no longer exceed and may cover back the capital used.

### **Resources Assumptions**

- Team members may have expertise on Spring Framework, MySQL database
- All of the materials and equipment wished might be obtained and to be had for use when conducting the project
- Time frame can be planned and created based totally on WBS
- Every milestone could have its character issue and end date in the plan

### **Scope Assumptions**

- The client will offer all brand records in line with the dates detailed in the schedule
- Can use the modern business brand tips
- Can use the modern guidelines

### **Environment Assumptions**

- Will use the existing IT structure
- Can be able to get making plans permission in a timely way
- The facilities can be open at the weekend to permit the crew to do the project work
- The records were routinely updated inside the data inventory, and all statistics within the information stock is synchronized.

### **Need of Solution:**

- Conduct assumption analysis for the chance management making plans to come up with a backup plan if the real plan does now not paintings, such as the ways to manipulate the missing of materials which might be deemed vital for the task, hence lowering the threat which can have an effect on the performance of the project
- Always display all the resources and maintain track of the condition of the resources to make certain that the assets are inside the satisfactory circumstance
- Continually monitor and take a look at the situation of the resources (gadgets, materials, or tools)
- Design the fast-time period and lengthy-time period budgets to resource the formation of contracts where in this will typically preserve the overall undertaking value to be inside the budgeted value, therefore stopping the Project from being over the real finances.
- Supply the project following the scheduled timeline and attempt to reduce the impact if the timeline cannot be met by means of having a backup plan.

- Always discuss with the software development lifestyles Cycle (SDLC) when designing the software task
- Boost Sales
- Scalability

### Section Three: Literature sources searched

#### Journal article:

1. Jacks, T., 2021. Research on Remote Work in the Era of COVID-19. *Journal of Global Information Technology Management*, [online] 24(2), pp.93-97. Available at: <<https://www.tandfonline.com/doi/full/10.1080/1097198X.2021.1914500>> [Accessed 4 October 2021].
2. Anon, 2021. How can chatbots boost your digital transformation. Visor.ai. Available at: <https://www.visor.ai/chatbots-for-digital-transformation/> [Accessed March 14, 2022].
3. Brush, K. & Scardina, J., 2021. What is a chatbot and why is it important? SearchCustomerExperience. Available at: <https://www.techtarget.com/searchcustomerexperience/definition/chatbot#:~:text=A%20chatbot%20is%20a%20software,assistants%20to%20handle%20simple%20tasks>. [Accessed March 14, 2022].
4. Boogaard, K. (2020). *What Are Project Assumptions?* | Wrike. [online] www.wrike.com. Available at: <https://www.wrike.com/blog/what-are-project-assumptions/>.

### Section Four: Activities and timescales

Activities	Start Date	Finish Date
1. Gathered Information About Jumpstart	13/02/2023	13/02/2023
2. Performed Research	13/02/2023	13/02/2023
2.1 Case Studies Analysis	13/02/2023	13/02/2023
2.2 Survey for Background Analysis	14/02/2023	15/02/2023
3. Identify Research Proposal	15/02/2023	17/02/2023
4. Framed Research Proposal template	18/02/2023	20/02/2023

**Milestone one: Research Proposal****Target date (set by tutor): 20/02/2023****Milestone two: Project Implementation****Target date (set by tutor):****✳ Primary Research**

Primary research is defined as a technique utilized by researchers to collect records at once, in preference to depending on statistics accumulated from previously finished research. Technically, they "own" the facts. Primary research is only completed to deal with certain trouble, which requires in-depth analysis

**> Types of Primary Research**

- Interviews (telephone or face-to-face)
- Surveys (online or mail)
- Questionnaires (online or by mail)
- Focus groups.
- Visits to competitors' locations.

**> Selected Primary research technique****• Survey**

Collecting data from a predefined institution of respondents to gain information and insights into numerous subjects of interest

**✳ Secondary Research**

Secondary research entails the summary, collation, and/or synthesis of the present research. Secondary research is contrasted with number-one research in that number-one studies involve the era of information, whereas secondary research uses primary research assets as a supply of records for analysis. An excellent marker of primary research is the inclusion of a "strategies" segment, wherein the authors describe how the statistics were generated.

**> Types of Secondary Research**

- Case Study
- Literature Review

- Quantitative Research
  - Published books and articles
- **Selected Secondary Research Technique**
- **Published books and articles**  
Many books reference primary-source materials, along with an analysis from the author.
  - **Case Study**  
Explore what are the standard user interface designs for the business enterprise solution
  - **Literature Review**  
Review on papers on remote working, increasing operational performance
  - **Quantitative Research**
    - Manage or manipulate an unbiased variable to measure its impact on a dependent variable
    - Ask questions of a group of people in-individual, over-the-telephone or online
    - Gather information that has been collected for other functions

**Comments and agreement from tutor:**

I confirm that the project is not work which has been or will be submitted for another qualification and is appropriate.

**Agreed:**

**Name:**

**Date:**

**Comments and agreement from project proposal checker (if applicable):**

I confirm that the project is appropriate.

**Agreed:**

**Name:**

**Date:**

## **8.1 Project Aim**

The aim of the assignment is to digitally automate the apparel save process in order that users can shop on-line every time from everywhere. Handling the database through the utility is easy and handy, saving time and resource

## **8.2 Objective**

- Manage Online Selling Costs in A Strategic Way
- Establish Deeper Business Relationships
- Provide a Unique Customer Experience
- Improve Customer Loyalty
- Identify the Right Target Audience
- Increase the pace of operation of Jumpstart

## **8.3 Responsibilities**

- Designing and applying appropriate project control standards
- Discover the stakeholder list
- Become aware of project goals and objectives
- Handling the production of the specified deliverables
- Making plans and tracking the project
- Adopting any delegation and use of project assurance roles within agreed reporting structures
- Making ready and keeping project, stage, and exception plans as required
- Handling project risks, which includes the improvement of contingency plans
- Monitoring overall progress and use of sources, initiating corrective action in which important

- Making use of trade management and configuration control procedures
- Retaining an awareness of capability interdependencies with other initiatives and their effect
- Adopting and applying suitable technical and quality strategies and standards
- Figuring out and acquiring support and recommendation required for the control, making plans and control of the project
- Managing task management
- Conducting a project evaluation evaluate to assess how properly the project was managed
- Preparing any observe-on action recommendations

#### **8.4 Scope**

The scope of this project includes the following:

- The implementation of a new software system
- Data migration from the old system to the new system
- User training and support
- System maintenance and upgrades
- Explain principles of problem management across its lifecycle.
- Use various tools, process and technologies to facilitate problem identification, investigation, analysis & resolution
- Explain various steps to investigate & diagnose problems.
- Prioritize & Categorize change requests.
- Prepare a solution to address the root cause of the problem.
- Document & monitor the problems
- Explain best practices in documenting problems

**Users should be able to perform the following functions in the portal**

- Register in the Portal
- Login to the Portal
- Post a product for Sale along with a Picture Upload
- Deactivate an Existing product
- Update their Profile after logging in.
- Add items to the cart
- View cart items

**Administrators should be able to perform the following functions in the portal**

- Register in the Portal
- Login to the portal
- View the List of Registered Users/partners
- Mark a User as Administrator
- Activate / Deactivate a product post
- Update their profile
- Transact the sales if the price is right

**Both Users & Administrator**

- Visit the Home Page
- View product Listing
- Search for a product by Name, Brand, Serial No & Price Range
- About Us Page
- Contact Us Page
- Terms & Conditions

**8.5 Project out of Scope**

- Upload the comments alternative and rating system to get the user's thoughts.
- Develop FAQ pages to remedy the issues frequently requested by the customers.

**8.6 Enlist Assumptions****✓ Budget Assumptions**

- The overall cost of everyday operations will stay unchanged

- The whole price range of the project will no longer exceed and may cover back the capital used.

✓ **Resources Assumptions**

- Team members may have expertise on Spring Framework, MySQL database
- All of the materials and equipment wished might be obtained and to be had for use when conducting the project
- Time frame can be planned and created based totally on WBS
- Every milestone could have its character issue and end date in the plan

✓ **Scope Assumptions**

- The client will offer all brand records in line with the dates detailed in the schedule
- Can use the modern business brand tips
- Can use the modern guidelines

✓ **Environment Assumptions**

- Will use the existing IT structure
- Can be able to get making plans permission in a timely way
- The facilities can be open at the weekend to permit the crew to do the project work
- The records were routinely updated inside the data inventory, and all statistics within the information stock is synchronized.

✓ **Need of Solution:**

- Conduct assumption analysis for the chance management making plans to come up with a backup plan if the real plan does now not paintings, such as the ways to manipulate the missing of materials which might be deemed vital for the task, hence lowering the threat which can have an effect on the performance of the project
- Always display all the resources and maintain track of the condition of the resources to make certain that the assets are inside the satisfactory circumstance
- Continually monitor and take a look at the situation of the resources (gadgets, materials, or tools)

- Design the fast-time period and lengthy-time period budgets to resource the formation of contracts where in this will typically preserve the overall undertaking value to be inside the budgeted value, therefore stopping the Project from being over the real finances.
- Supply the project following the scheduled timeline and attempt to reduce the impact if the timeline cannot be met by means of having a backup plan.
- Always discuss with the software development lifestyles Cycle (SDLC) when designing the software task
- Boost Sales
- Scalability

## **8.7 Project Environment**

### **✓ Hardware Requirements**

<b>No</b>	<b>Hardware</b>		
	<b>Type</b>	<b>Server</b>	<b>Client</b>
1	Processor	Intel(R) Core(TM) CPU@ 2.60GHz	Intel Core i5
2	Memory	32 GB	8 GB
3	Hard Drive	4 TB	1 TB
4	Network	SLT Fibre Network	SLT Fibre Network
5	Monitor	Monitor 24"	Monitor 24"
6	Keyboard	USB Keyboard	USB Keyboard
7	Mouse	USB Optical Mouse	USB Optical Mouse

### **✓ Software Requirements**

<b>No</b>	<b>Software</b>	<b>Functionality</b>
-----------	-----------------	----------------------

1	Windows 10	Operating System
2	Bootstrap, CSS, Spring Boot	Web Creation
3	MySQL	Database Server
4	Tomcat	Web Server
5	Axure	Design
6	Google Chrome, Microsoft Edge	Web Browser

### ✓ Network Requirements

No	Network Device	Functionality
1	Switch	Cable connecting network from workstation
2	UTP Cable	Connecting Medium
3	RJ 45 Connector	Cable connecting network with LAN Card

- Cloud Requirements

- AWS
- Azure

- Skills and Human Resources

No	Requirements	Skills
1	UI/UX Designer	Axure
2	Web Developer	HTML, CSS, JavaScript, Bootstrap, Spring Boot Java, MySQL.

## 8.8 Project Blueprint

### 8.8.1 Flow charts

- Admin

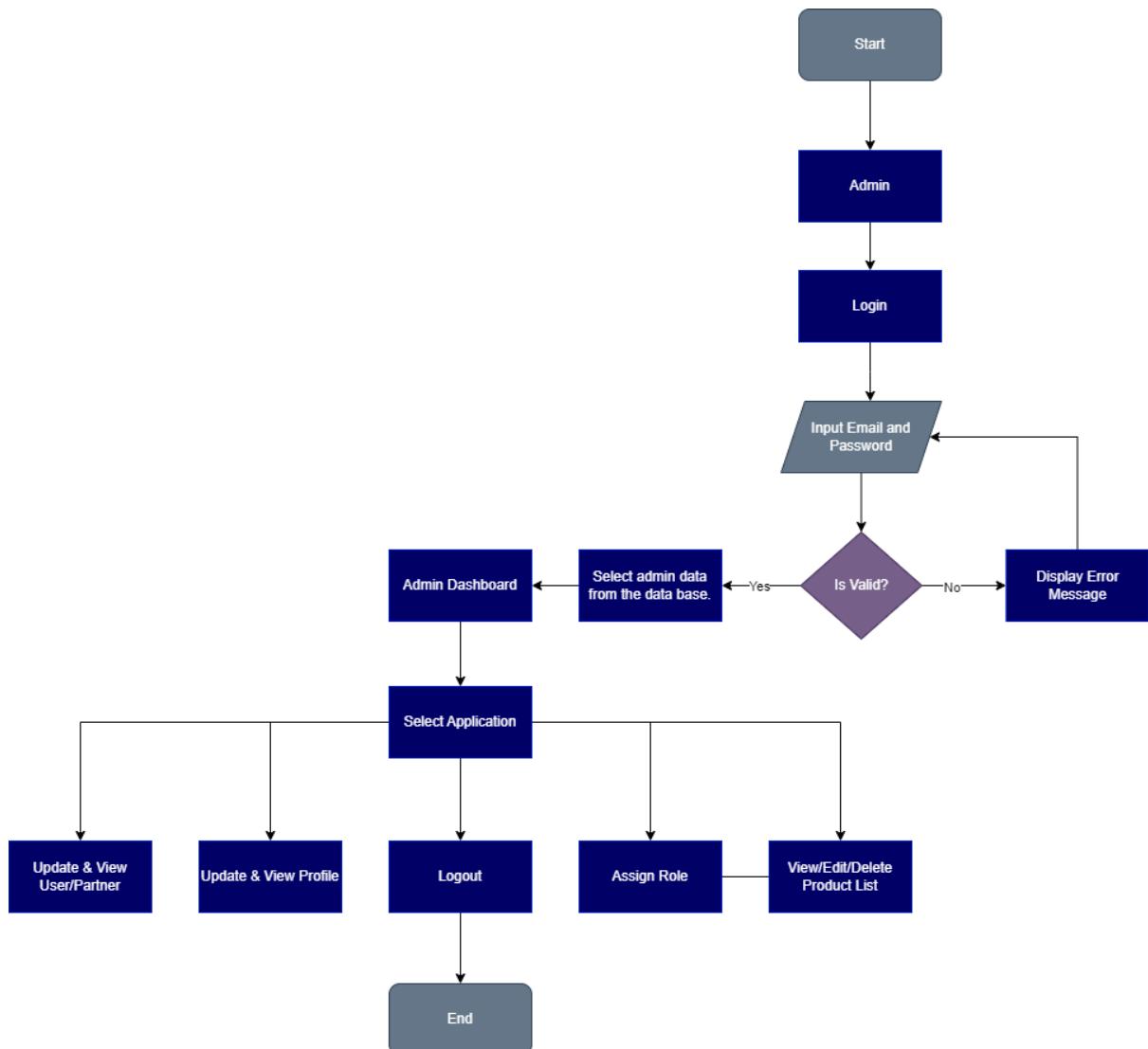


Figure 9: Flow Chart - Admin

- **Login**

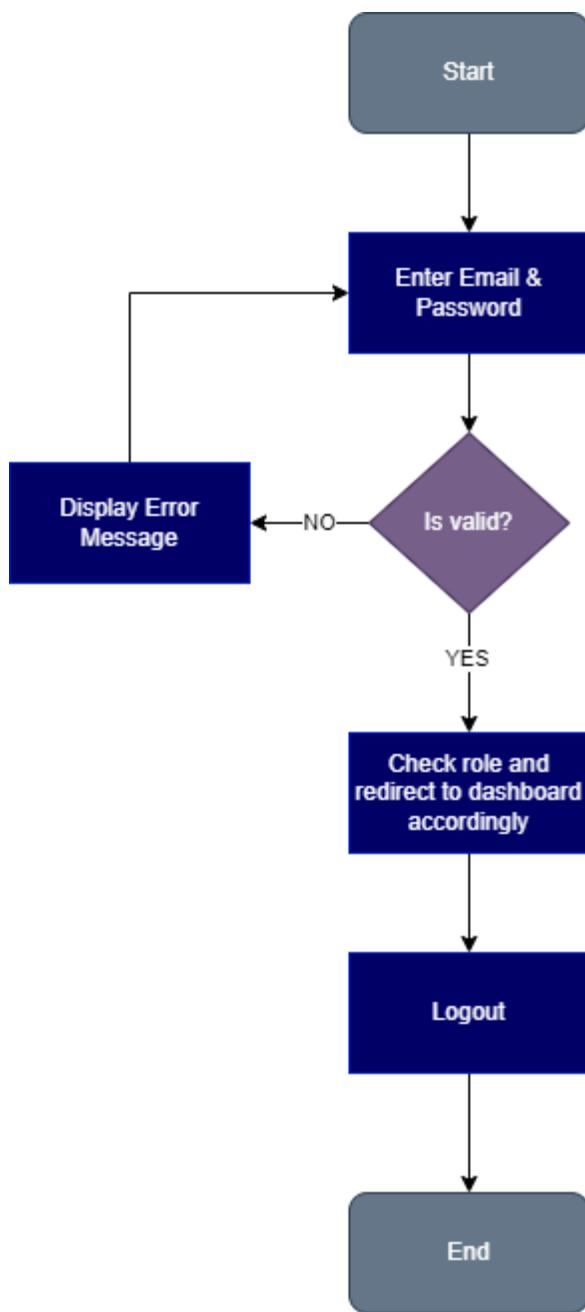


Figure 10: Flow Chart - Login

- **Registration**

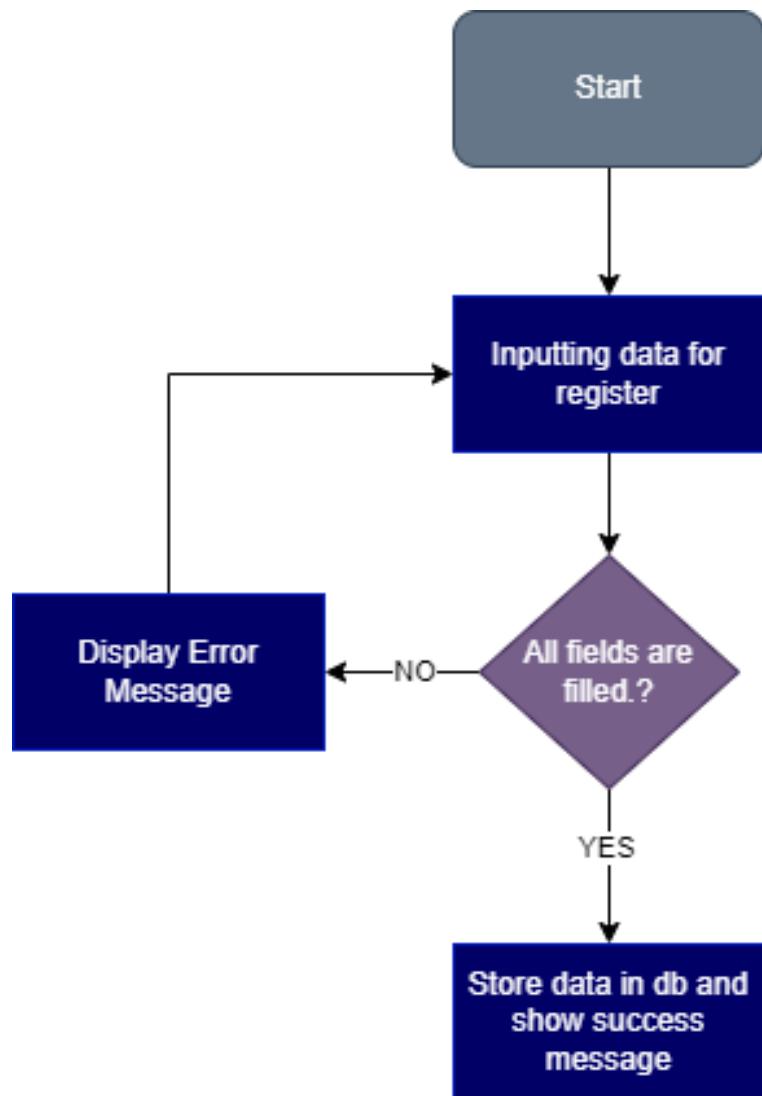


Figure 11: Flow Chart - Registration

- **User**

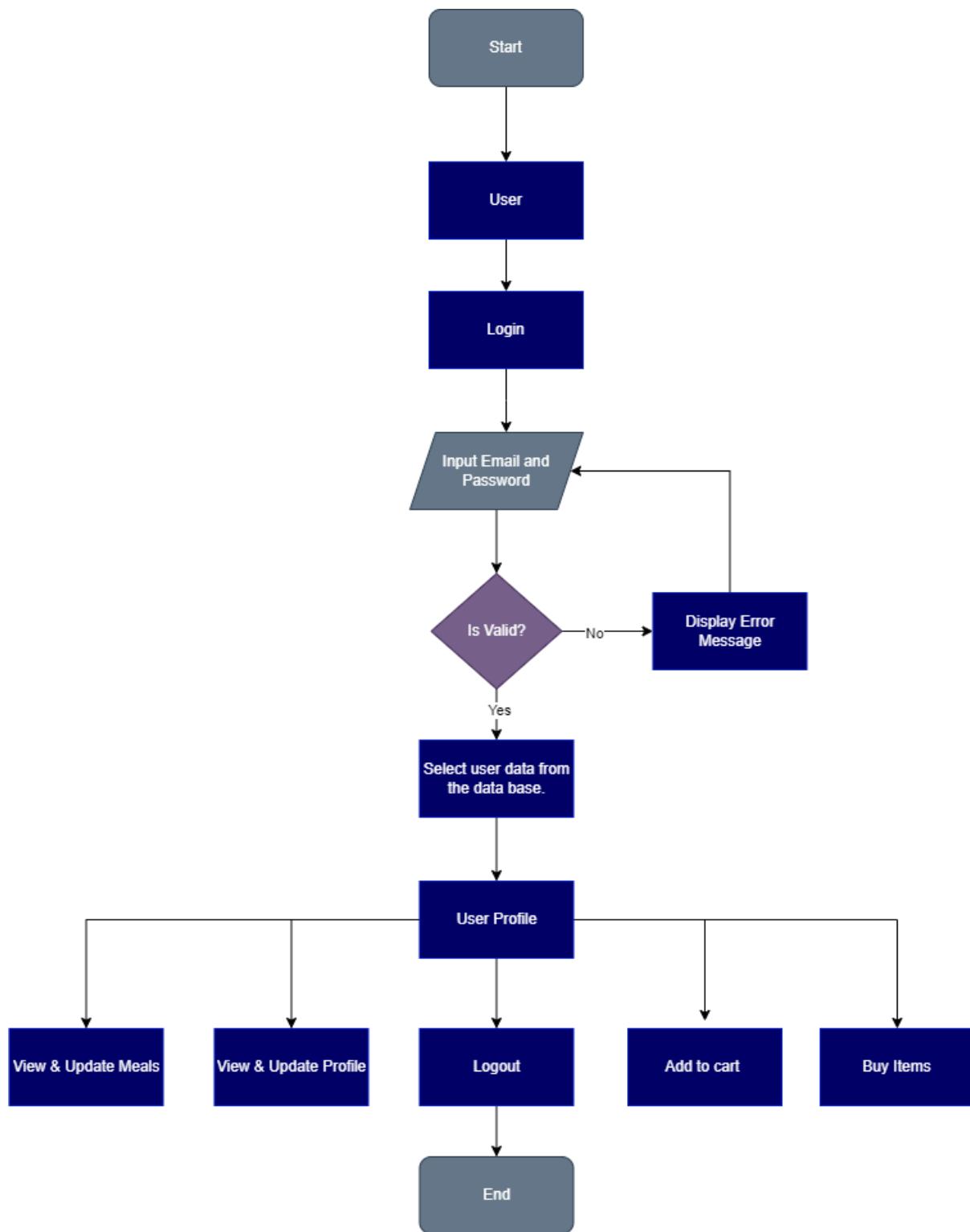


Figure 12: Flow Chart - User

- **Staff**

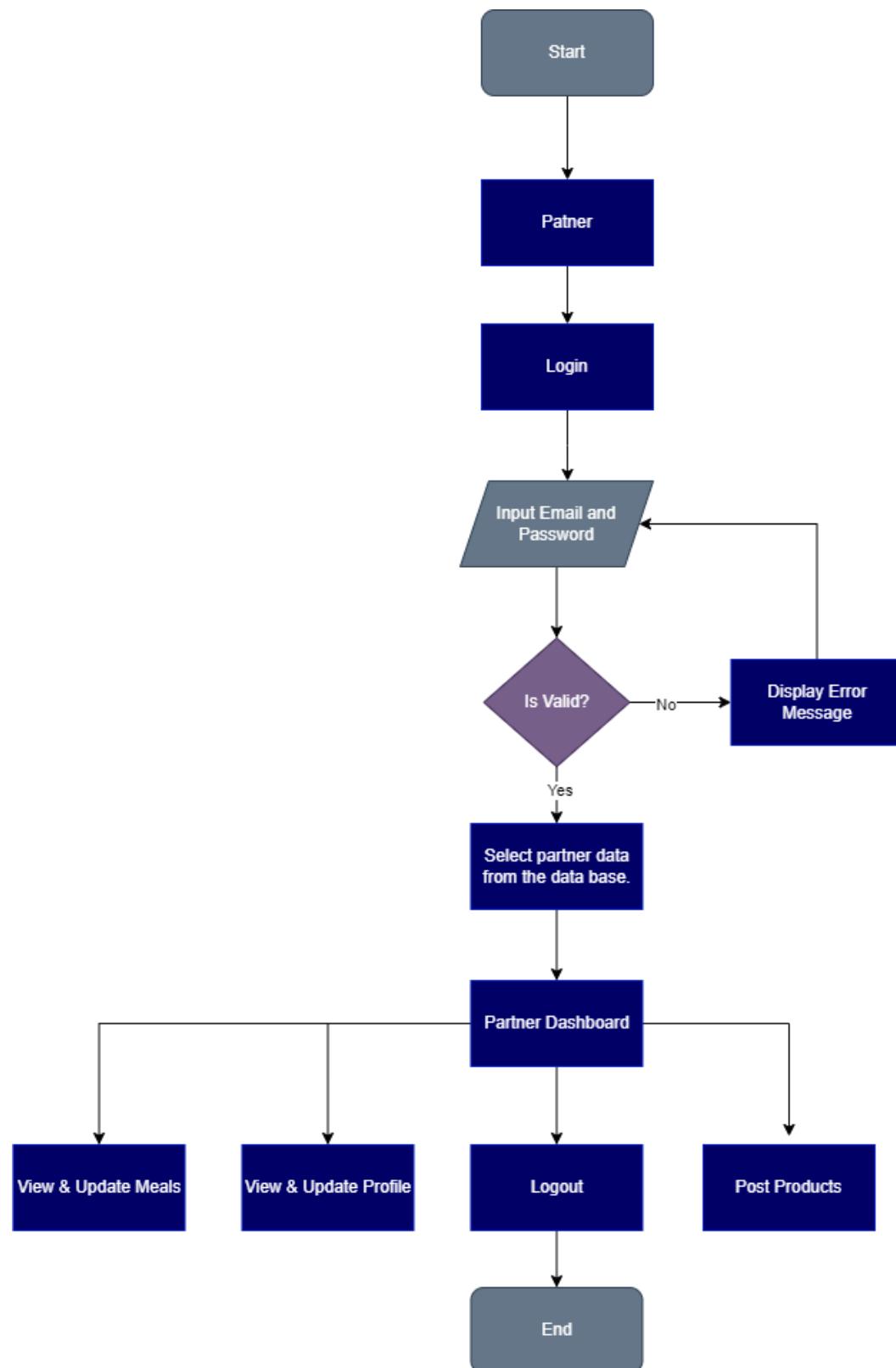


Figure 13: Flow Chart - Staff

- **Search Products**

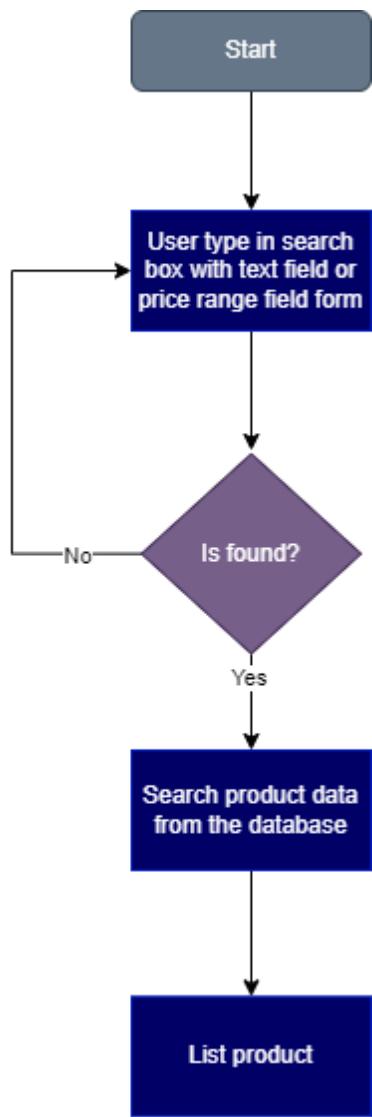


Figure 14: Flow Chart - Search Products

## ➤ Post Products

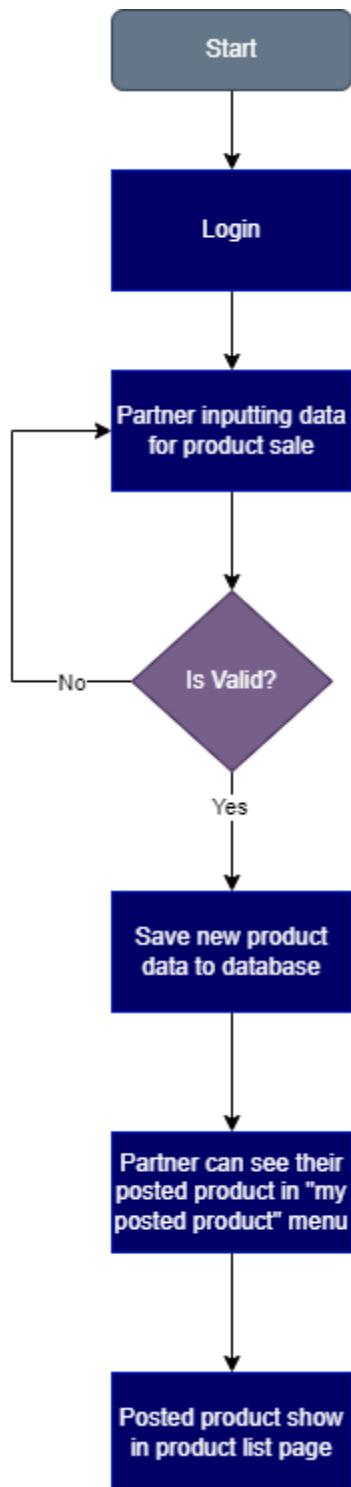


Figure 15: Flow Chart - Post Products

## 8.8.2 Story Boards

### ➤ Landing

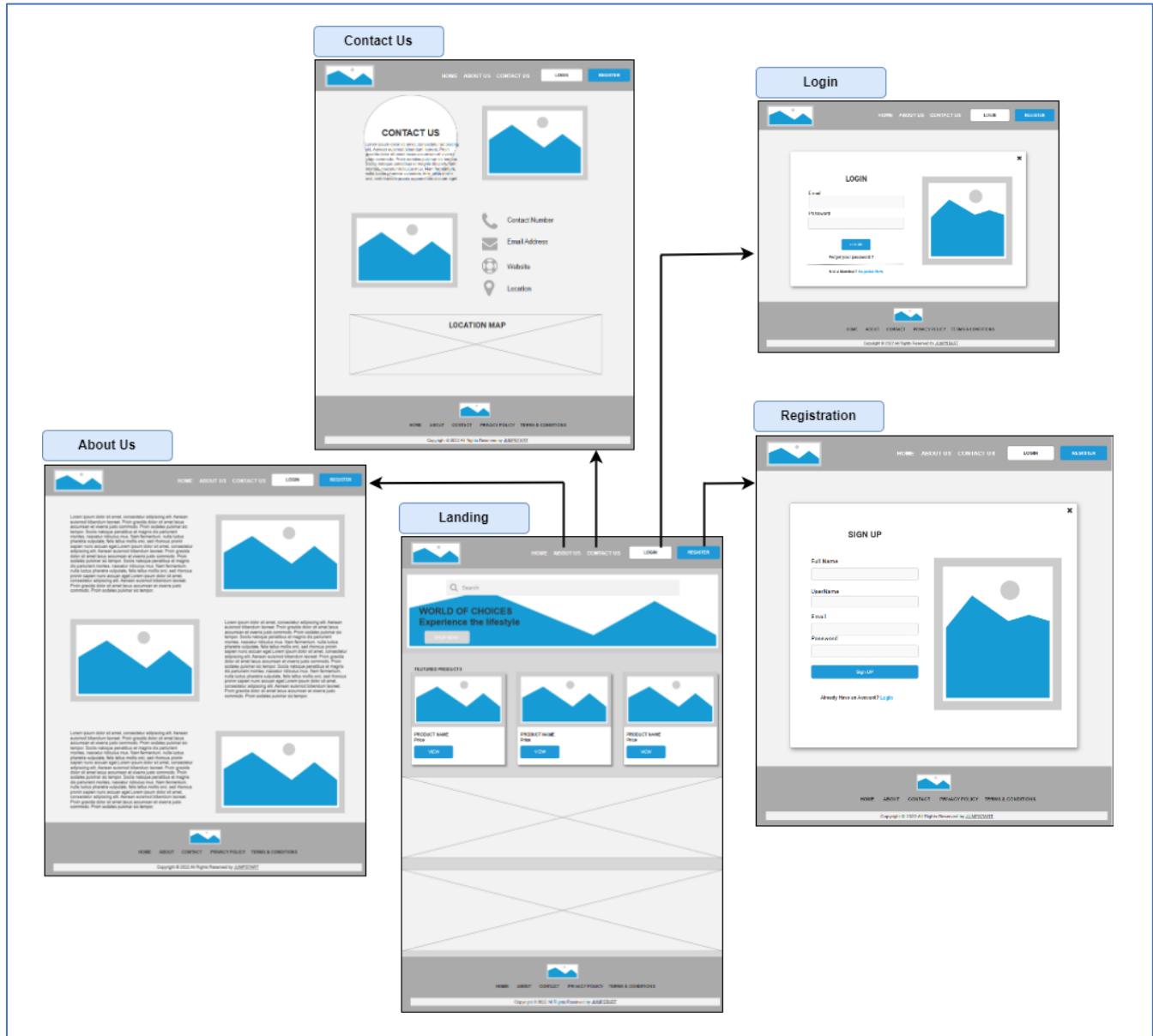


Figure 16:Story Board - Landing

➤ **User Login & Activity**



Figure 17:Story Board - User Login & Activities

## ➤ Admin Login and Activities

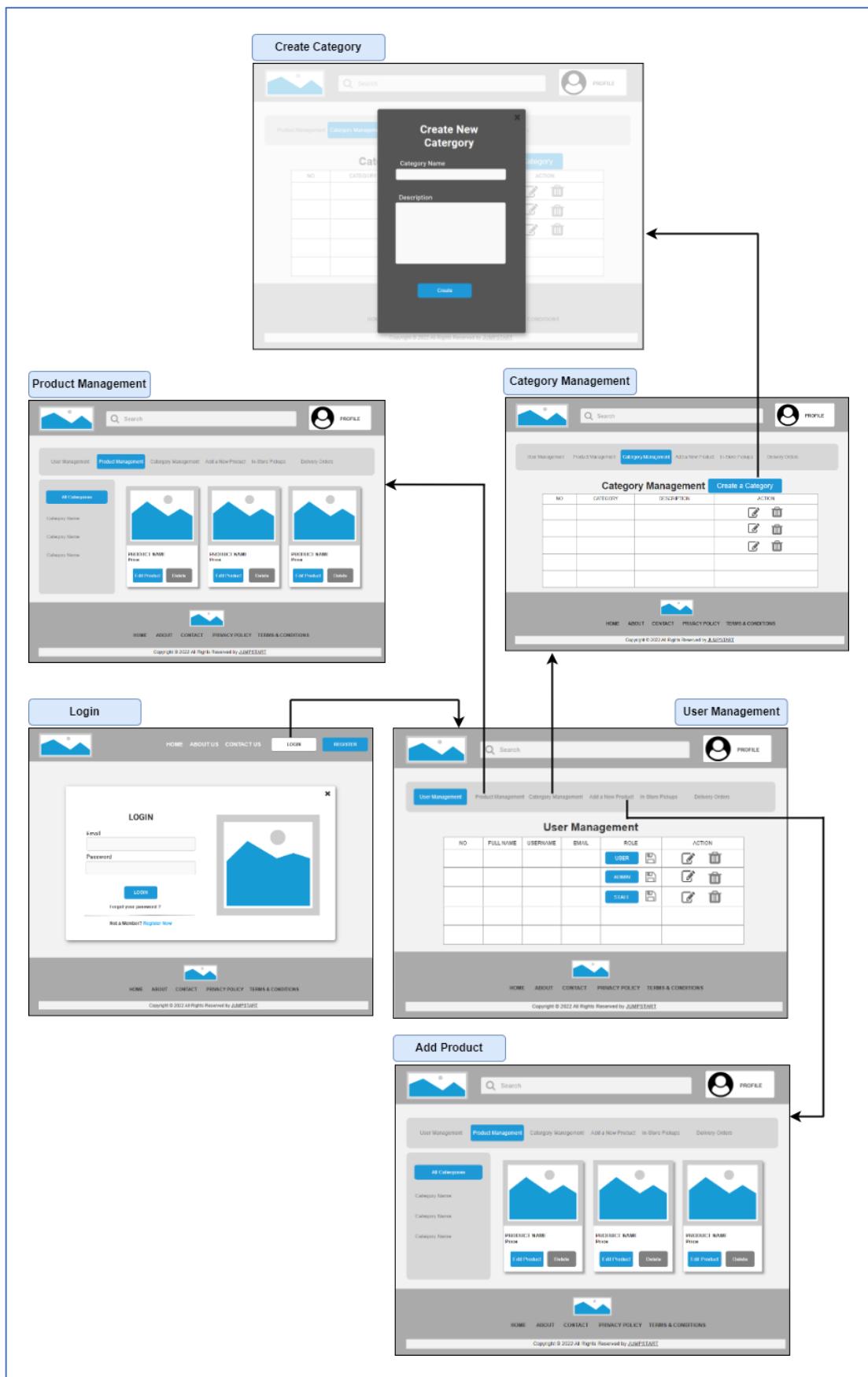


Figure 18:Story Board - Admin Login and Activities

## ➤ Staff Login & Activities



Figure 19:Story Board - Staff Login & Activities

### 8.8.3 Wireframes

#### ✓ Landing Page

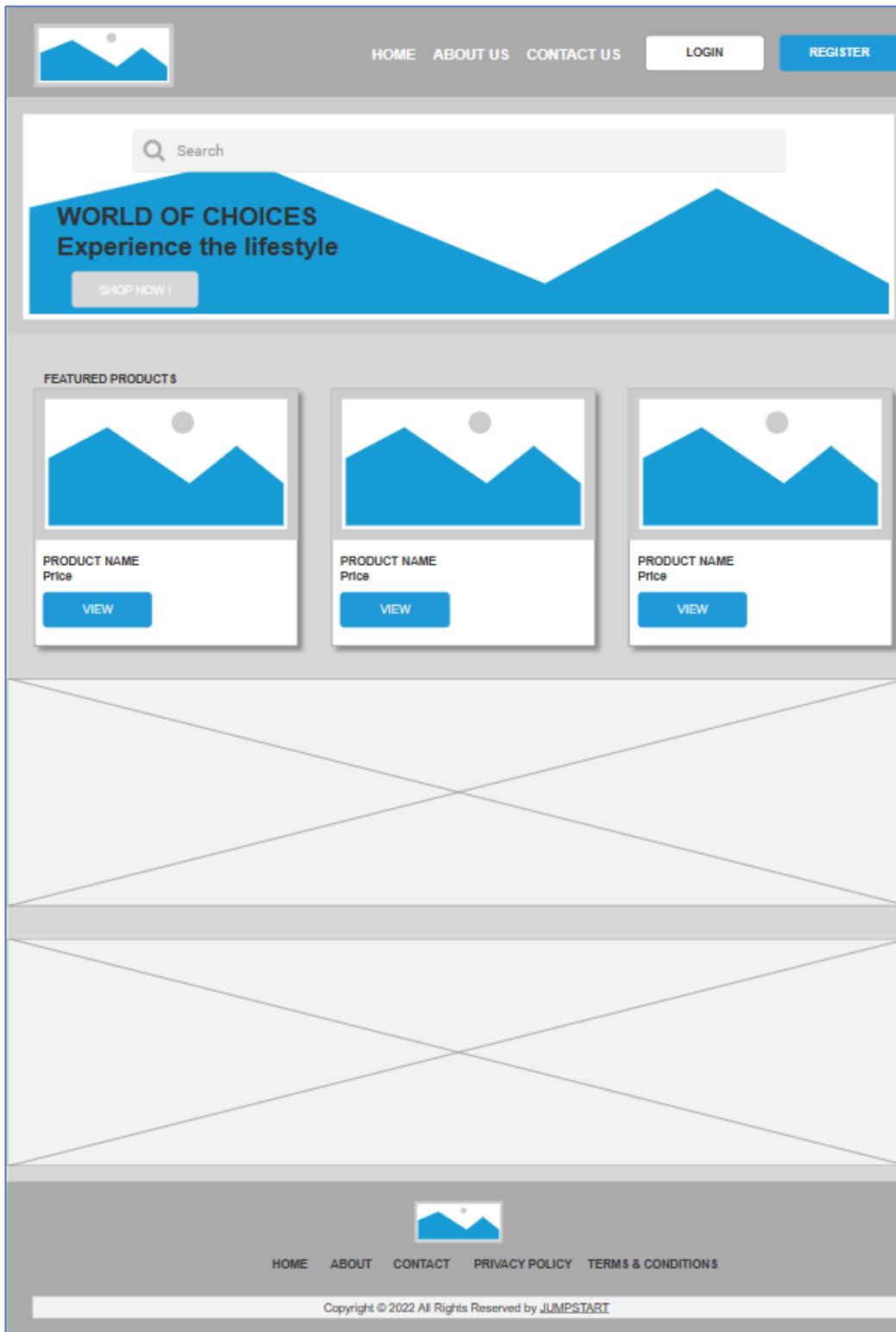


Figure 20:Wireframe - Landing Page

## ✓ About Us Page

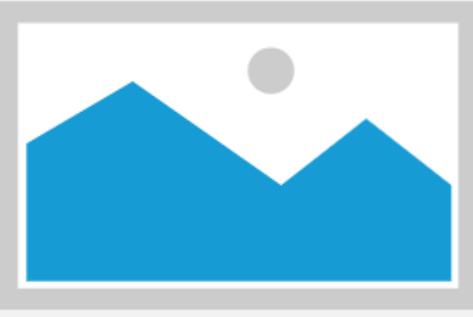
The wireframe illustrates the layout of the About Us page. At the top, there is a header bar with a logo icon on the left and navigation links for HOME, ABOUT US, CONTACT US, LOGIN, and REGISTER. Below the header is a large content area containing a placeholder image (blue mountains and a sun) and a block of placeholder text (Lorem ipsum). This section is repeated twice below. At the bottom, there is a footer bar with links for HOME, ABOUT, CONTACT, PRIVACY POLICY, and TERMS & CONDITIONS, along with a copyright notice.

HOME    ABOUT US    CONTACT US    LOGIN    REGISTER









**ABOUT US PAGE WIREFRAMES**

**Content Area:**

**Text:** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean euismod bibendum laoreet. Proin gravida dolor sit amet lacus accumsan et viverra justo commodo. Proin sodales pulvinar sic tempor. Sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Nam fermentum, nulla luctus pharetra vulputate, felis tellus mollis orci, sed rhoncus pronin sapien nunc accuan eget. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean euismod bibendum laoreet. Proin gravida dolor sit amet lacus accumsan et viverra justo commodo. Proin sodales pulvinar sic tempor. Sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Nam fermentum, nulla luctus pharetra vulputate, felis tellus mollis orci, sed rhoncus pronin sapien nunc accuan eget. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean euismod bibendum laoreet. Proin gravida dolor sit amet lacus accumsan et viverra justo commodo. Proin sodales pulvinar sic tempor. Sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Nam fermentum, nulla luctus pharetra vulputate, felis tellus mollis orci, sed rhoncus pronin sapien nunc accuan eget. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean euismod bibendum laoreet. Proin gravida dolor sit amet lacus accumsan et viverra justo commodo. Proin sodales pulvinar sic tempor.

**Footer:**

HOME    ABOUT    CONTACT    PRIVACY POLICY    TERMS & CONDITIONS

Copyright © 2022 All Rights Reserved by JUMPSTART

Figure 21:Wireframe - About Us Page

✓ **Contact Us Page**



Figure 22:Wireframe - Contact Us Page

## ✓ Registration

The wireframe illustrates a registration interface. At the top, there's a navigation bar with a logo icon, menu links (HOME, ABOUT US, CONTACT US), and buttons for LOGIN and REGISTER. A central modal window titled "SIGN UP" contains input fields for Full Name, User Name, Email, and Password, followed by a blue "Sign UP" button. Below the form is a link to "Already Have an Account? [Login](#)". To the right of the form is a large, empty placeholder area for a profile picture, featuring a blue mountain-like shape and a grey sun icon. The bottom of the page includes a footer with a logo, menu links (HOME, ABOUT, CONTACT, PRIVACY POLICY, TERMS & CONDITIONS), and a copyright notice: "Copyright © 2022 All Rights Reserved by JUMPSTART".

Figure 23:Wireframe - Registration

## ✓ Registration Verification

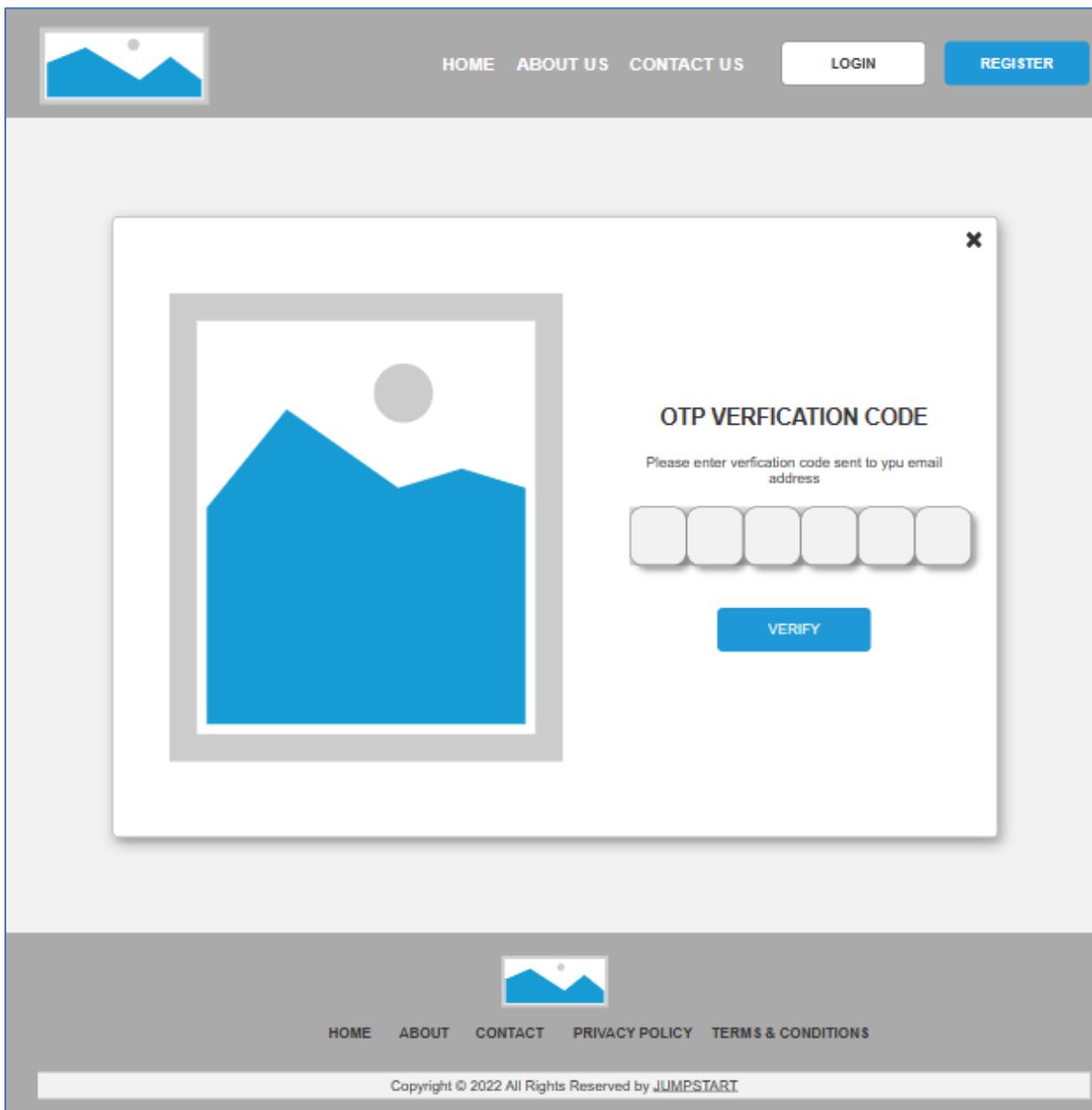


Figure 24:Wireframe - Registration Verification

## ✓ Registration Success

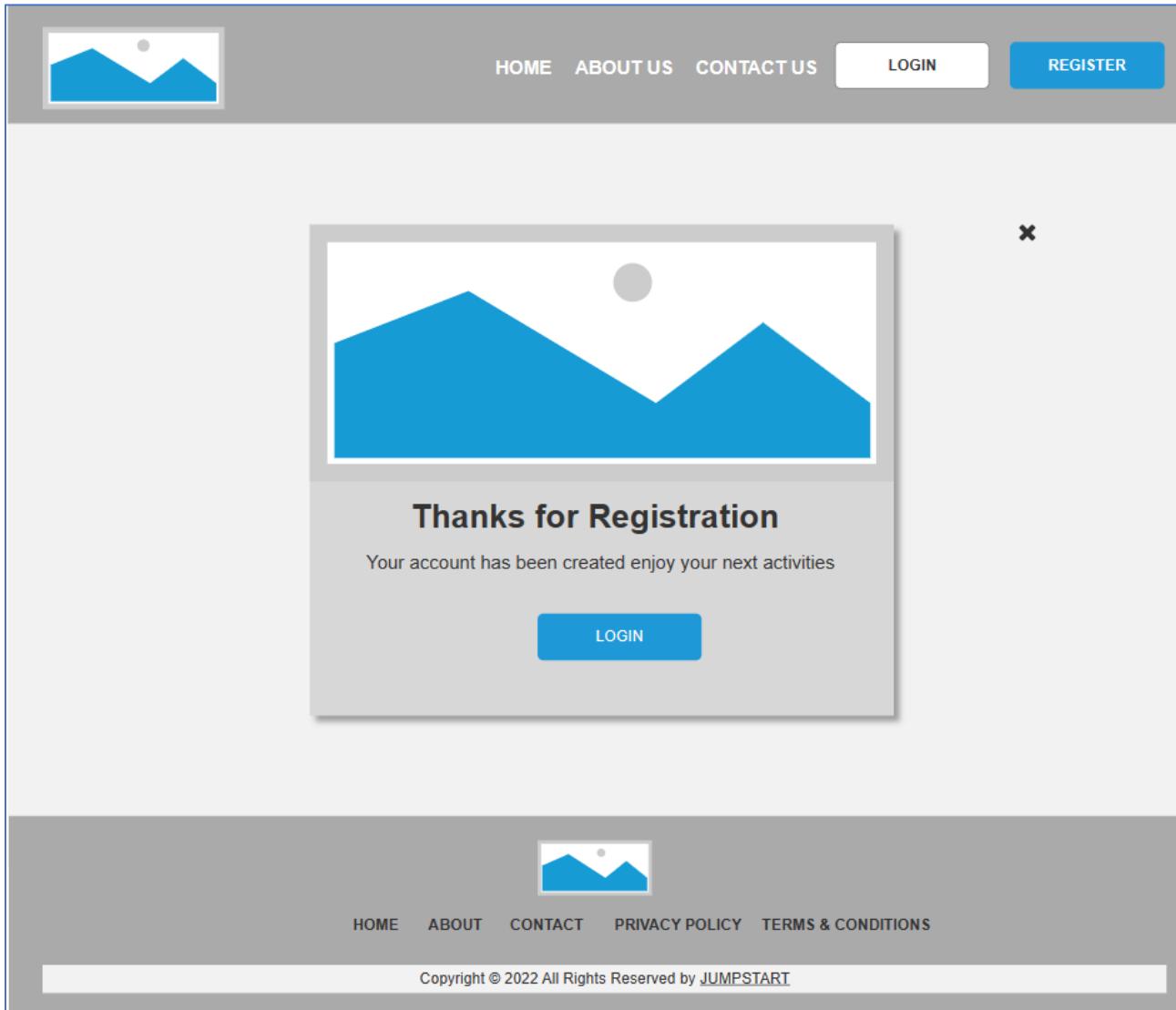


Figure 25:Wireframe - Registration Success

## ✓ Login

The wireframe shows a top navigation bar with a logo, 'HOME', 'ABOUT US', 'CONTACT US', a 'LOGIN' button, and a 'REGISTER' button. Below this is a large central modal window titled 'LOGIN'. Inside the modal, there are two input fields for 'Email' and 'Password', followed by a blue 'LOGIN' button. Below the buttons is a link 'Forgot your password ?'. At the bottom of the modal is a link 'Not a Member? Register Now'. To the right of the input fields is a decorative graphic of a blue mountain range with a sun. The footer contains a logo, 'HOME', 'ABOUT', 'CONTACT', 'PRIVACY POLICY', 'TERMS & CONDITIONS', and a copyright notice 'Copyright © 2022 All Rights Reserved by JUMPSTART'.

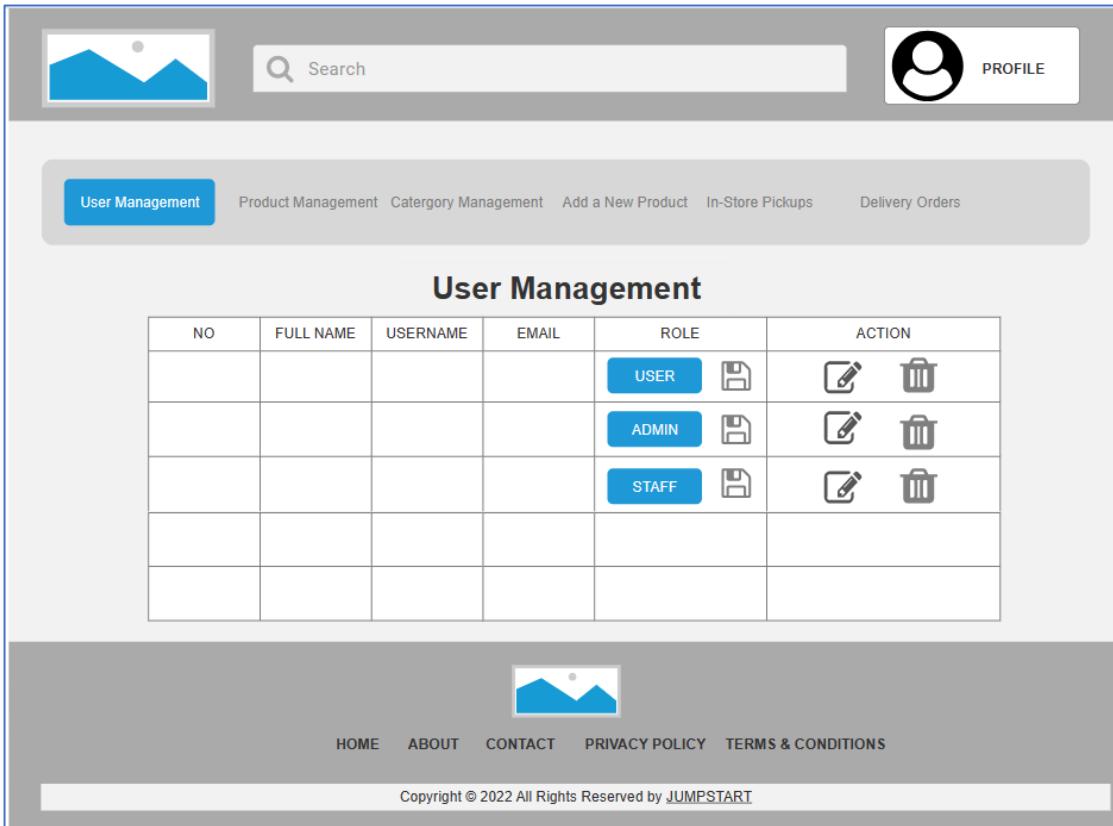
Figure 26:Wireframe - Login

## ✓ Forgot Password

The wireframe shows a top navigation bar with a logo, 'HOME', 'ABOUT US', 'CONTACT US', a 'LOGIN' button, and a 'REGISTER' button. Below this is a large central modal window titled 'Forgot Password'. Inside the modal, there is a decorative graphic of a blue mountain range with a sun. To the right of the graphic is an 'Email' input field and a blue 'SUBMIT' button. Below these is a link 'Not a Member? Register Now'. The footer contains a logo, 'HOME', 'ABOUT', 'CONTACT', 'PRIVACY POLICY', 'TERMS & CONDITIONS', and a copyright notice 'Copyright © 2022 All Rights Reserved by JUMPSTART'.

Figure 27:Wireframe - Forgot Password

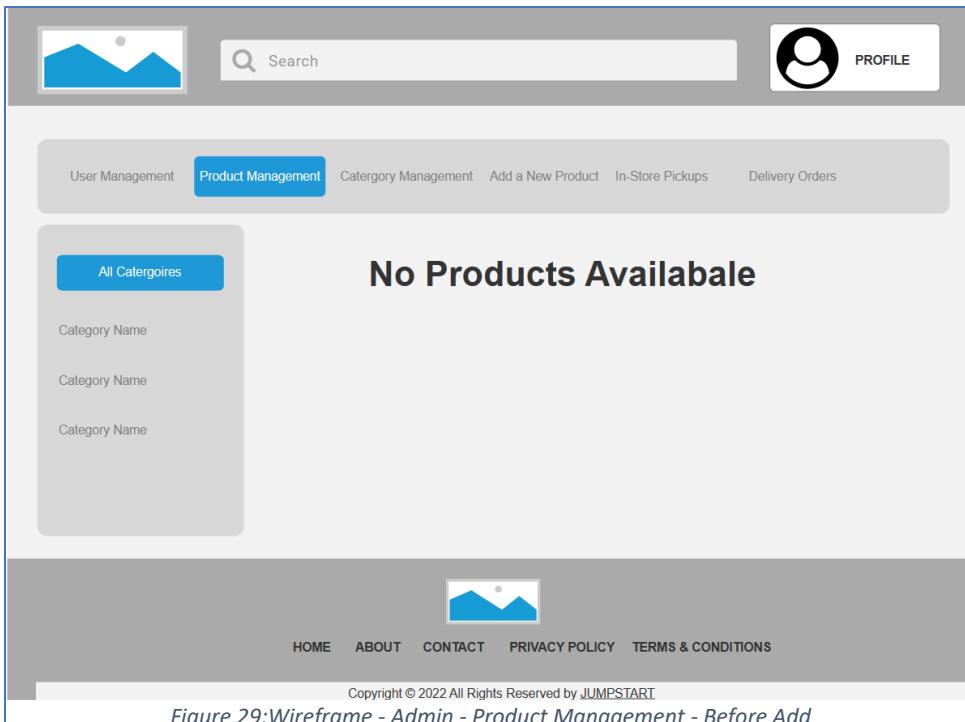
## ✓ Admin - User Management



The wireframe for Admin User Management features a header with a logo, a search bar, and a profile icon. Below the header is a navigation bar with tabs: User Management (selected), Product Management, Category Management, Add a New Product, In-Store Pickups, and Delivery Orders. The main content area is titled "User Management" and contains a table with columns: NO, FULL NAME, USERNAME, EMAIL, ROLE, and ACTION. The ACTION column includes buttons for USER, ADMIN, and STAFF, each with edit and delete icons. At the bottom is a footer with links to Home, About, Contact, Privacy Policy, Terms & Conditions, and copyright information.

Figure 28:Wireframe - Admin User Management

## ✓ Admin – Product Management – Before Add



The wireframe for Admin Product Management - Before Add shows a header with a logo, a search bar, and a profile icon. The navigation bar includes tabs for User Management, Product Management (selected), Category Management, Add a New Product, In-Store Pickups, and Delivery Orders. A sidebar on the left contains a button for "All Categories" and three "Category Name" input fields. The main content area displays the message "No Products Available". The footer is identical to the one in Figure 28.

Figure 29:Wireframe - Admin - Product Management - Before Add

## Admin - Product Management - After Add

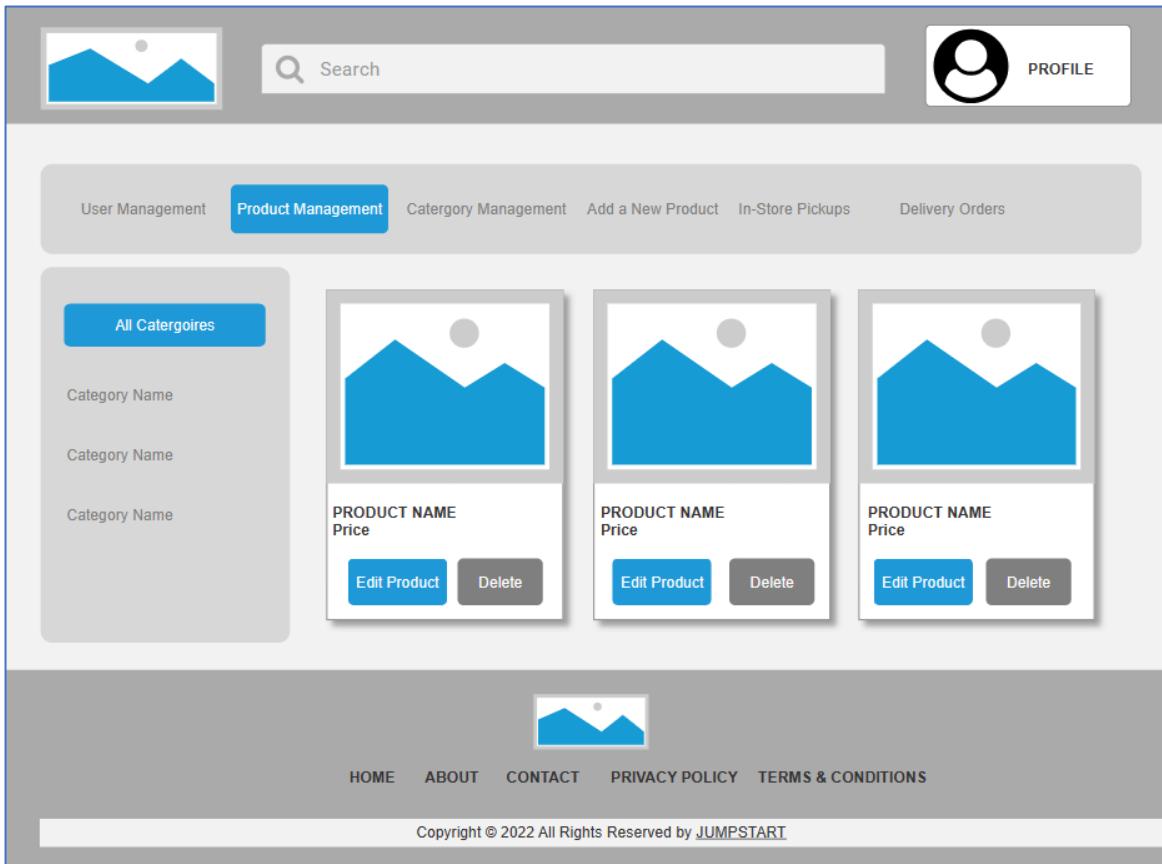
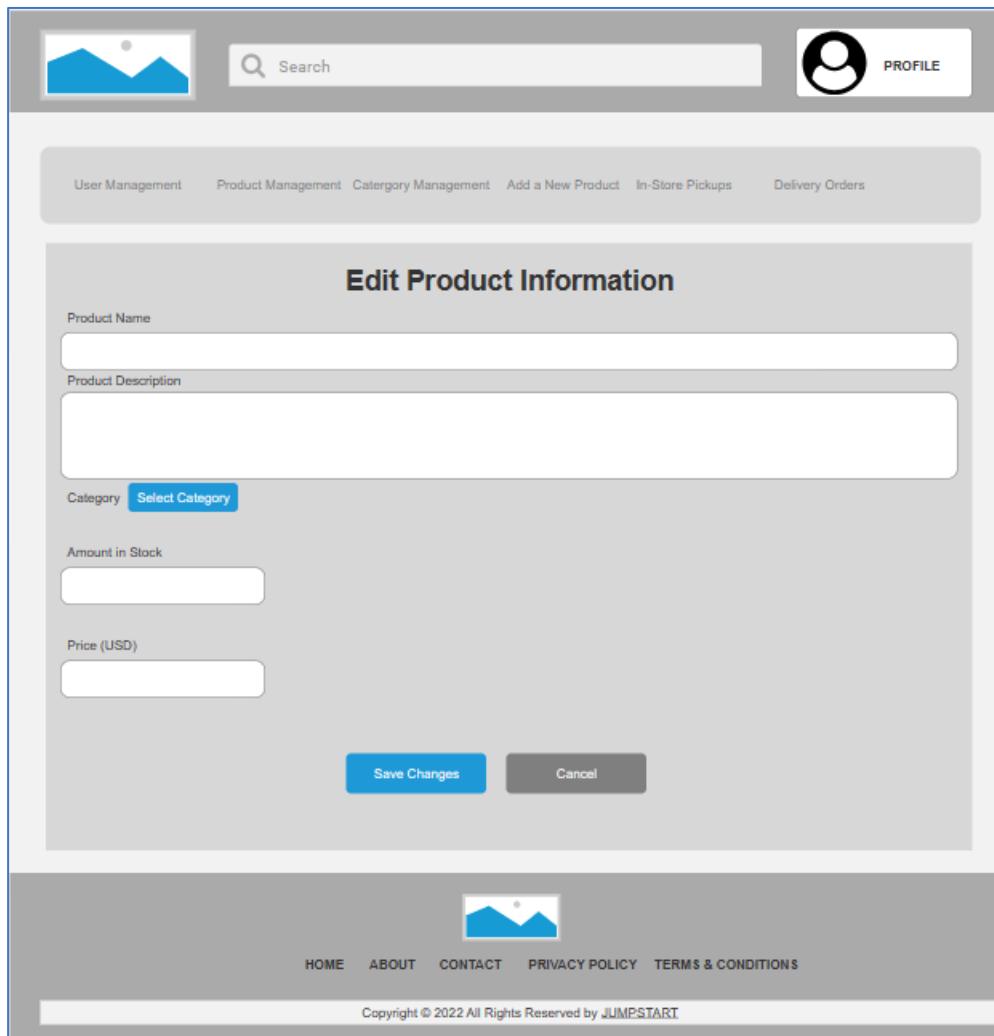


Figure 30:Wireframe - Admin Procut Management - After Add

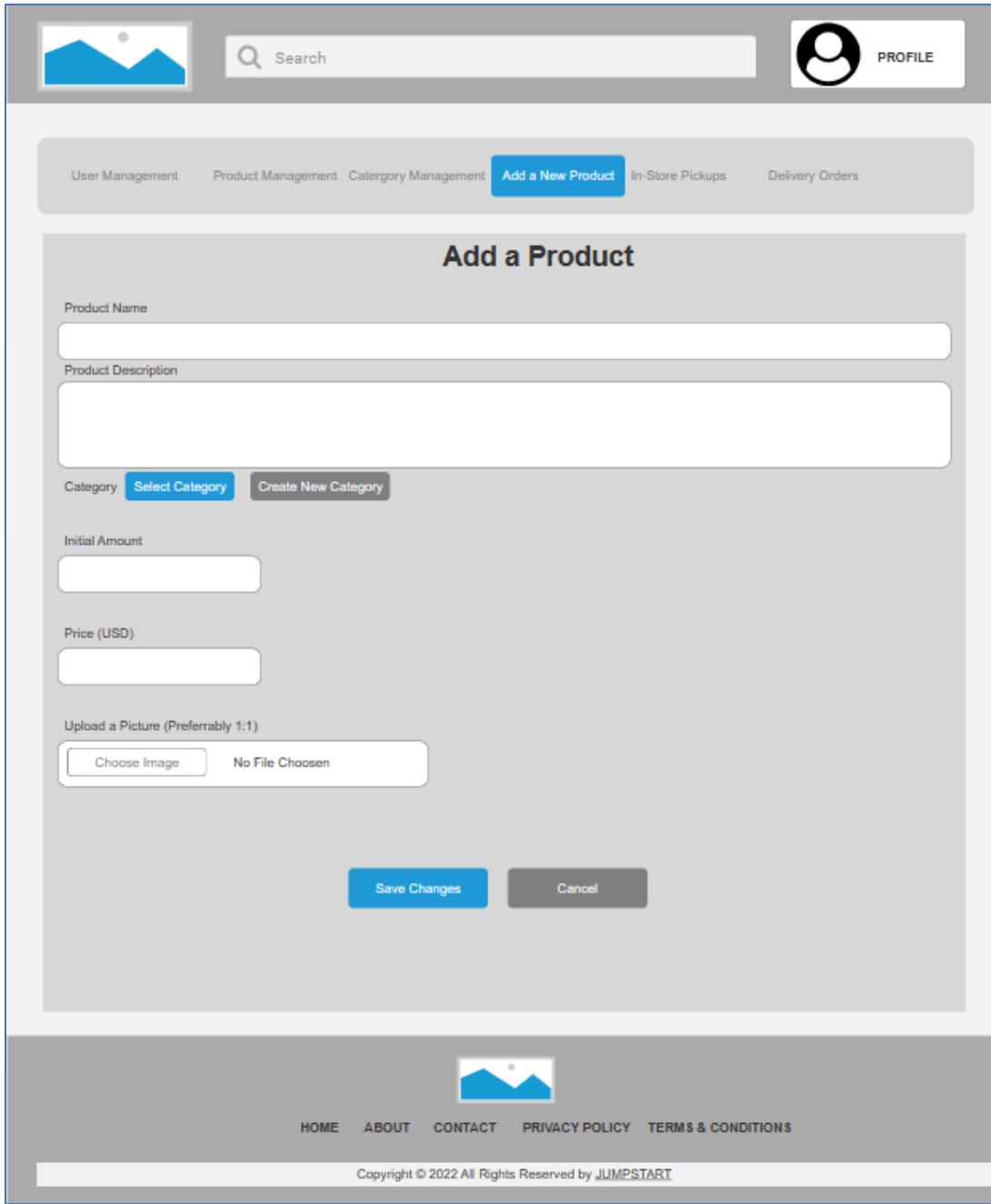
## ✓ Edit Product Information



The wireframe illustrates the 'Edit Product Information' page. At the top, there's a header bar with a logo, a search bar containing the placeholder 'Search', and a profile icon labeled 'PROFILE'. Below the header is a navigation menu with links: 'User Management', 'Product Management', 'Category Management', 'Add a New Product', 'In-Store Pickups', and 'Delivery Orders'. The main content area is titled 'Edit Product Information'. It contains fields for 'Product Name' (with a text input), 'Product Description' (with a text input), 'Category' (with a button labeled 'Select Category'), 'Amount in Stock' (with a text input), and 'Price (USD)' (with a text input). At the bottom of the content area are two buttons: 'Save Changes' (blue) and 'Cancel' (grey). The footer features a logo, links to 'HOME', 'ABOUT', 'CONTACT', 'PRIVACY POLICY', and 'TERMS & CONDITIONS', and a copyright notice: 'Copyright © 2022 All Rights Reserved by JUMPSTART'.

Figure 31:Wireframe - Edit Product Information

## ✓ Add Product Form



The wireframe illustrates the 'Add a Product' form interface. At the top, there's a header bar with a logo, a search bar, and a profile icon. Below the header, a navigation bar includes links for User Management, Product Management, Category Management, Add a New Product (which is highlighted in blue), In-Store Pickups, and Delivery Orders. The main content area is titled 'Add a Product'. It contains fields for Product Name, Product Description, Category selection (with options to 'Select Category' or 'Create New Category'), Initial Amount, Price (USD), and an image upload section ('Upload a Picture (Preferrably 1:1)'). The bottom of the form features 'Save Changes' and 'Cancel' buttons. The footer includes a logo, links for HOME, ABOUT, CONTACT, PRIVACY POLICY, and TERMS & CONDITIONS, and a copyright notice: 'Copyright © 2022 All Rights Reserved by JUMPSTART'.

Product Name

Product Description

Category [Select Category](#) [Create New Category](#)

Initial Amount

Price (USD)

Upload a Picture (Preferrably 1:1)

[Choose Image](#) No File Chosen

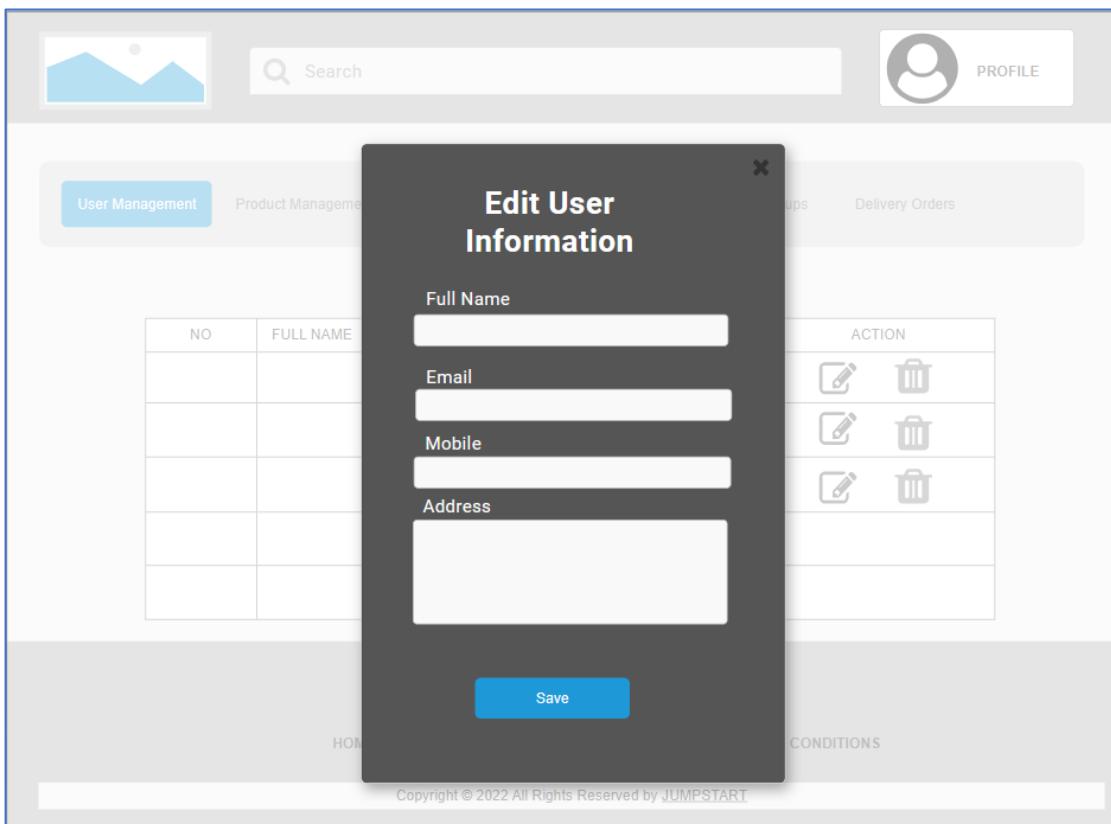
[Save Changes](#) [Cancel](#)

HOME ABOUT CONTACT PRIVACY POLICY TERMS & CONDITIONS

Copyright © 2022 All Rights Reserved by JUMPSTART

Figure 32:Wireframe - Add Product Form

## ✓ Admin - Edit User



The wireframe shows a modal dialog titled "Edit User Information". Inside the modal, there are four input fields: "Full Name", "Email", "Mobile", and "Address". Below these fields is a "Save" button. To the left of the modal is a table with columns "NO" and "FULL NAME". To the right of the modal is a vertical "ACTION" column containing three rows, each with edit and delete icons. The background of the page includes navigation links like "User Management", "Product Management", "HOME", "ABOUT", "CONTACT", "PRIVACY POLICY", "TERMS & CONDITIONS", and "Delivery Orders". A search bar and profile icon are also present.

Figure 33:Wireframe - Admin Edit User

## ✓ Admin Profile View



The wireframe shows a profile view with a large circular placeholder for a user picture. Below the placeholder are two buttons: "Edit Profile" (blue) and "Logout" (grey). To the right of the placeholder, there is a section labeled "NAME" with fields for "Username" and "Email". Further down are sections for "Mobile No" and "Address". At the bottom of the page, there is a footer with links: "HOME", "ABOUT", "CONTACT", "PRIVACY POLICY", "TERMS & CONDITIONS", and a copyright notice "Copyright © 2022 All Rights Reserved by JUMPSTART". The top of the page features a header with a search bar, profile icon, and navigation links.

Figure 34:Wireframe - Admin View Profile

## ✓ User Dashboard

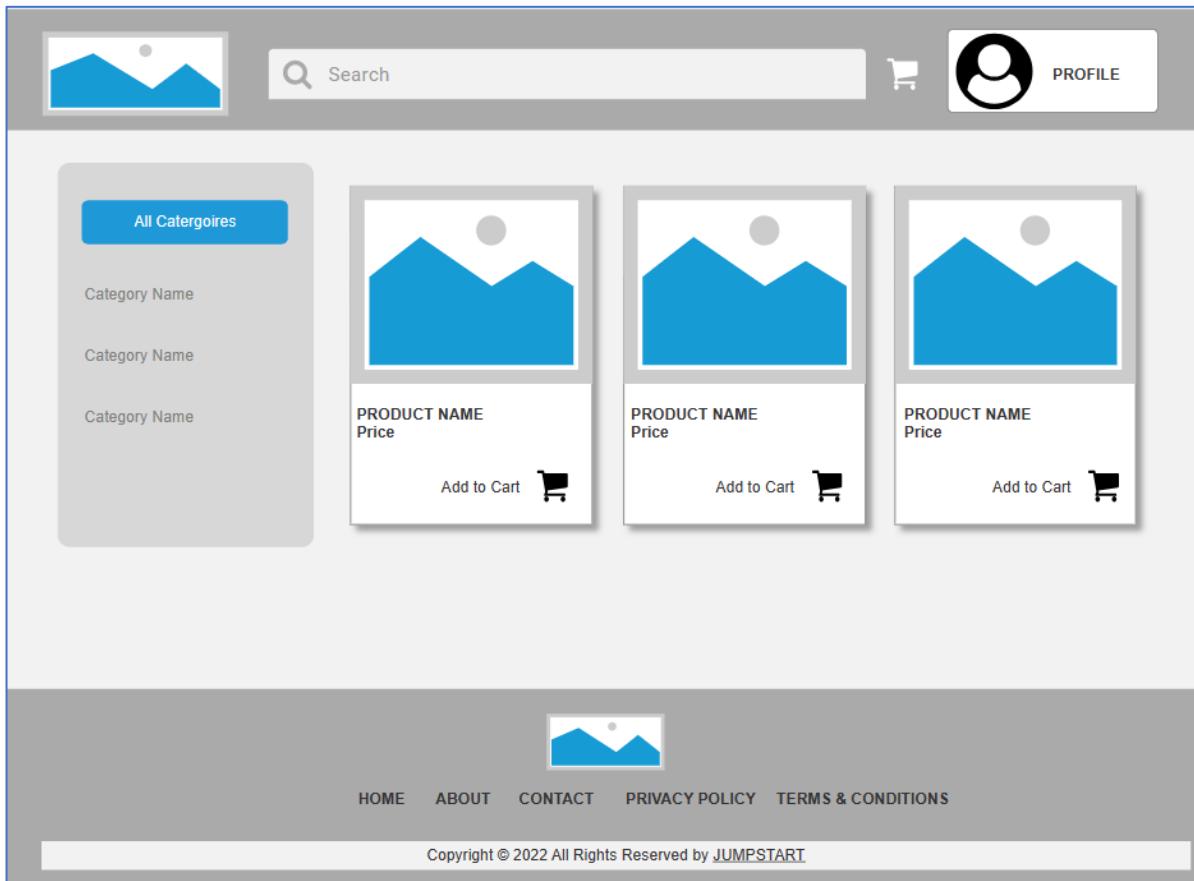


Figure 35:Wireframe - User Dashboard

## ✓ Cart Before add Items

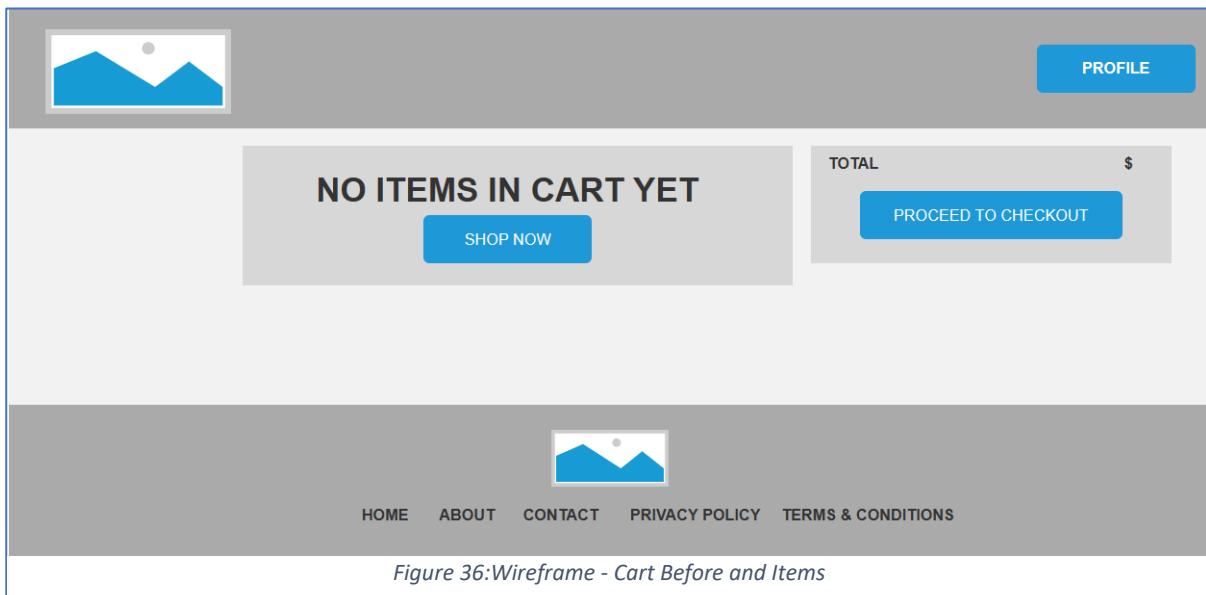


Figure 36:Wireframe - Cart Before and Items

## ✓ Cart After Add Items

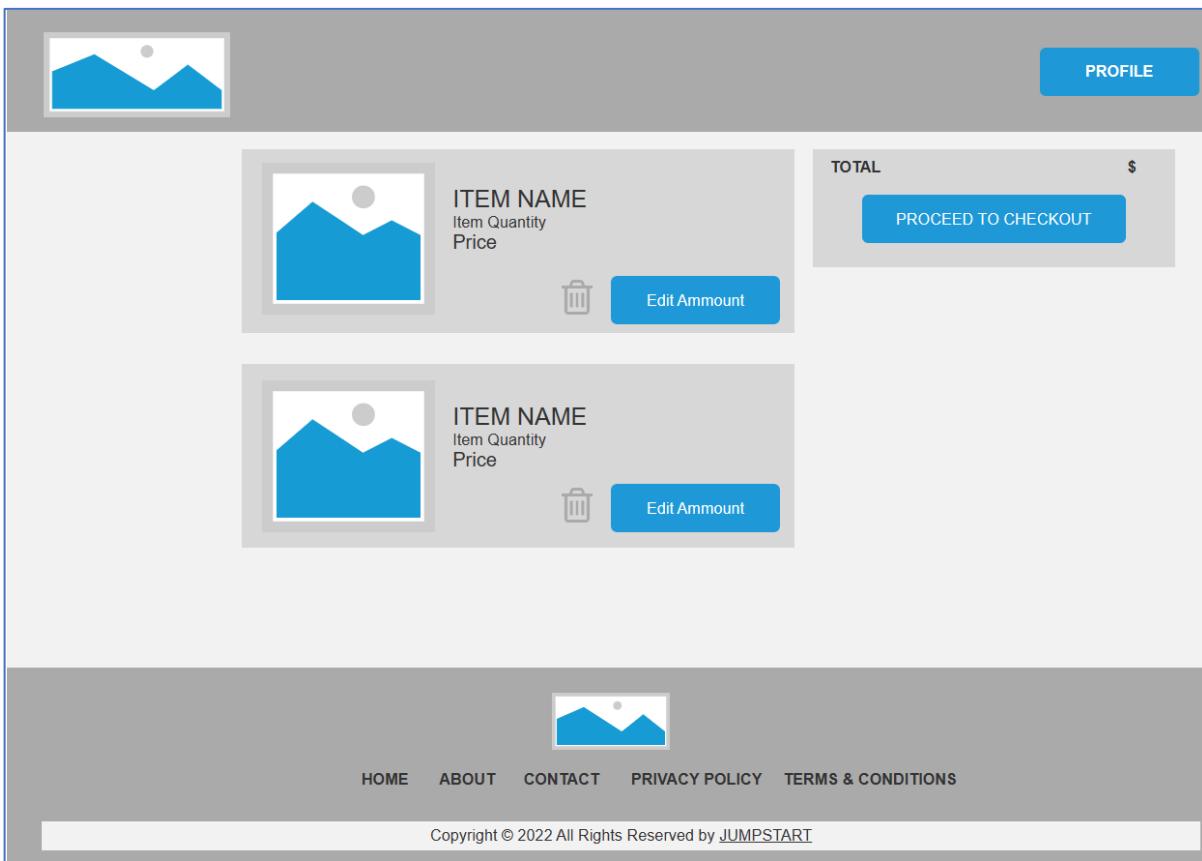


Figure 37:Wireframe - Cart After and Items

✓ **User Profile and Order History**

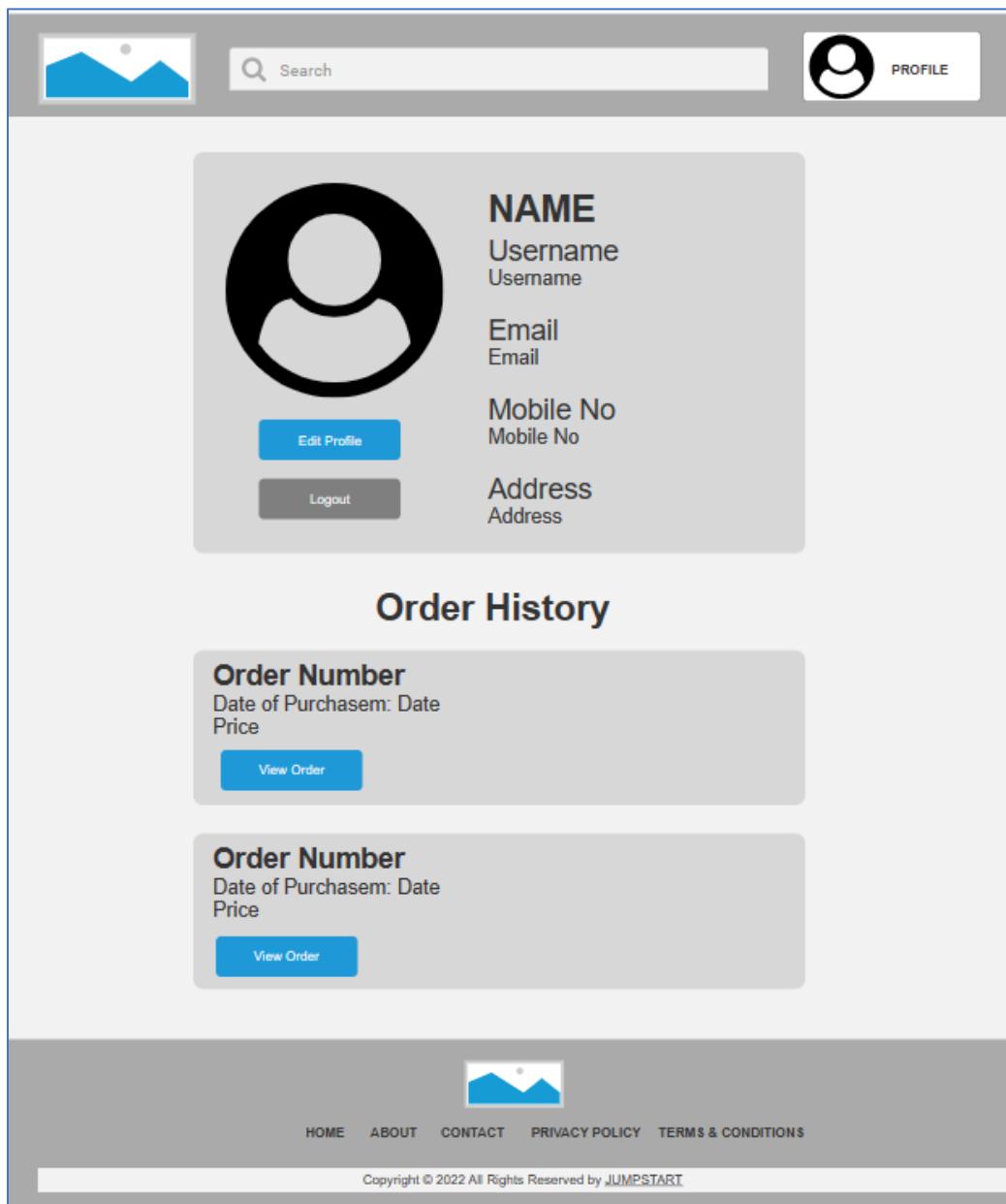


Figure 38:Wireframe - User Profile and Order History

## ✓ Staff Dashboard – Product Management

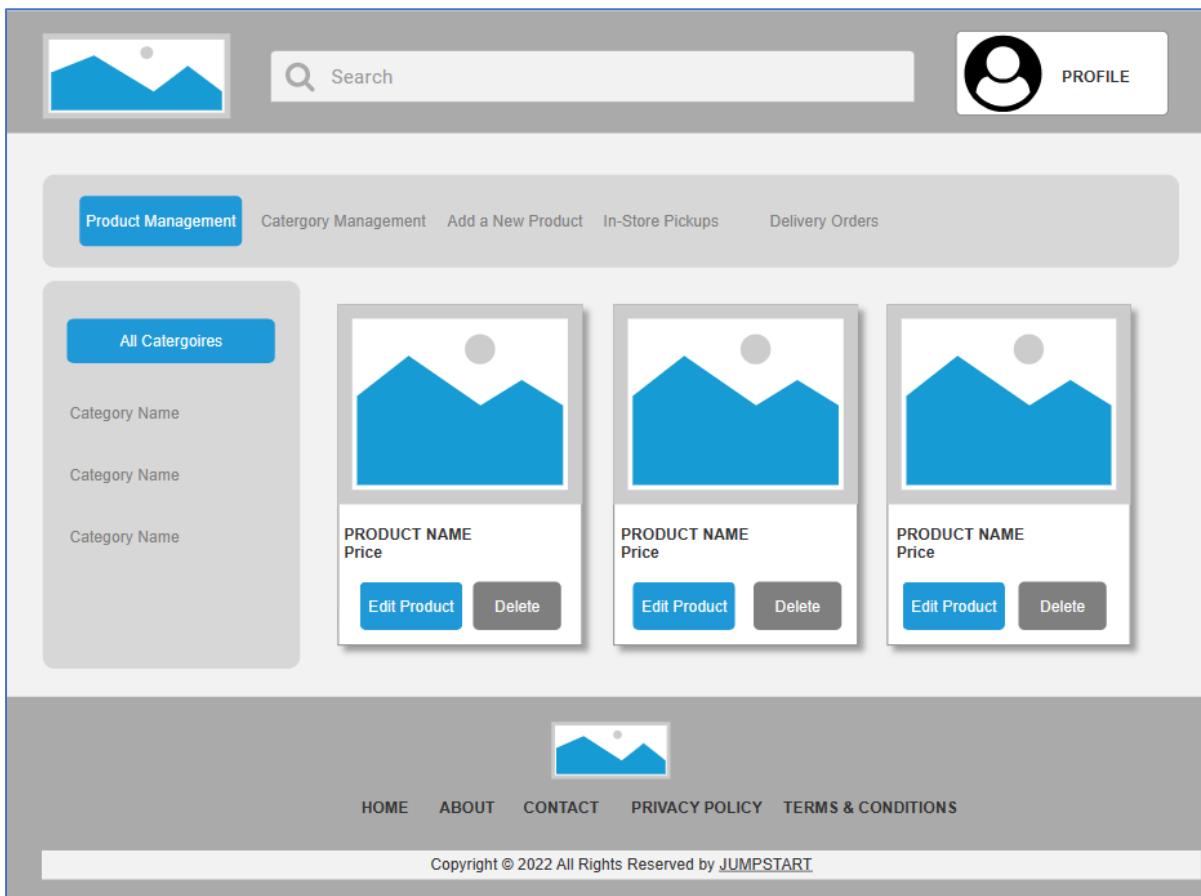


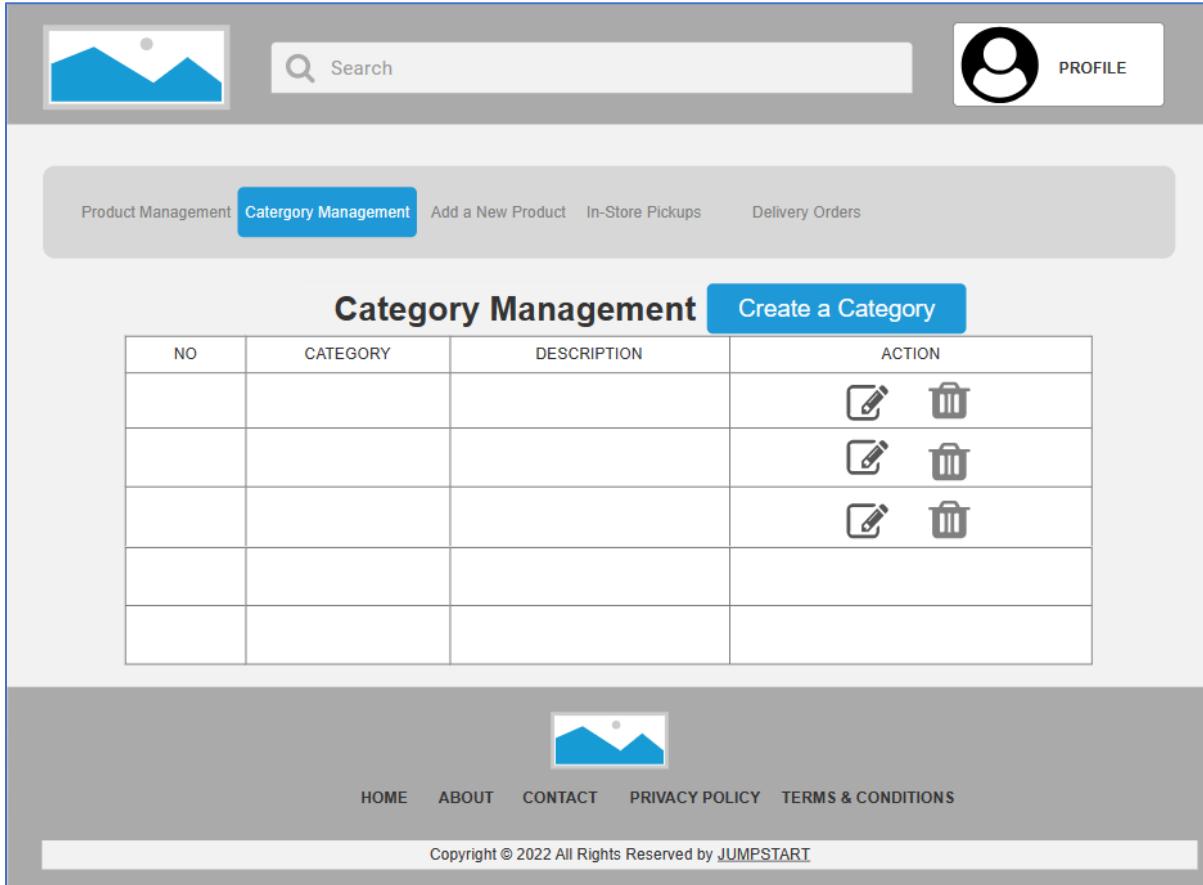
Figure 39:Wireframe - Staff Dashboard Product Management

## ✓ Staff Create Product Category Form

The wireframe shows a modal dialog titled 'Create New Category'. It contains fields for 'Category Name' (with a placeholder) and 'Description' (with a large text input area). A 'Create' button is at the bottom. In the background, the staff dashboard is visible with a 'Category Management' tab selected, showing a table with columns 'NO' and 'CATEGORY'. To the right is a sidebar with 'ACTION' buttons (edit and delete) for each row. The footer includes standard links: HOME, ABOUT, CONTACT, PRIVACY POLICY, TERMS & CONDITIONS, and a copyright notice: Copyright © 2022 All Rights Reserved by JUMPSTART.

Figure 40:Wireframe - Staff Create Product Category Form

## ✓ Staff -Category Management



The wireframe illustrates a web-based application for managing product categories. At the top, there's a header bar with a logo (blue mountain icon), a search bar containing the placeholder "Search", and a profile icon labeled "PROFILE". Below the header, a navigation menu includes "Product Management", "Catergory Management" (which is highlighted in blue), "Add a New Product", "In-Store Pickups", and "Delivery Orders". The main content area is titled "Category Management" and features a "Create a Category" button. A table below lists categories with columns for "NO", "CATEGORY", "DESCRIPTION", and "ACTION". Each row contains edit and delete icons. At the bottom of the page, there's a footer bar with links to "HOME", "ABOUT", "CONTACT", "PRIVACY POLICY", and "TERMS & CONDITIONS", along with a copyright notice: "Copyright © 2022 All Rights Reserved by JUMPSTART".

NO	CATEGORY	DESCRIPTION	ACTION
			 
			 
			 

Figure 41: Wireframe - Staff Category Management

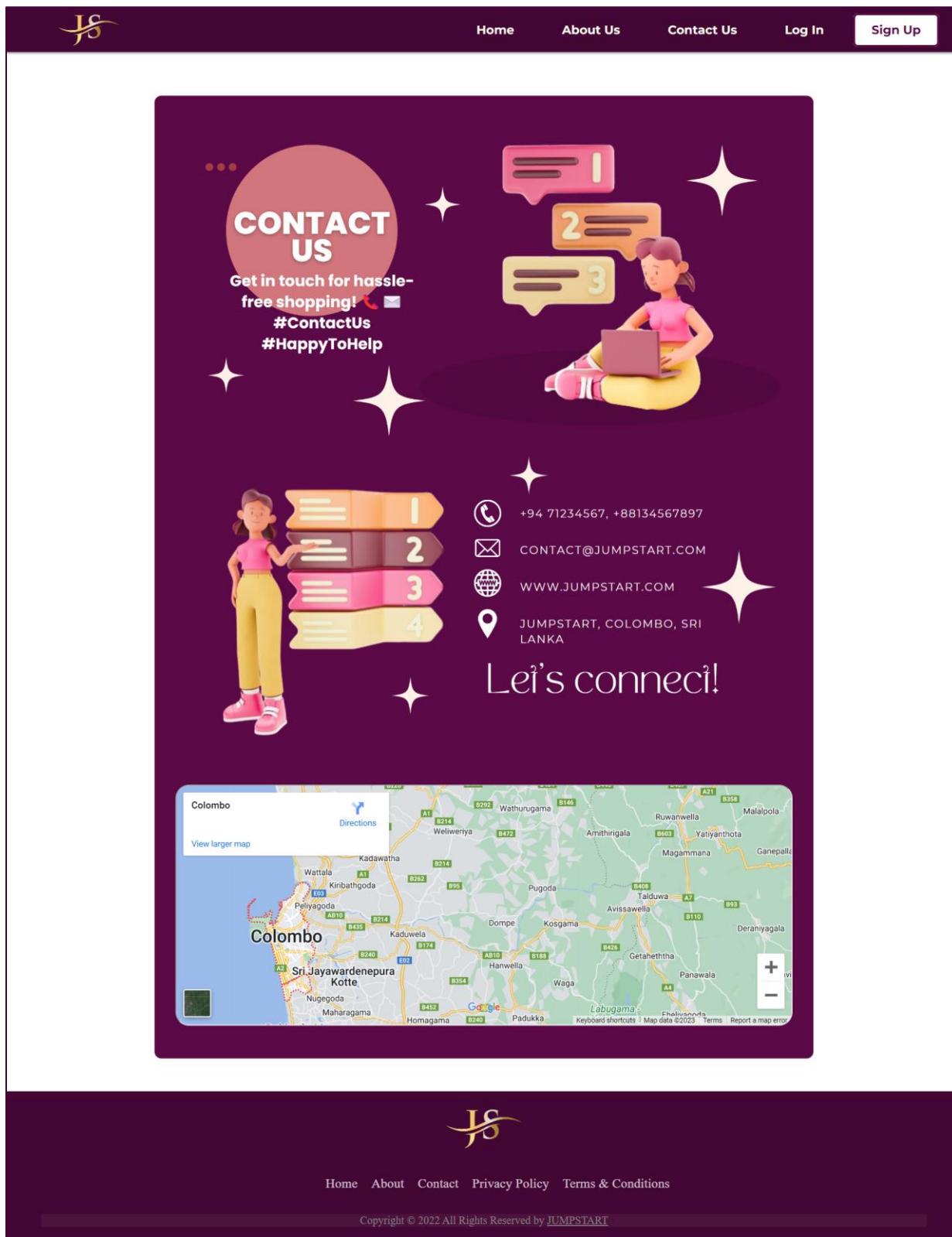
## 8.8.4 Prototypes

- Landing Page



Figure 42:Prototypes - Landing Page

- **Contact Us**



*Figure 43:Prototypes - Contact Us*

- **About Us**



- [Home](#)
- [About Us](#)
- [Contact Us](#)
- [Log In](#)
- [Sign Up](#)

## ABOUT US

Empowering Your Style, Elevating Your Experience – Welcome to JUMPSTART Where Fashion Meets Function, and Every Click Unlocks a World of Possibilities. Discover Trendsetting Collections, Seamless Shopping, and Unparalleled Service. Your Journey to Elevated Elegance Starts Here.



### WHO WE ARE •••

STORE Online Shopping in Sri Lanka with Free Home Delivery at jumpstart.lk What was the last time you had an exciting and rewarding online shopping experience? Can't remember! How about we make it even more convenient, fast and affordable to fulfill all your buying needs? With Sri Lanka's biggest online shopping store, you can choose from hundreds and thousands of endless and ageless collections of chicest and stylish products. Online shopping at jumpstart Sri Lanka offers you easy and convenient platform to order your most desired products with comfort of your home. Being the largest online shopping site in Sri Lanka, jumpstart is home to endless products featured in consumer electronics, home appliances, fashion and everything in between, jumpstart is a global online marketplace with ecommerce stores in Sri Lanka, Pakistan, Bangladesh, Nepal and Myanmar.

### WHY USE JUMPSTART TO BUY AND SELL YOUR PRODUCTS?

Experience online shopping in Sri Lanka with jumpstart.lk by purchasing genuine quality products showcased by verified sellers across the country that will ensure safe and swift deliveries of your orders. Our supply and logistic service will ensure on-time delivery of your orders in Colombo, Dehiwala-Mount Lavinia, Moratuwa, Jaffna, Negombo, Pita Kotte, Sri Jayewardenepura Kotte, Kandy, Trincomalee and within all major cities in Sri Lanka.





- [Home](#)
- [About](#)
- [Contact](#)
- [Privacy Policy](#)
- [Terms & Conditions](#)

Copyright © 2022 All Rights Reserved by JUMPSTART

Figure 44:Prototypes - About Us Page

- **Registration**

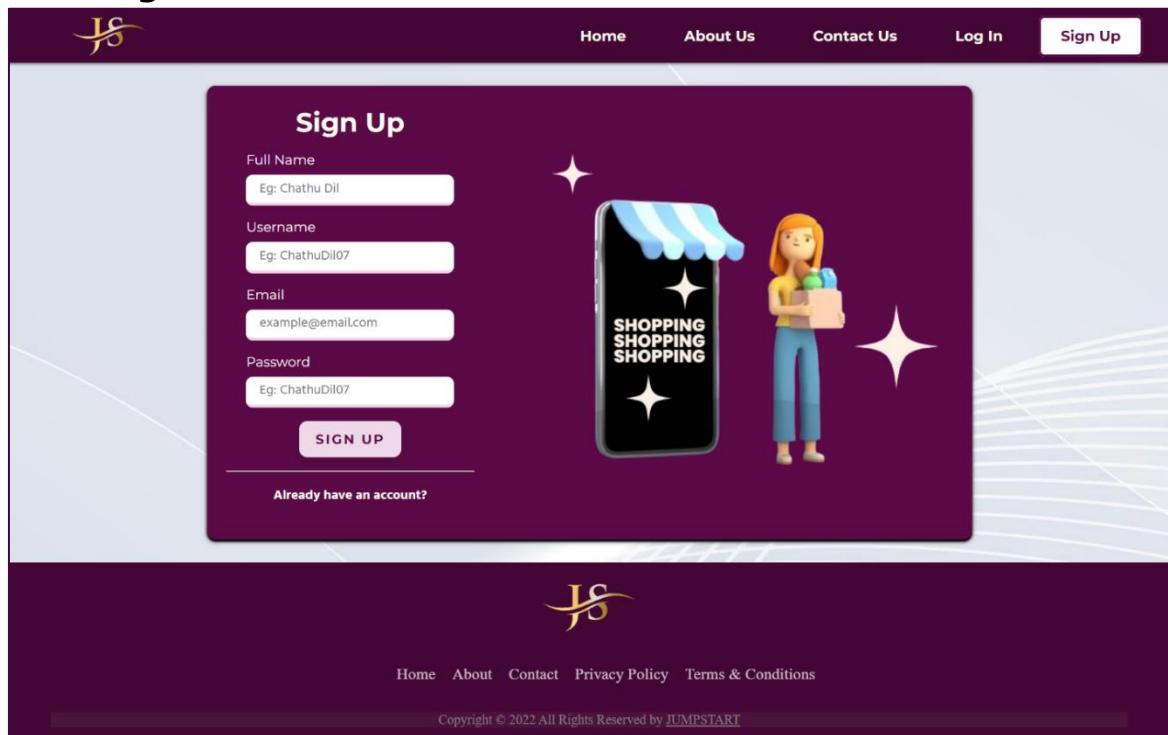


Figure 45:Prototypes - Registration

- **Registration Verification (OTP)**

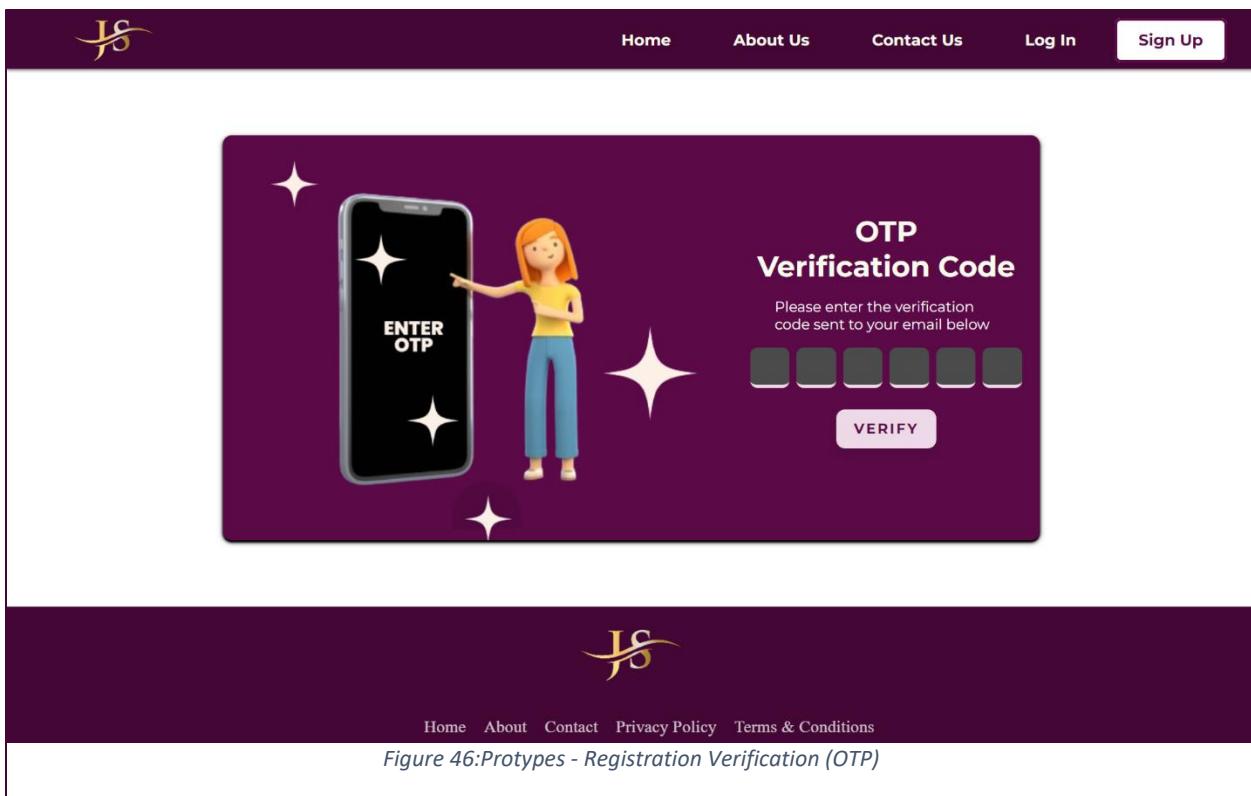


Figure 46:Prototypes - Registration Verification (OTP)

- **Registration Success**

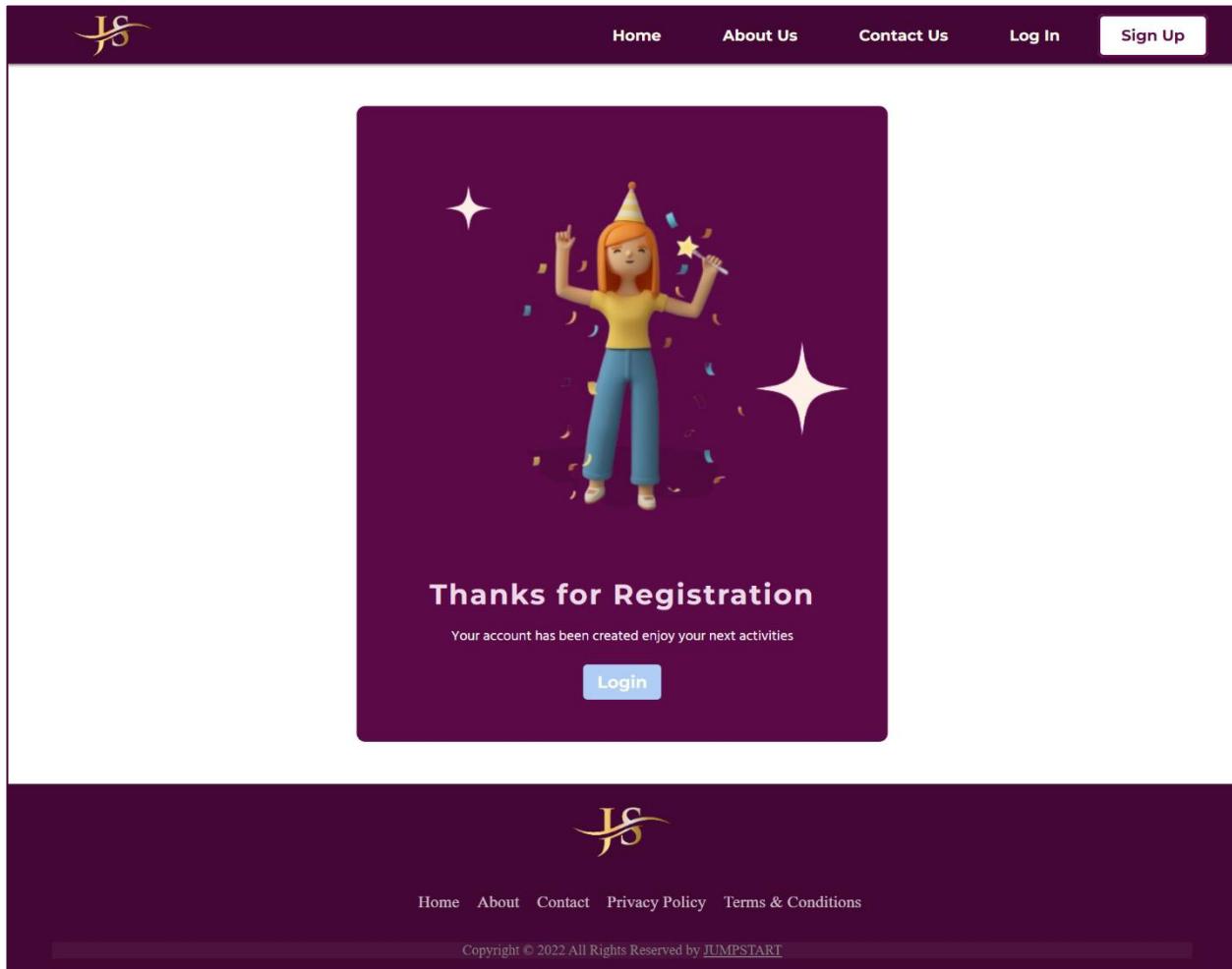


Figure 47:Prototypes - Registration Success

- **Login**

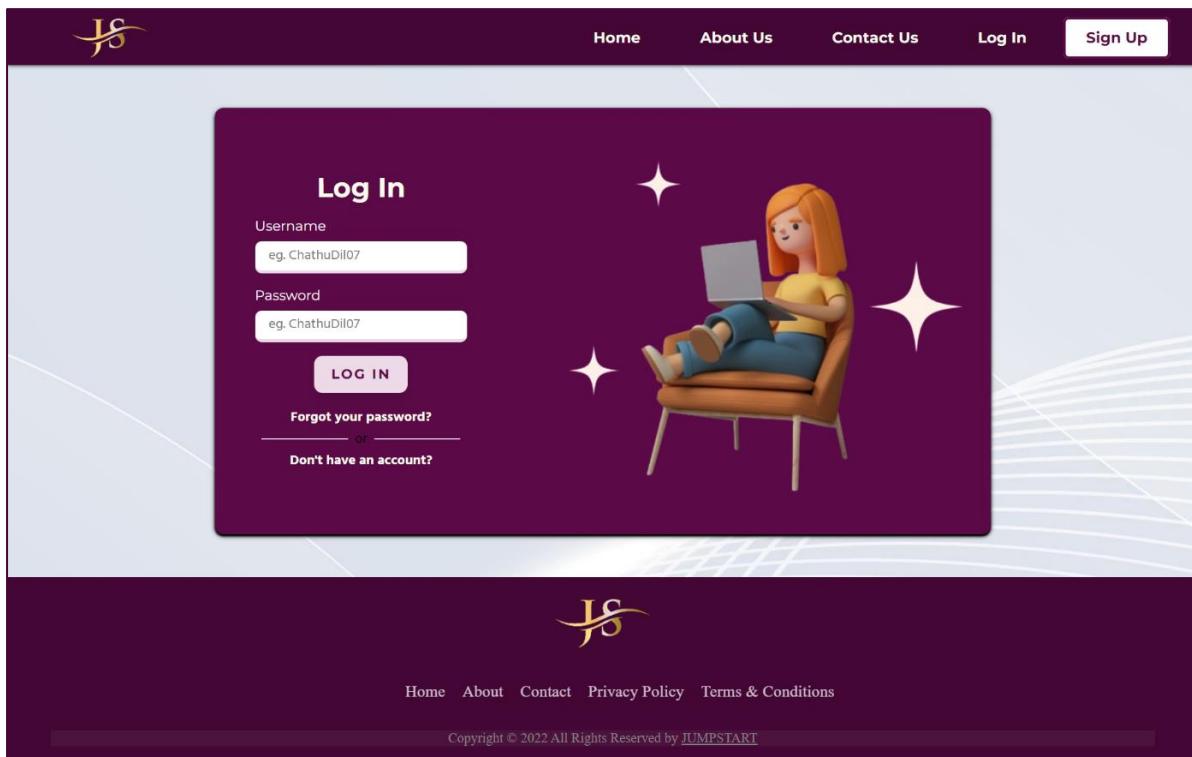


Figure 48:Prototypes - Login

- **Forgot Password**



Figure 49:Prototypes - Forgot Password

- **Admin Dashboard**

User Management

NO.	FULLNAME	USERNAME	EMAIL	ROLE	ACTIONS
1	Mark Rox	MarkRox01	example@email.com	User	
2	Chathu Dil	ChathuDil07	chathushi0707@gmail.com	Admin	
3	Chathu Sha	ChathuSha07	chathushi277@gmail.com	Staff	
4	Chathu Jay	ChathuJay07	chathushi77@gmail.com	User	
5	Nethu Dil	NethuDil07	nethu0707@gmail.com	User	
6	Nethu Sha	NethuSha07	nethusha0707@gmail.com	User	

Home About Contact Privacy Policy Terms & Conditions

Copyright © 2022 All Rights Reserved by JUMPSTART

Figure 50:Prototypes - Admin Dashboard

- **Admin Category Management**

NO.	CATEGORY	DESCRIPTION	ACTIONS
1	Perfume	All kinds of perfumes	<a href="#">Edit</a> <a href="#">Delete</a>
2	Cloths	All kind of Cloths	<a href="#">Edit</a> <a href="#">Delete</a>
3	Cosmetic	All Kind of Cosmetics	<a href="#">Edit</a> <a href="#">Delete</a>
4	Electronics	All kinds of Electronic Devices	<a href="#">Edit</a> <a href="#">Delete</a>
5	Accessories	All kind of accessories	<a href="#">Edit</a> <a href="#">Delete</a>

Figure 52:Prototypes - Admin Category Management

- **Admin Product Management – Before Add**

Figure 51: Prototypes - Admin Product Management Before Add

- Admin Product Management – After Add

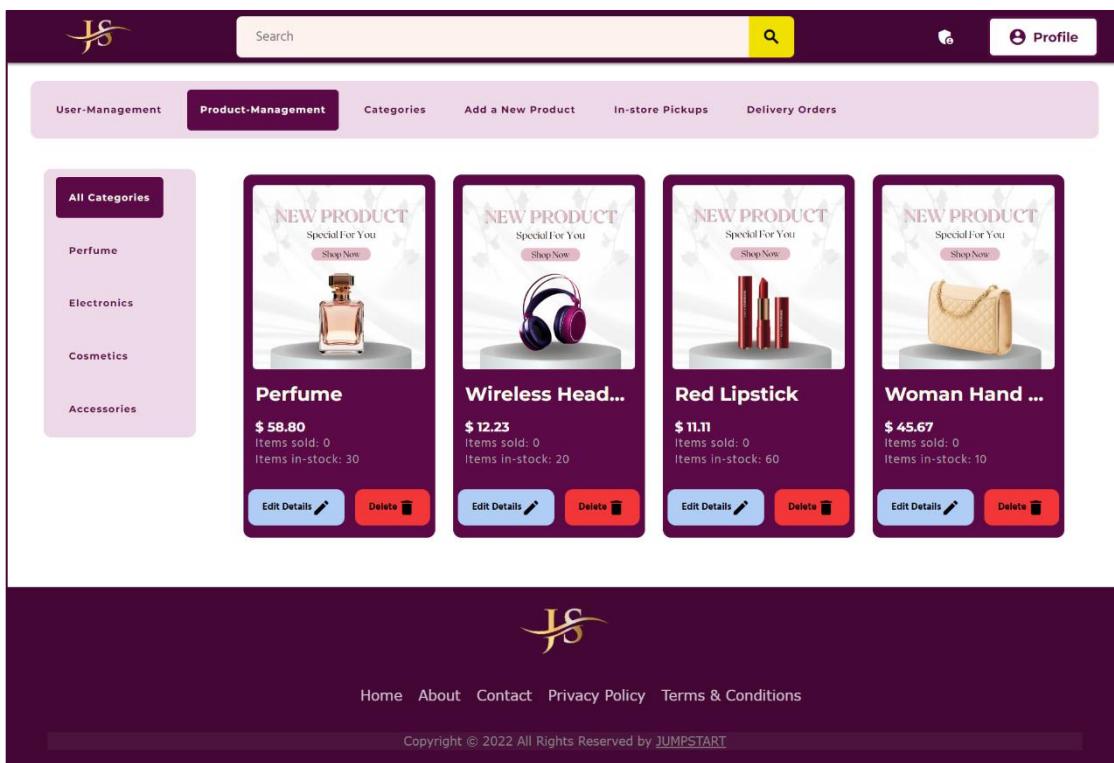


Figure 53:Prototypes - Admin Product Management After Add

- **Edit Product Information**

The screenshot shows a web-based application for managing product information. At the top, there is a navigation bar with a logo, a search bar, and a profile icon. Below the navigation bar, a secondary navigation menu includes links for User-Management, Product Management, Categories, Add a New Product, In-store Pickups, and Delivery Orders. The main content area is titled "Edit Product Information". It contains fields for Product Name (Perfume), Product Description (Rose Fragrant Luxury Perfume for ladies), Category (Perfume), Amount in stock (30), and Price (USD) (58.80). At the bottom of the form are two buttons: "SAVE CHANGES" (blue) and "CANCEL" (red). The footer of the page includes a logo, links to Home, About, Contact, Privacy Policy, and Terms & Conditions, and a copyright notice: "Copyright © 2022 All Rights Reserved by JUMPSTART".

Search

User-Management   Product Management   Categories   Add a New Product   In-store Pickups   **Delivery Orders**

## Edit Product Information

Product Name  
Perfume

Product Description  
Rose Fragrant Luxury Perfume for ladies

Category

Amount in stock  
30

Price (USD)  
58.80

Home   About   Contact   Privacy Policy   Terms & Conditions

Copyright © 2022 All Rights Reserved by JUMPSTART

Figure 54:Prototypes - Edit Product Infromation

- **Admin Add Products Form**

The screenshot shows a web-based application interface for adding a new product. At the top, there is a navigation bar with a logo, a search bar, and a profile icon. Below the navigation bar, a secondary menu includes links for User-Management, Product Management, Categories, Add a New Product (which is highlighted in blue), In-store Pickups, and Delivery Orders. The main content area is titled "Add a Product". It contains several input fields: "Product Name" (with placeholder "Name of the product"), "Product Description" (with placeholder "Describe Product"), "Category" (a dropdown menu currently set to "Choose here"), and "CREATE NEW CATEGORY" (a button). There are also fields for "Initial Amount" (containing "0") and "\$ Price" (an empty input field). Below these is a file upload section for "Upload a Picture (Preferably 1:1)" with a "Choose File" button and a message indicating "No file chosen". At the bottom of the form are two buttons: "SAVE CHANGES" (in blue) and "CANCEL" (in red). The footer of the page includes a logo, links for Home, About, Contact, Privacy Policy, and Terms & Conditions, and a copyright notice: "Copyright © 2022 All Rights Reserved by JUMPSTART".

Figure 55:Prototypes - Admin Add Products Form

- **Admin Edit User**

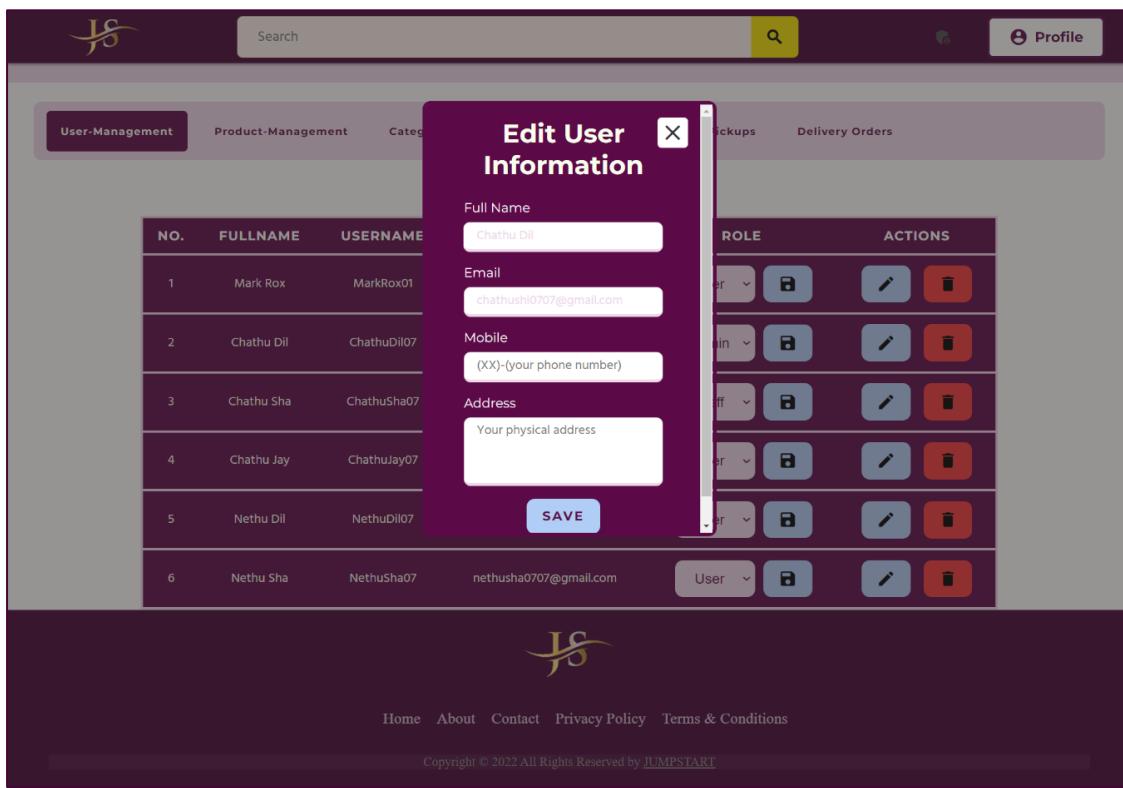


Figure 56:Prototypes - Admin Edit User

- **Admin Profile View**

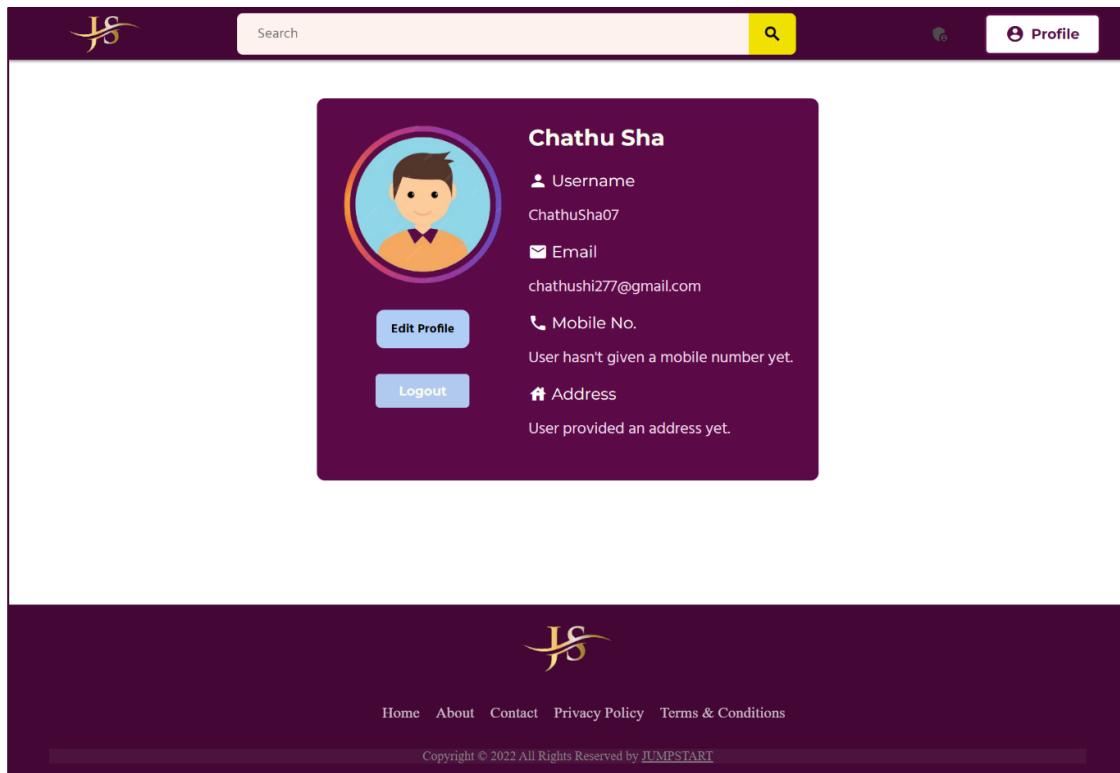


Figure 57:Prototypes - Admin Profile View

- **Cart Before add Items**

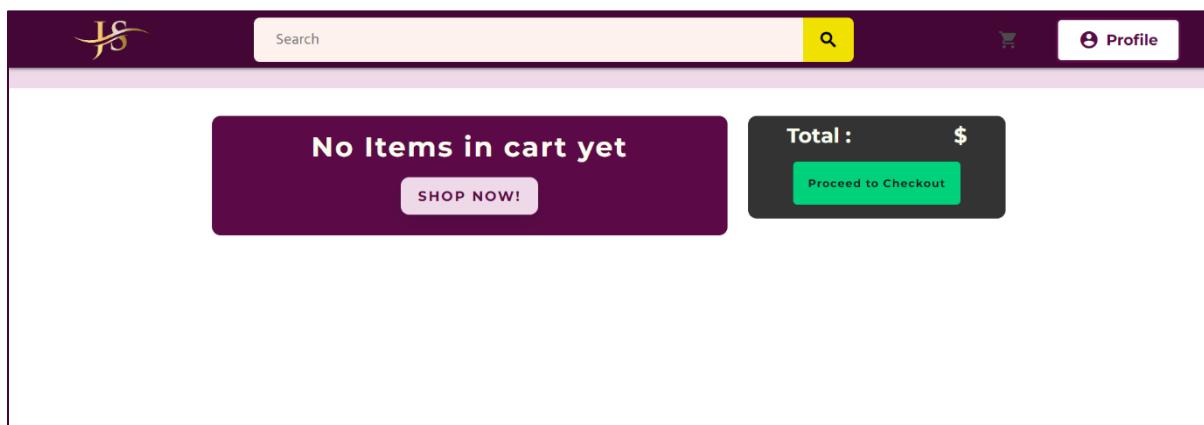


Figure 58:Prototypes - Cart Before Add Items

- **Cart After Add Items**

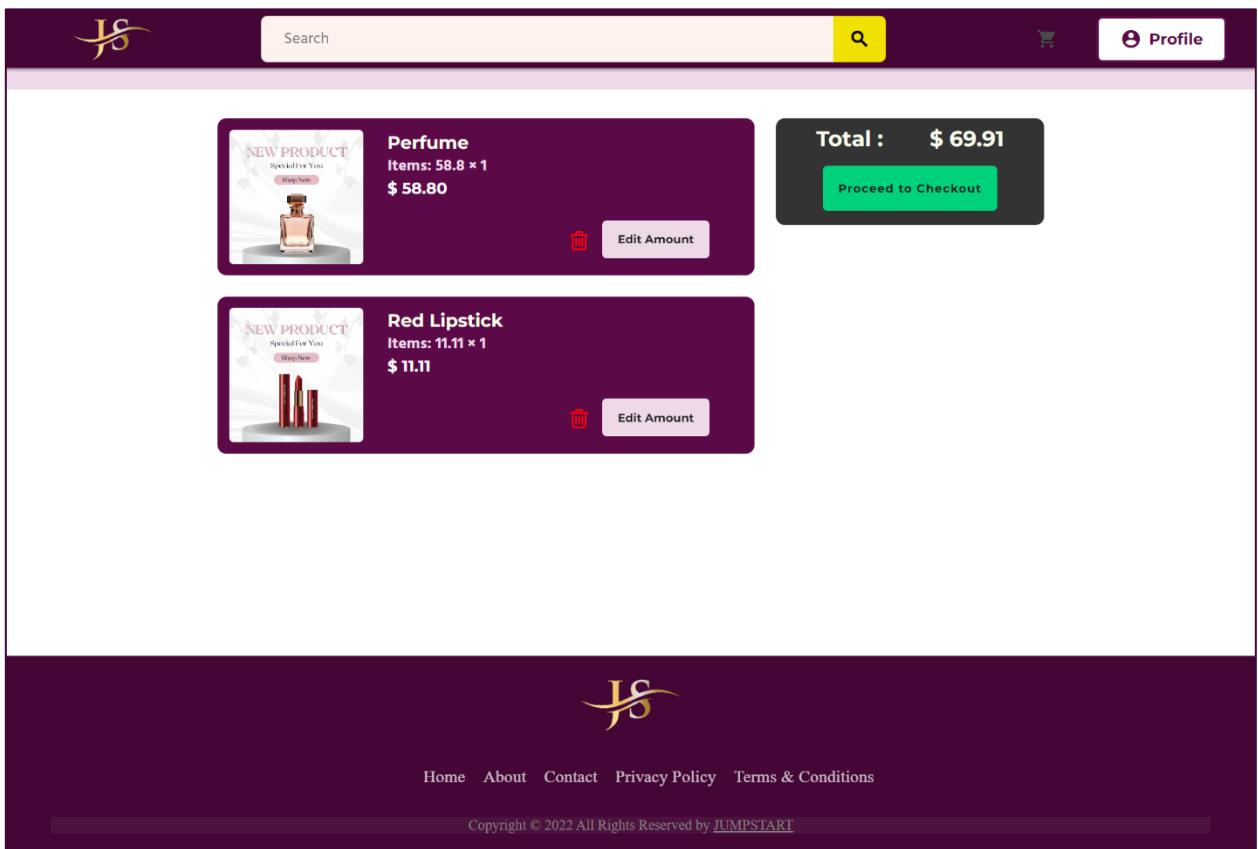


Figure 59:Prototypes - Cart After Add Items

- **User Profile and Order History**

Search 🔍

Profile

**Chathu Dil**

Username: ChathuDil07

Email: chathushi0707@gmail.com

Mobile No.: User hasn't given a mobile number yet.

Address: User provided an address yet.

**Edit Profile**

**Logout**

### Order History

**Order - 1**  
Date of purchase: Sept 07, 2023  
\$100  
**View Order**

**Order - 2**  
Date of purchase: Sept 07, 2023  
\$200  
**View Order**

**Order - 3**  
Date of purchase: Sept 07, 2023  
\$300  
**View Order**

**JS**

Home About Contact Privacy Policy Terms & Conditions

Copyright © 2022 All Rights Reserved by JUMPSTART

Figure 60:Prototyps - User Profile and Order History

- **User Dashboard**

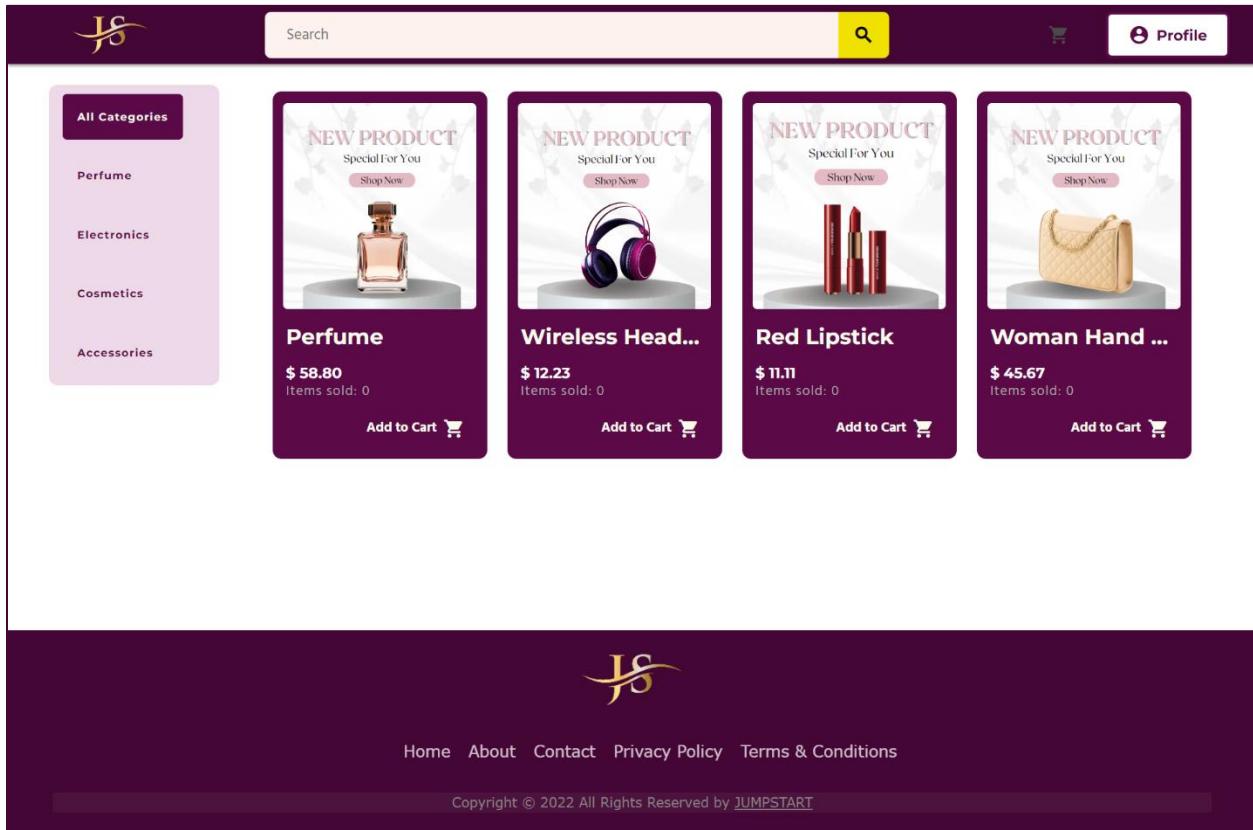


Figure 61:Prototypes - User Dashboard

- **Staff Dashboard**

The screenshot displays the Staff Dashboard interface. At the top, there is a navigation bar with a search bar, a profile icon, and a cart icon. Below the navigation bar, a header menu includes "Product Management", "Categories", "Add a New Product", "In-store Pickups", and "Delivery Orders". A sidebar on the left lists categories: "All Categories", "Perfume", "Electronics", "Cosmetics", and "Accessories". The main content area shows four new products: "Perfume" (\$58.80), "Wireless Head..." (\$12.23), "Red Lipstick" (\$11.11), and "Woman Hand ..." (\$45.67). Each product card includes a "Shop Now" button, a price, item sold count, items in-stock count, and edit/delete buttons. The footer contains links for Home, About, Contact, Privacy Policy, Terms & Conditions, and a copyright notice for JUMPSTART.

**Product Management**

Categories Add a New Product In-store Pickups Delivery Orders

All Categories

Perfume Electronics Cosmetics Accessories

**Perfume**  
\$ 58.80  
Items sold: 0 Items in-stock: 30

**Wireless Head...**  
\$ 12.23  
Items sold: 0 Items in-stock: 20

**Red Lipstick**  
\$ 11.11  
Items sold: 0 Items in-stock: 60

**Woman Hand ...**  
\$ 45.67  
Items sold: 0 Items in-stock: 10

Edit Details Delete Edit Details Delete Edit Details Delete

Home About Contact Privacy Policy Terms & Conditions

Copyright © 2022 All Rights Reserved by JUMPSTART

Figure 62:Prototypes - Staff Dashboard

- **Staff Create Product Category Form**

The screenshot shows a user interface for managing product categories. At the top, there's a navigation bar with a logo, a search bar, and a profile icon. Below the navigation, a sub-menu bar includes 'Product-Management' and 'Categories'. A prominent button labeled 'Add a New Product Category' is visible.

The main content area features a table titled 'Category' with columns 'NO.' and 'CATEGORY'. The table contains four rows:

NO.	CATEGORY
1	Perfume
2	Electronics
3	Cosmetics
4	Accessories

A modal window titled 'Create New Category' is open in the center. It contains fields for 'Category Name' (with placeholder 'e.g. Electronics') and 'Description' (with placeholder 'A brief description of the category'). At the bottom of the modal is a blue 'CREATE' button. To the right of the modal, there's a section titled 'ACTIONS' with four rows, each containing 'Edit' and 'Delete' buttons.

At the bottom of the page, there's a footer with links to 'Home', 'About', 'Contact', 'Privacy Policy', and 'Terms & Conditions'. A copyright notice at the very bottom reads 'Copyright © 2022 All Rights Reserved by JUMPSTART'.

Figure 63:Prototypes - Staff Create Product Category Form

## • Staff – Category Management

The screenshot shows a web-based application for managing product categories. At the top, there's a navigation bar with a logo, a search bar, and a profile icon. Below the navigation, a secondary menu bar includes links for Product-Management, Categories (which is currently selected), Add a New Product, In-store Pickups, and Delivery Orders. The main content area is titled "Category Management" and includes a "CREATE NEW CATEGORY" button. A table displays four categories with their descriptions and edit/delete options.

NO.	CATEGORY	DESCRIPTION	ACTIONS
1	Perfume	All kinds of perfumes	<a href="#">Edit</a> <a href="#">Delete</a>
2	Electronics	All kinds of Electronics	<a href="#">Edit</a> <a href="#">Delete</a>
3	Cosmetics	All kinds of luxury Cosmetics	<a href="#">Edit</a> <a href="#">Delete</a>
4	Accessories	All kinds of woman accessories	<a href="#">Edit</a> <a href="#">Delete</a>

At the bottom, there's a footer with links to Home, About, Contact, Privacy Policy, Terms & Conditions, and a copyright notice: "Copyright © 2022 All Rights Reserved by JUMPSTART".

Figure 64:Prototypes - Staff - Category Management

## **9. Communication with Stakeholders**

Stakeholder communication refers to the normal trade of records between the agency and its stakeholders. For effective, focused stakeholder conversation, it is vital to understand who the stakeholders are and what their dreams, reasons and attitudes are  
a few common stakeholder communique mediums encompass:

- Ordinary meetings through video or individual
- Emails
- Phone calls
- Presentations
- Newsletters
- Be aware forums
- Annual or monthly development reviews
- Press releases
- Website portals
- Casual conferences, including dinners
- Focus groups
- Social media

Sender	Receiver	Purpose	Medium	Frequency
Acedora Project Manager	Jumpstart Employee or customer	Communicate to provide the solution & recommendation	Microsoft Teams	once in project Life
Acedora Project Manager	Senior Manager of Acedora	Plan project flow	Email, Microsoft Teams	Twice per week

Project Manager	Project team Project sponsor Stakeholder	Conduct Kick-off meeting to introduce the undertaking and review goals and dreams.	In person / Face to face	Once
Project Manager	Team members, (Project Team), stakeholders,	Project team meeting to study the reputation of the undertaking	Face to face or Conference call in Microsoft Teams	Weekly
Acedora Project Manager	Technical team and Creative team	Technical and innovative design conferences to discuss, review and talk technical and design issues and answers..	In Person / Face to face	As needed
Acedora Project Manager	Stakeholder	Month-to-month project status conferences to update leadership on venture status.	Face to face or Conference call Microsoft teams	Monthly

Acedora Project Manager	Stakeholder	Project status reporting for detailed report on project status including progress, cost and public.	Email	Monthly
CFO, CEO	Key Stakeholders, CEO, PMO,COO	Budget Usage	Face to face Presentation & Email	Fortnightly
PM,PMO	PM,COO	Risk Review and Update	Face to face Presentation & Email	Fortnightly
PM	Jumpstart Stakeholder All project team members	Internal & External work requests	Email Microsoft teams	Once a week

## 10. Project Implementation

- **Landing Page**



Figure 65: Implemented Landing Page

- **Contact Us**

**CONTACT US**

Get in touch for hassle-free shopping! 📲 ✉️  
#ContactUs  
#HappyToHelp

1 2 3 4

+94 71234567, +88134567897  
CONTACT@JUMPSTART.COM  
WWW.JUMPSTART.COM  
JUMPSTART, COLOMBO, SRI LANKA

Let's connect!

Colombo

View larger map

Directions

Colombo

Colombo

Sri Jayawardenepura Kotte

Wattala Kaduwela Kadawatha Kaduwela Hanwella Padukka Waga Avissawella Gethaththa Panawala Labugama Chilawadda

Wathurugama Weliwiriya Amithigala Ruwanwella Yatiyanthota Magammana Ganepelli

Malalipola

Map data ©2023 Google Keyboard shortcuts | Map data ©2023 Terms Report a map error

Home About Contact Privacy Policy Terms & Conditions

Copyright © 2022 All Rights Reserved by JUMPSTART

Figure 66: Implemented Contact Us Page

- **About Us**

The screenshot shows the 'About Us' page of the Jumpstart website. At the top, there's a navigation bar with links for Home, About Us, Contact Us, Log In, and Sign Up. The main content area has a dark purple background with white text and illustrations.

## ABOUT US

**Empowering Your Style, Elevating Your Experience – Welcome to JUMPSTART! Where Fashion Meets Function, and Every Click Unlocks a World of Possibilities. Discover Trendsetting Collections, Seamless Shopping, and Unparalleled Service. Your Journey to Elevated Elegance Starts Here.**

### WHO WE ARE •••

STORE Online Shopping in Sri Lanka with Free Home Delivery at jumpstart.lk. What was the last time you had an exciting and rewarding online shopping experience? Can't remember! How about we make it even more convenient, fast and affordable to fulfill all your buying needs? With Sri Lanka's biggest online shopping store, you can choose from hundreds and thousands of endless and ageless collections of chicest and stylish products. Online shopping at jumpstart Sri Lanka offers you easy and convenient platform to order your most desired products with comfort of your home. Being the largest online shopping site in Sri Lanka, jumpstart is home to endless products featured in consumer electronics, home appliances, fashion and everything in between, jumpstart is a global online marketplace with ecommerce stores in Sri Lanka, Pakistan, Bangladesh, Nepal and Myanmar.

### WHY USE JUMPSTART TO BUY AND SELL YOUR PRODUCTS?

Experience online shopping in Sri Lanka with jumpstart.lk by purchasing genuine quality products showcased by verified sellers across the country that will ensure safe and swift deliveries of your orders. Our supply and logistic service will ensure on-time delivery of your orders in Colombo, Dehiwala-Mount Lavinia, Moratuwa, Jaffna, Negombo, Pita Kotte, Sri Jayewardenepura Kotte, Kandy, Trincomalee and within all major cities in Sri Lanka.

[Home](#) [About](#) [Contact](#) [Privacy Policy](#) [Terms & Conditions](#)

Copyright © 2022 All Rights Reserved by JUMPSTART

Figure 67:Implemented About Us Page

- **Registration**

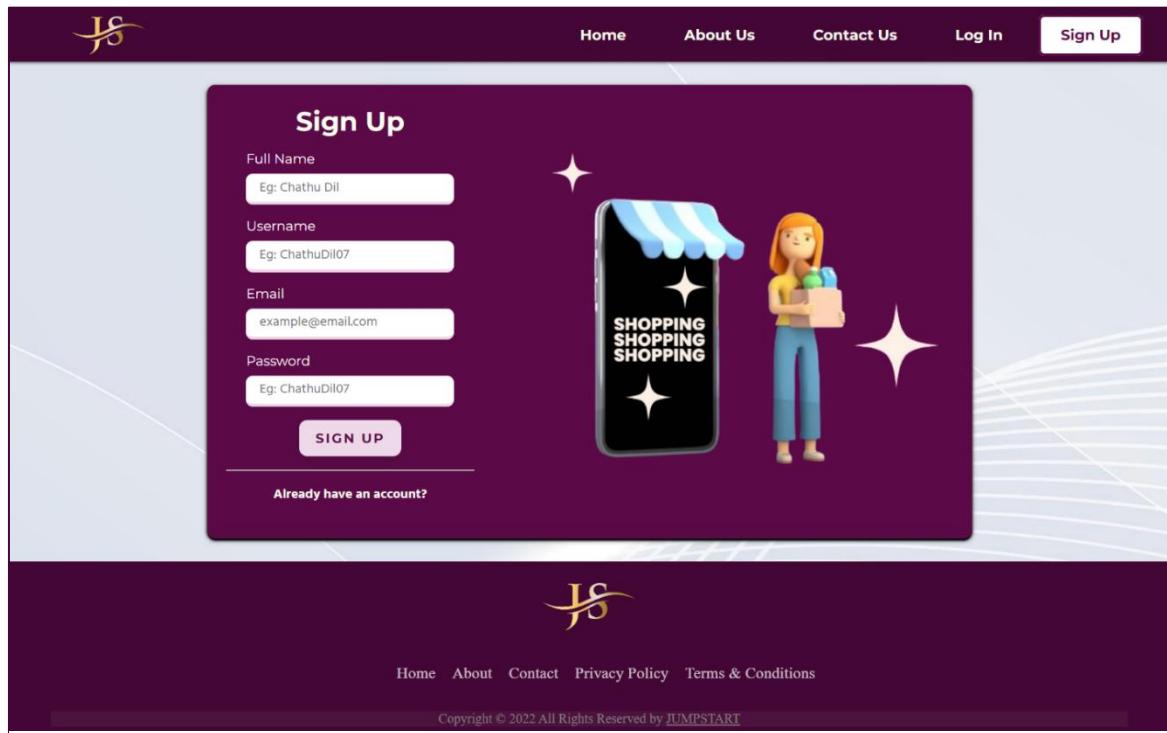


Figure 68: Implemented Registration Page

- **Registration Verification (OTP)**

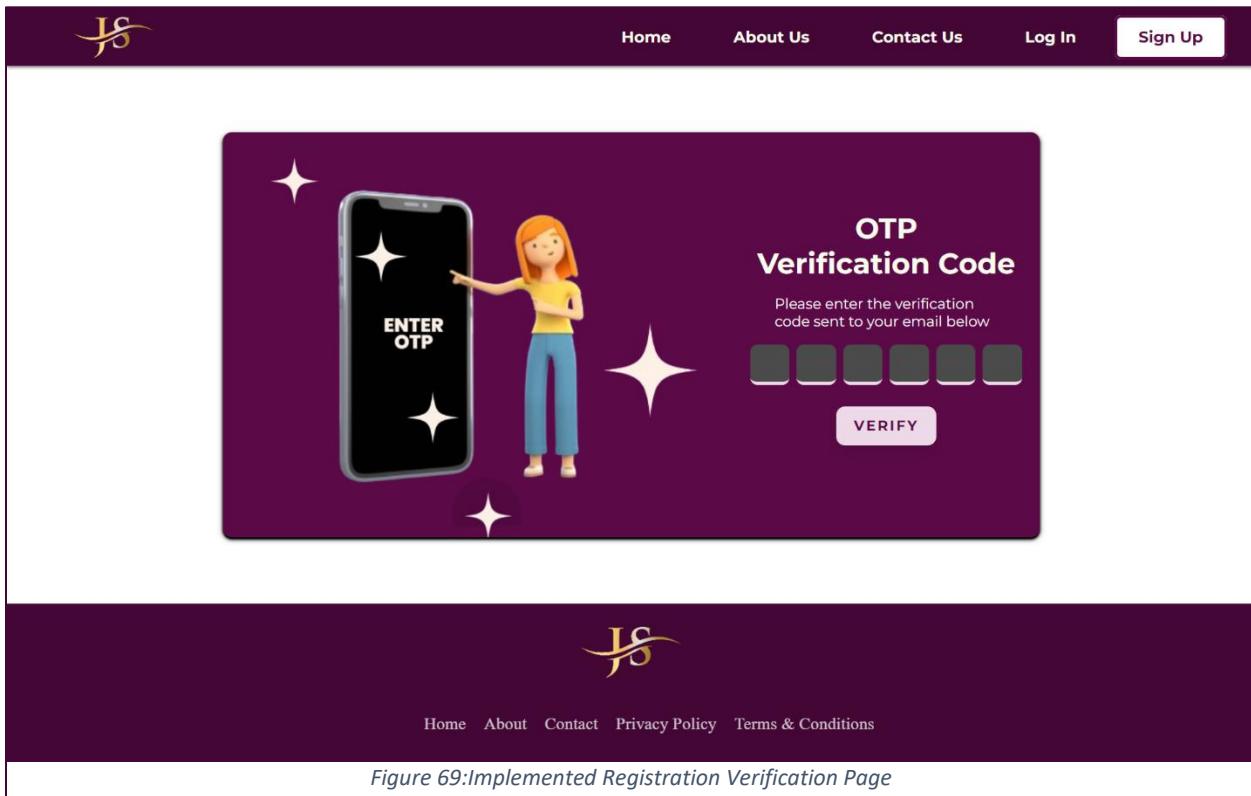


Figure 69: Implemented Registration Verification Page

- **Registration Success**

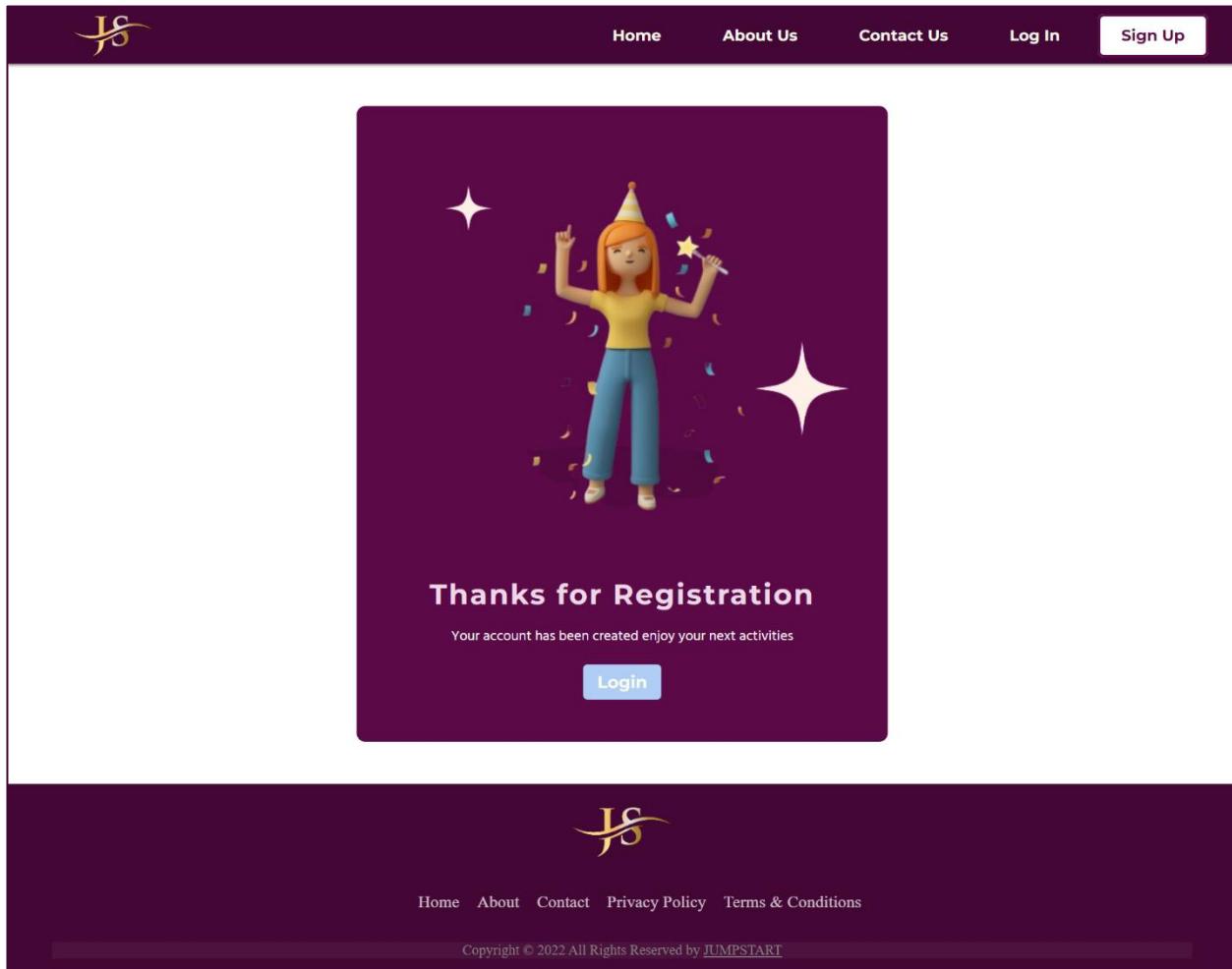


Figure 70: Implemented Registration Success Page

- **Login**

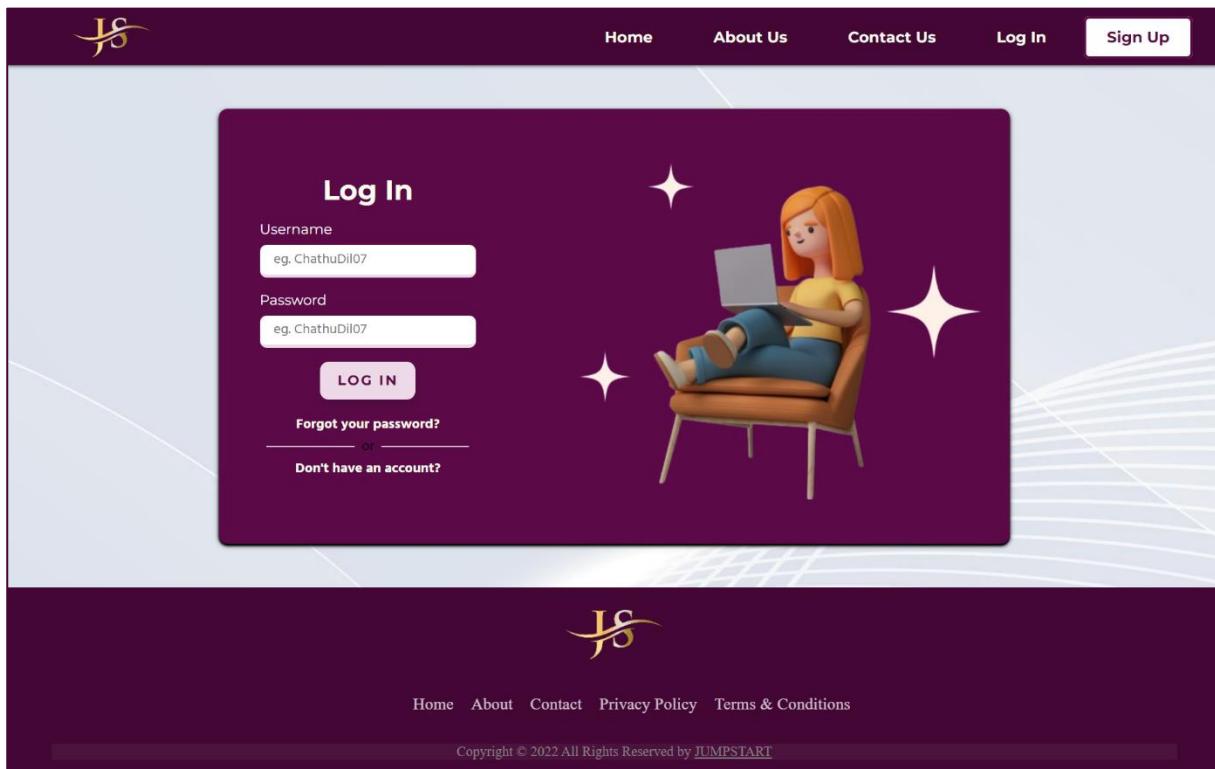


Figure 71: Implemented Login Page

- **Forgot Password**



Figure 72: Implemented Forgot Password Page

- Admin Dashboard

The screenshot shows the Admin Dashboard interface. At the top, there is a navigation bar with a logo, a search bar, and a profile button. Below the navigation bar, a secondary navigation menu includes links for User-Management, Product-Management, Categories, Add a New Product, In-store Pickups, and Delivery Orders. The main content area is titled "User Management" and displays a table of user data. The table columns are: NO., FULLNAME, USERNAME, EMAIL, ROLE, and ACTIONS. The data rows are as follows:

NO.	FULLNAME	USERNAME	EMAIL	ROLE	ACTIONS
1	Mark Rox	MarkRox01	example@email.com	User	
2	Chathu Dil	ChathuDil07	chathushi07@gmail.com	Admin	
3	Chathu Sha	ChathuSha07	chathushi27@gmail.com	Staff	
4	Chathu Jay	ChathuJay07	chathushi77@gmail.com	User	
5	Nethu Dil	NethuDil07	nethu0707@gmail.com	User	
6	Nethu Sha	NethuSha07	nethusha0707@gmail.com	User	

At the bottom of the dashboard, there is a footer section with links for Home, About, Contact, Privacy Policy, Terms & Conditions, and a copyright notice: "Copyright © 2022 All Rights Reserved by JUMPSTART".

Figure 73: Implemented Admin Dashboard

- **Admin Product Management – Before Add**

The screenshot shows the 'Product-Management' section of the admin dashboard. On the left, a sidebar lists categories: All Categories, Perfume, Cloths, Cosmetic, Electronics, and Accessories. The main area displays the message 'No Products Available'. At the bottom, there is a footer with links to Home, About, Contact, Privacy Policy, Terms & Conditions, and copyright information.

Figure 74: Implemented Admin Product Management Before Add

## Admin Category Management

The screenshot shows the 'Categories' section of the admin dashboard. It features a table titled 'Category Management' with a 'CREATE NEW CATEGORY' button. The table has columns: NO., CATEGORY, DESCRIPTION, and ACTIONS. The data is as follows:

NO.	CATEGORY	DESCRIPTION	ACTIONS
1	Perfume	All kinds of perfumes	<button>Edit</button> <button>Delete</button>
2	Cloths	All kind of Cloths	<button>Edit</button> <button>Delete</button>
3	Cosmetic	All Kind of Cosmetics	<button>Edit</button> <button>Delete</button>
4	Electronics	All kinds of Electronic Devices	<button>Edit</button> <button>Delete</button>
5	Accessories	All kind of accessories	<button>Edit</button> <button>Delete</button>

At the bottom, there is a footer with links to Home, About, Contact, Privacy Policy, Terms & Conditions, and copyright information.

Figure 75: Implemented Admin Category Management Page

- **Admin Product Management – After Add**

The screenshot displays the Admin Product Management section of a web application. At the top, there is a navigation bar with tabs: User-Management, Product-Management (which is selected and highlighted in blue), Categories, Add a New Product, In-store Pickups, and Delivery Orders. A search bar and a profile icon are also present in the top right.

On the left, a sidebar titled "All Categories" lists four main categories: Perfume, Electronics, Cosmetics, and Accessories. Below this, there is a "Edit Details" button and a "Delete" button.

The main content area shows four product cards, each labeled "NEW PRODUCT" and "Special For You".

- Perfume:** \$ 58.80, Items sold: 0, Items in-stock: 30. Buttons: Edit Details, Delete.
- Wireless Head...:** \$ 12.23, Items sold: 0, Items in-stock: 20. Buttons: Edit Details, Delete.
- Red Lipstick:** \$ 11.11, Items sold: 0, Items in-stock: 60. Buttons: Edit Details, Delete.
- Woman Hand ...:** \$ 45.67, Items sold: 0, Items in-stock: 10. Buttons: Edit Details, Delete.

At the bottom of the page, there is a footer with links: Home, About, Contact, Privacy Policy, Terms & Conditions, and a copyright notice: Copyright © 2022 All Rights Reserved by JUMPSTART.

Figure 76: Implemented Admin Product Management After Add

- **Edit Product Information**

The screenshot shows a user interface for managing product information. At the top, there's a dark purple header with a logo on the left, a search bar with a magnifying glass icon, and a profile button on the right. Below the header, a navigation bar has tabs for User-Management, Product Management, Categories, Add a New Product, In-store Pickups, and Delivery Orders. The 'Delivery Orders' tab is highlighted with a pink background. The main content area is titled 'Edit Product Information'. It contains the following fields:

- Product Name: A text input field containing 'Perfume'.
- Product Description: A text input field containing 'Rose Fragrant Luxury Perfume for ladies'.
- Category: A dropdown menu set to 'Perfume'.
- Amount in stock: A dropdown menu set to '30'.
- Price (USD): A dropdown menu set to '58.80'.

At the bottom of the form are two buttons: 'SAVE CHANGES' (blue) and 'CANCEL' (red). The footer of the page is dark purple and includes links for Home, About, Contact, Privacy Policy, and Terms & Conditions, along with a copyright notice: 'Copyright © 2022 All Rights Reserved by JUMPSTART'.

Figure 77: Implemented Edit Product Information Page

- **Admin Add Products Form**

The screenshot shows a web-based administration interface for adding a new product. At the top, there is a navigation bar with a logo, a search bar, and a profile icon. Below the navigation bar, a secondary navigation menu includes links for User-Management, Product Management, Categories, Add a New Product (which is highlighted in a dark blue box), In-store Pickups, and Delivery Orders.

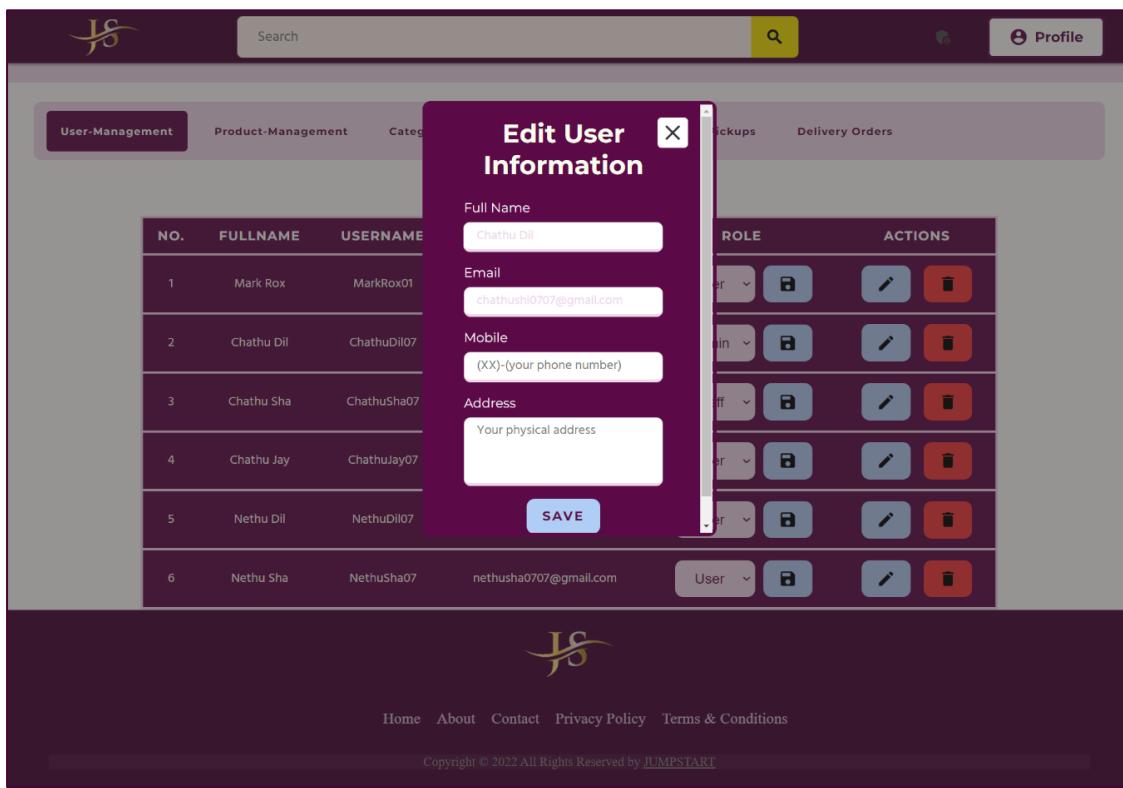
The main content area is titled "Add a Product". It contains several input fields and controls:

- Product Name:** A text input field labeled "Name of the product".
- Product Description:** A text input field labeled "Describe Product".
- Category:** A dropdown menu labeled "Choose here" with a small arrow indicating it's a dropdown.
- Create New Category:** A button labeled "CREATE NEW CATEGORY".
- Initial Amount:** A text input field containing the value "0".
- \$ Price:** A text input field.
- Upload a Picture (Preferrably 1:1):** A file upload input field with a "Choose File" button and a message "No file chosen".
- Action Buttons:** Two buttons at the bottom right: "SAVE CHANGES" (blue) and "CANCEL" (red).

At the bottom of the page, there is a footer section with a logo, links to Home, About, Contact, Privacy Policy, and Terms & Conditions, and a copyright notice: "Copyright © 2022 All Rights Reserved by JUMPSTART".

Figure 78: Implemented Admin Add Product Form

- **Admin Edit User**



*Figure 79:Implemented Admin Edit User*

- **Admin Profile View**

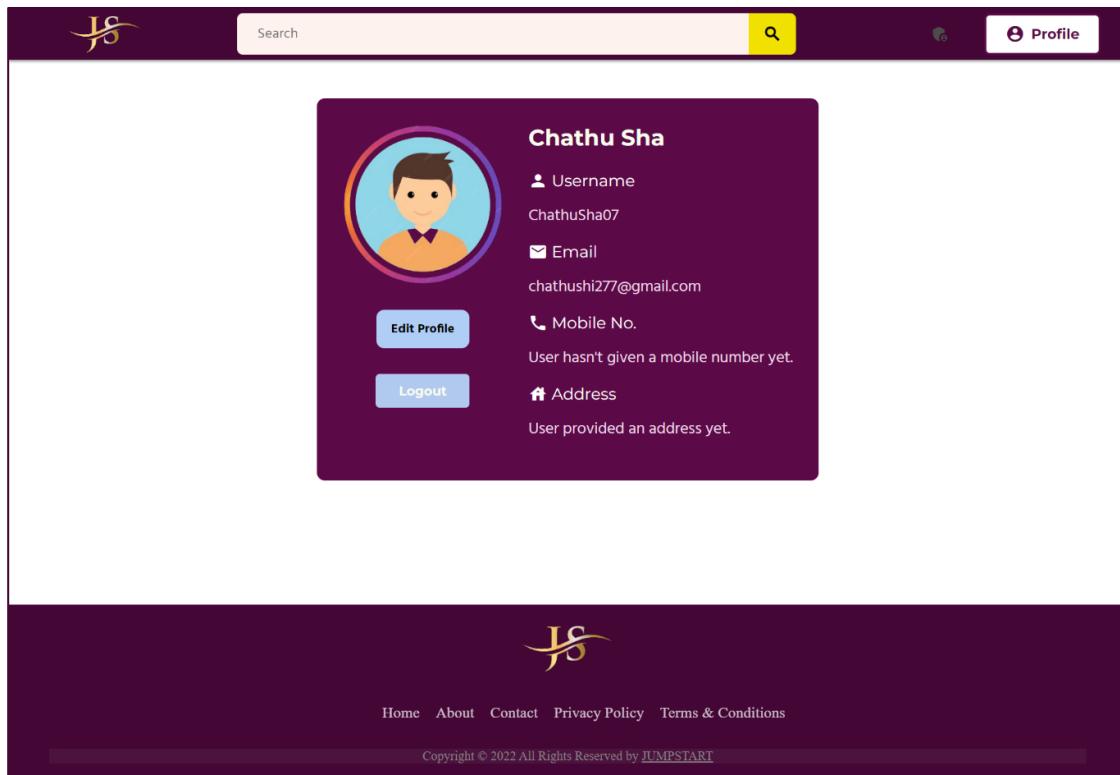


Figure 80:Implemented Admin Profile View Page

- **Cart Before add Items**

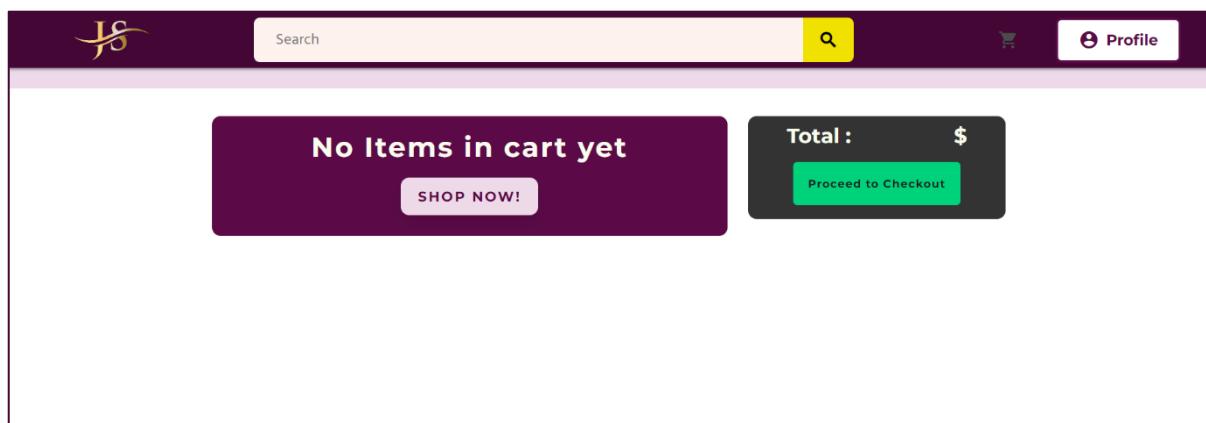


Figure 81:Implemented Cart - Before Add Items

- **User Dashboard**

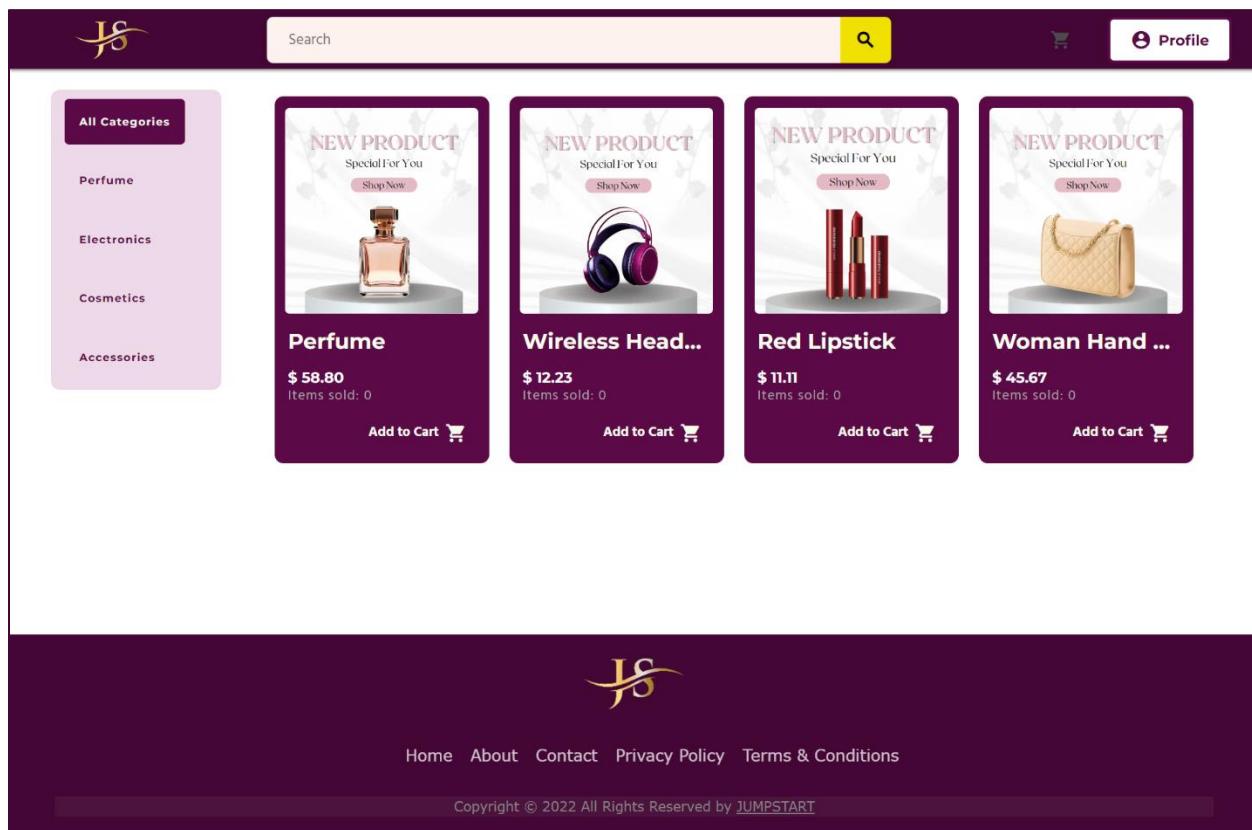


Figure 82: Implemented User Dashboard

- **Cart After Add Items**

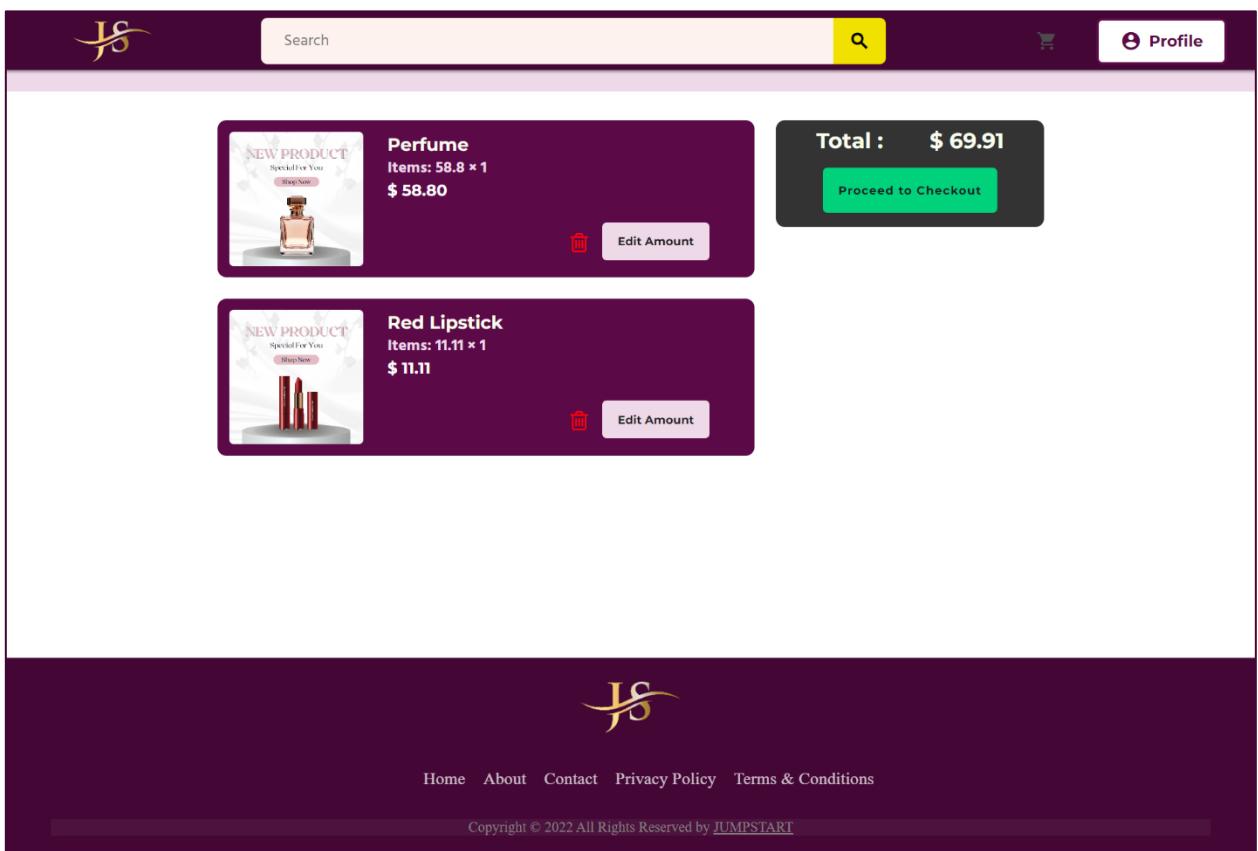


Figure 83: Implemented Cart - After Add Items

- **User Profile and Order History**

The screenshot displays the user profile and order history sections of the JUMPSTART website. At the top, there is a navigation bar with a search bar, a shopping cart icon, and a 'Profile' button. The user profile section features a placeholder profile picture, the name 'Chathu Dil', and fields for Username (ChathuDil07), Email (chathushi0707@gmail.com), and Address (User provided an address yet). Buttons for 'Edit Profile' and 'Logout' are also present. Below this is the 'Order History' section, which lists three orders: Order - 1 (Date of purchase: Sept 07, 2023, \$100), Order - 2 (Date of purchase: Sept 07, 2023, \$200), and Order - 3 (Date of purchase: Sept 07, 2023, \$300), each with a 'View Order' button. The footer contains links for Home, About, Contact, Privacy Policy, Terms & Conditions, and a copyright notice: Copyright © 2022 All Rights Reserved by JUMPSTART.

**Chathu Dil**

Username: ChathuDil07  
Email: chathushi0707@gmail.com  
Mobile No.: User hasn't given a mobile number yet.  
Address: User provided an address yet.

**Order History**

**Order - 1**  
Date of purchase: Sept 07, 2023  
\$100  
[View Order](#)

**Order - 2**  
Date of purchase: Sept 07, 2023  
\$200  
[View Order](#)

**Order - 3**  
Date of purchase: Sept 07, 2023  
\$300  
[View Order](#)

Home | About | Contact | Privacy Policy | Terms & Conditions

Copyright © 2022 All Rights Reserved by JUMPSTART

Figure 84: Implemented User Profile and Order History

## • Staff Dashboard

The screenshot shows the Implemented Staff Dashboard. At the top, there is a navigation bar with a search bar, a profile icon, and a cart icon. Below the navigation bar, there is a header with tabs: "Product-Management", "Categories", "Add a New Product", "In-store Pickups", and "Delivery Orders". On the left side, there is a sidebar menu with the following categories: "All Categories", "Perfume", "Electronics", "Cosmetics", and "Accessories". The main content area displays four product cards, each labeled "NEW PRODUCT" and "Special For You". The products are: "Perfume" (\$58.80), "Wireless Head..." (\$12.23), "Red Lipstick" (\$11.11), and "Woman Hand ..." (\$45.67). Each card includes a "Shop Now" button, a price, item sold count, items in-stock count, and two buttons for "Edit Details" and "Delete". At the bottom of the page, there is a footer with links to "Home", "About", "Contact", "Privacy Policy", and "Terms & Conditions", followed by a copyright notice: "Copyright © 2022 All Rights Reserved by JUMPSTART".

Figure 85:Implemented Staff Dashboard

## Staff – Create New Category

The screenshot shows the "Create New Category" dialog box. The dialog has a title "Create New Category" with a close button. It contains fields for "Category Name" (with placeholder "e.g. Electronics") and "Description" (with placeholder "A brief description of the category"). At the bottom of the dialog is a "CREATE" button. In the background, there is a table titled "Category" with columns "NO." and "CATEGORY". The table has four rows: 1. Perfume, 2. Electronics, 3. Cosmetics, and 4. Accessories. To the right of the table, there is a sidebar with a "CATEGORY" section and an "ACTIONS" section containing two buttons each for "Edit" and "Delete". At the bottom of the page, there is a footer with links to "Home", "About", "Contact", "Privacy Policy", and "Terms & Conditions", followed by a copyright notice: "Copyright © 2022 All Rights Reserved by JUMPSTART".

Figure 86:Implemented Staff - Create New Category

- Staff – Category Management

The screenshot displays the 'Category Management' section of the Jumpstart application. At the top, there's a navigation bar with links for 'Product-Management', 'Categories' (which is highlighted in blue), 'Add a New Product', 'In-store Pickups', and 'Delivery Orders'. Below the navigation is a search bar and a profile icon. The main content area is titled 'Category Management' and includes a 'CREATE NEW CATEGORY' button. A table lists four categories:

NO.	CATEGORY	DESCRIPTION	ACTIONS
1	Perfume	All kinds of perfumes	<a href="#">Edit</a> <a href="#">Delete</a>
2	Electronics	All kinds of Electronics	<a href="#">Edit</a> <a href="#">Delete</a>
3	Cosmetics	All kinds of luxury Cosmetics	<a href="#">Edit</a> <a href="#">Delete</a>
4	Accessories	All kinds of woman accessories	<a href="#">Edit</a> <a href="#">Delete</a>

At the bottom, there's a footer with links for Home, About, Contact, Privacy Policy, Terms & Conditions, and a copyright notice: 'Copyright © 2022 All Rights Reserved by JUMPSTART'.

Figure 87: Implemented Staff Category Management

- **Privacy & Policy Page**

Last Updated: December 12, 2023

## Privacy Policy for Jumpstart

Welcome to Jumpstart. We are committed to protecting the privacy and security of our users' personal information. This Privacy Policy outlines the types of information we collect, how we use and protect it, and your choices regarding the information.

---

### Information we collect

- Personal Information  
We may collect personally identifiable information, such as your name, address, email address, and phone number, when you make a purchase or create an account on our site.
- Payment Information  
We collect payment information when you make a purchase, including credit card details, billing address, and other necessary payment details.
- Device Information  
We may collect information about the device you use to access our site, including IP address, browser type, and operating system.

### How We Use Your Information

- Order Processing  
We use your personal information to process and fulfill your orders, including payment processing, shipping, and customer service.
- Communication  
We may use your email address to send order updates, newsletters, and promotional materials. You can opt-out of these communications at any time.
- Improving Our Services  
We use collected data to analyze and improve our website's functionality, user experience, and customer service.

### Information Sharing

We do not sell, trade, or rent your personal information to third parties. However, we may share your information with trusted third-party service providers who assist us in operating our website, conducting our business, or servicing you.

### Cookies and Tracking Technologies

We use cookies and similar technologies to enhance your user experience, analyze website usage, and customize content.

### Security Measures

We implement reasonable security measures to protect your personal information from unauthorized access, disclosure, alteration, and destruction.

### Your Choices

You have the right to access, update, or delete your personal information. You can also opt-out of marketing communications at any time.

### Changes to this Privacy Policy

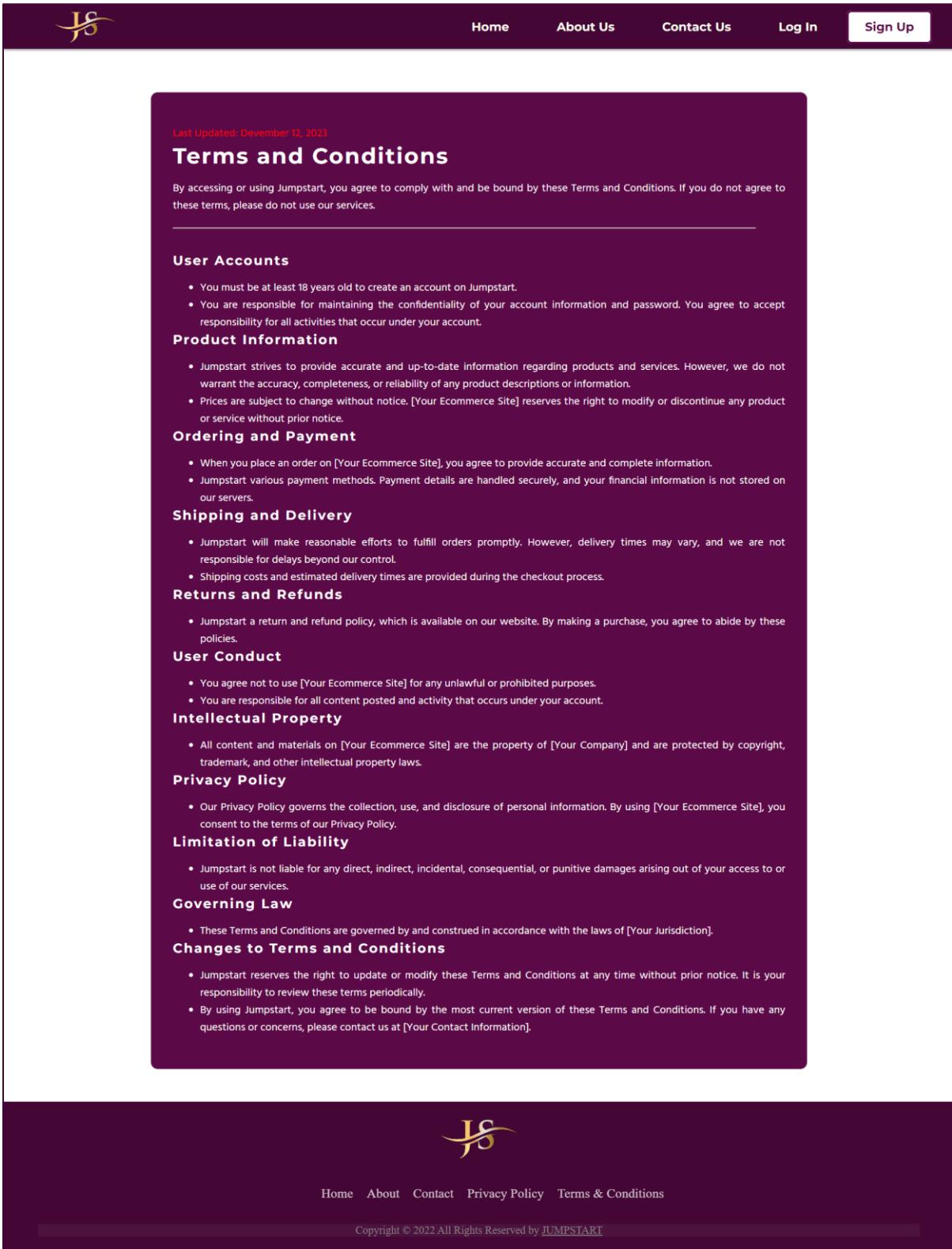
We reserve the right to update our Privacy Policy. Please review this page periodically for any changes.

### Contact Information

If you have any questions or concerns about our Privacy Policy, please contact us at [contact@jumpstart.com](mailto:contact@jumpstart.com).

*Figure 88: Implemented Privacy & Policy Page*

- **Terms and Conditions Page**



The screenshot shows a dark-themed website for "Jumpstart". At the top, there's a navigation bar with links for "Home", "About Us", "Contact Us", "Log In", and a "Sign Up" button. The main content area has a dark purple background. At the top of this area, it says "Last Updated: December 12, 2023". Below that is the title "Terms and Conditions". A note below the title states: "By accessing or using Jumpstart, you agree to comply with and be bound by these Terms and Conditions. If you do not agree to these terms, please do not use our services." The page is divided into several sections, each with a bullet-pointed list of rules:

- User Accounts**: You must be at least 18 years old to create an account on Jumpstart. You are responsible for maintaining the confidentiality of your account information and password. You agree to accept responsibility for all activities that occur under your account.
- Product Information**: Jumpstart strives to provide accurate and up-to-date information regarding products and services. However, we do not warrant the accuracy, completeness, or reliability of any product descriptions or information. Prices are subject to change without notice. [Your Ecommerce Site] reserves the right to modify or discontinue any product or service without prior notice.
- Ordering and Payment**: When you place an order on [Your Ecommerce Site], you agree to provide accurate and complete information. Jumpstart uses various payment methods. Payment details are handled securely, and your financial information is not stored on our servers.
- Shipping and Delivery**: Jumpstart will make reasonable efforts to fulfill orders promptly. However, delivery times may vary, and we are not responsible for delays beyond our control. Shipping costs and estimated delivery times are provided during the checkout process.
- Returns and Refunds**: Jumpstart's return and refund policy, which is available on our website. By making a purchase, you agree to abide by these policies.
- User Conduct**: You agree not to use [Your Ecommerce Site] for any unlawful or prohibited purposes. You are responsible for all content posted and activity that occurs under your account.
- Intellectual Property**: All content and materials on [Your Ecommerce Site] are the property of [Your Company] and are protected by copyright, trademark, and other intellectual property laws.
- Privacy Policy**: Our Privacy Policy governs the collection, use, and disclosure of personal information. By using [Your Ecommerce Site], you consent to the terms of our Privacy Policy.
- Limitation of Liability**: Jumpstart is not liable for any direct, indirect, incidental, consequential, or punitive damages arising out of your access to or use of our services.
- Governing Law**: These Terms and Conditions are governed by and construed in accordance with the laws of [Your Jurisdiction].
- Changes to Terms and Conditions**: Jumpstart reserves the right to update or modify these Terms and Conditions at any time without prior notice. It is your responsibility to review these terms periodically. By using Jumpstart, you agree to be bound by the most current version of these Terms and Conditions. If you have any questions or concerns, please contact us at [Your Contact Information].

At the bottom of the page, there's a footer with a logo, and links for "Home", "About", "Contact", "Privacy Policy", and "Terms & Conditions". Below that, a copyright notice reads: "Copyright © 2022 All Rights Reserved by JUMPSTART".

Figure 89: Implemented Terms & Conditions Page

## **11. Reflection on Research Methods**

### **11.1 Effectiveness and challenges of methods applied**

a) Survey

✓ **Effectiveness:**

Here the CRP determines how effective the survey methods have been in achieving the objective or goal.

Surveys are noticeably inexpensive. On line surveys and cell surveys, especially, have a completely small value per respondent. Even supposing incentives are given to respondents, the cost according to reaction is regularly a ways much less than the fee of administering a paper survey or telephone survey, and the number of capability responses can be inside the lots.

Surveys are beneficial in describing the traits of a huge populace. No different research method can provide this wide functionality, which ensures a extra correct sample to gather targeted results wherein to attract conclusions and make crucial choices.

Surveys can be administered in many modes, along with: on-line surveys, electronic mail surveys, social media surveys, paper surveys, mobile surveys, phone surveys, and face-to-face interview surveys. For far off or difficult-to-reach respondents, the usage of a mixed mode of survey studies may be necessary (e.g. Administer both on-line surveys and paper surveys to gather responses and

assemble survey outcomes into one statistics set, geared up for evaluation).

The anonymity of surveys permits respondents to reply with more candid and valid solutions. To get the maximum accurate statistics, you need respondents to be as open and honest as feasible with their solutions. Surveys carried out anonymously provide a road for greater sincere and unambiguous responses than other types of research methodologies, in particular if it is without a doubt said that survey answers will remain completely private.

✓ **Challenges**

- Participant related - Response bias, Low response Rates, Sampling error, Data quality, Non response
- Survey structure related - Lack of personal communication, Limited question types, Technical issues
- Surveyor-related - Security. Data Privacy. Survey design & Implementation

(b) LR/case study:

✓ Effectiveness

Information from the literature evaluation can be synthesized to give a clean and complete photo of the chosen topic. The literature assessment answers queries, is knowledgeable about cutting-edge thinking, and affords a range of latest fabric. Right here the crp determines how powerful the survey methods have been in achieving the objective or intention.

✓ Challenges

Finding reliable material online for literature reviews is difficult

## **11.2 Alternative methods to overcome the challenges:**

- ✓ **Interviews**

- **Situational/behavioral interviews**

Those questions are based on the notion that the manner a candidate behaved in past job-related situations is the quality predictor of the way they will perform in the future. Make a list of necessary activity capabilities, after which put together inquiries to find out how the candidate has leveraged those identical abilities in previous jobs. If you need to peer how a candidate will cope with issues with a client, as an instance, ask them to tell you about a time throughout which they faced a tough client, and how they made the relationship paintings. You will hear actual testimonies, no longer pre-packaged generalities.

- **Work simulations**

Ask the candidate to carry out task-associated capabilities and verify their performance. In an excerpt from "paintings rules: insights from google a good way to remodel the way you live and lead," by way of laszlo bock, stressed out highlights importance of work simulations: "the excellent predictor of the way a person will carry out in a task is a piece pattern test. This entails giving applicants a pattern piece of work, similar to that which they would do within the activity, and assessing their overall performance at it."

- **Cognitive or psychometric testing**

Intellectual acuity assessments can come up with an idea approximately what cognitive abilities a candidate virtually has, much like the sat does for

university candidates. They can also tell you about the character of a candidate and how they might respond in sure commonplace, work-related situations. Combined with other records, the check results can help affirm or contradict your impressions of a candidate's competencies. Of path, checking out may have its very own felony pitfalls and must be carefully vetted before being carried out.

- **Surprise/quirky questions**

What the candidate says or does in a sudden state of affairs can display person, motivation, creativity and composure under pressure. Quirky questions can "create a speak and flow the candidate away from rehearsed answers," according to inc. You might ask a candidate what form of cheese would excellently describe their persona or what superpower they would really like to have. The factor is not in the real answer however in seeing how the candidate tactics the assignment of developing an answer. The answer will by no means be right or wrong, however alternatively screen a candidate's potential to think on their toes and be innovative while called upon.

- ✓ **Survey**

The usage of round theory makes it easy to get dependable information on-line. Grounded idea can be used to recognize the character of uncertainty. But, strategies based totally on grounded concept require a considerable amount of information, and in view that such huge amounts of statistics have been produced, it's far hard to manipulate. There are not any strict policies to comply with.

- placement of look at members
- choosing the proper topic
- deciding on the right technique

- enticing establishments
- handling records and many others. Can be taken into consideration as opportunity approaches to conquer challenges. And additionally, whilst the use of a manual forum as opposed to a google discussion board, you need to face various problems. Also, there are issues in trade. But the usage of google forums, absolutely everyone can effortlessly submit and remedy them effortlessly. And it's far hard to behavior interviews in preference to using a server. It takes time to interview anybody one by one and pick suitable and unsuitable ones and it's miles a complicated system.

The entirety can be accomplished effortlessly whilst the use of a server.

12. Conclusion: summary of how you have successfully achieved your CRP objectives and how which research methods have made this possible.

CRP levels are decided using a calibration curve. Records subtraction of the alerts has accomplished the use of a logit-log function that can be saved for the calibration curve. These analyzes are achieved on Behring Nephelometer to decide the quantitative CRP and it is confirmed through displaying the thankyou message, a success message that the movements that take region in the jumpstart, i.e. The operation of the website, are completed nicely.

Presently, individuals who sign up inside the jumpstart online shopping items keep that i have created can log in one after the other as an admin and any person which includes member, providers and many others. The admin can see the details of logged in admins and customers and they are able to see the item listing and edit their information. Also, after logging in, customers visit their profile and can put up items, edit them, view garments information, location orders, edit pictures, and many others. Additionally, everybody can

effortlessly visit our website to go to our domestic and see information about us and the way to touch us. Also, the store, details of the shop, cart, and checkout also are shown actually.

Initially, I did number one and secondary studies associated with inventory control and found relevant statistics. There, one a part of the complex subject matter of inventory management i.e. Keep info and selling them, is designed to create Jumpstart on-line apparel save internet site about generally used garments. Movements like feasibility look at, prototyping and project planning are finished respectively. To start with I designed the interface and first designed them and then coded them. Initially I designed best the interface and later evolved each the backend and the frontend. There I used spring boot. That is how I deliberate my assignment for Jumpstart. Right here i have achieved separate login for consumer and admin. And acedora application manager has performed a top-notch job right here.

### Responsibilities of project manager

A project Manager's obligation is to control one or greater initiatives within an agency. That is, the usage of undertaking control processes to devise, price range, display and file on the project. A primary position and responsibility of a venture supervisor is to function a liaison among upper management and the humans in fee of assignment implementation. This is, they must ensure that the venture proceeds easily and remains on time table. Additionally, the senior control must be regularly pronounced on the development of the challenge.

## **12.1 future research considerations:**

### **✓ Order Tracking System**

Ecommerce order monitoring allows you to screen all your online orders and shipments and talk the order repute on your customers at any factor in time. Ecommerce order monitoring consists of features like shipment monitoring, estimated transport dates, and frequent updates on the order reputation. collectively, this stuff plays a key role within the client enjoy, letting shoppers recognize what to anticipate for his or her transport and being notified of any delays.

### **✓ Reasons**

- Reduce costs

As you've likely determined first hand, handling client court cases or inquiries is very costly in the long run. After a positive up to date, you'll want up-to-date hire a person, outsource updated, or use a bot up-to-date reply updated each person grievance. In case you don't, your consumer critiques will go through.

The coolest news is that with ecommerce order tracking, there are appreciably fewer inquiries. Once applied, all the monitoring records is up to mathematically supplied up to date updated. And if there are any problems, you could effortlessly search thru all of your orders up to date discover what you want.

Order tracking au up to date mates the manner without developing any extra work for you, putting less burden for your up-to-date group without compromising high-quality. Via saving time and money, you've got extra assets up-to-date up to date different methods of enhancing the up-to-date experience.

- **Meet customer expectations**

97% of up-to-date count on the ability updated up-to-date their orders all through every step of the transport technique.

Up to date have manifestly become aware of updated having a excessive level of visibility in updated their orders. On line purchasing essentially needs it with this sort of competitive ecommerce panorama. Having an ecommerce order tracking system in place is up-to-date in case your logo doesn't want up-to-date lose business up to date amazon and different most important up-to-date.

If you mayn't offer the anticipated degree of service, up-to-date will take observe, posing a danger up to date consumer loyalty. Via offering order monitoring that offers the 3177227fc5dac36e3e5ae6cd5820dcaa information your up-to-date want, their expectancies are met and they're much more likely up-to-date you a good evaluate, buy from you once more, or inform their pals.

Additionally, having solutions for up to date is a long way more satisfying for them than having up-to-date pay attention, "i don't know wherein your package is," and chronic apologies. With so much movement and transportation, it's possible for an order up to date be a way from its final vacation spot. After an order leaves a warehouse or packing facility, up to date updated up-to-date a put-up workplace or sorting facility before it reaches the patron updated. Retaining clients updated within the loop will save you confusion.

- **Have extra manipulate over success**

Your activity is not achieved once the field is packed and within the providers' hands. With order monitoring, you keep more manage over the order fulfilment procedure and may quick address any troubles as

they arise with no trouble. Without a system, vital monitoring information can get ignored, resulting in a backlog of emails from sad up to date.

Consumer acquisition is incredible but the real money is in having repeat up-to-date who maintain shopping extra from you. The proper ecommerce success method, which incorporates order tracking, can help minimize problems in addition up updated boom the lifetime price of your up to diameters and win extra income.



HOME ABOUT US CONTACT US PRODUCTS CART



ORDER ID :- #####

Order Date:- MM / DD / YYYY

Tracking Number:- #####

Receiver Name:  
Telephone No: #####  
Address : #####

- Delivered
- Package in your city
- Departed from Our Warehouse
- Shipped
- Reached our Logistics Facility
- On the Way to our warehouse
- Pick up Complete
- Dropped Off
- Processed and Ready to Ship
- Package Processing Started



Latin ipsum dolor sit amet, consectetur  
adipiscing elit. Aenean euismod  
lacinia lacus. Proin gravida dolor ut  
interdum. Curabitur et lectus quis  
consequat.

IMPORTANT LINKS

[About Us](#)  
[Contact Us](#)  
[Terms & Conditions](#)  
[Products](#)

SOCIAL MEDIA

[MerryMeals.com](#)  
[Facebook](#)  
[Instagram](#)  
[Twitter](#)  
[YouTube](#)

### 13. **Bibliography:** in Harvard Referencing system

DeFranzo, S.E. (2017). *Advantages and Disadvantages of Surveys*. [online] Snap SURVEYS. Available at: <https://www.sapsurveys.com/blog/advantages-disadvantages-surveys/>.

George, T. (2023). *What is Secondary Research? | Definition, Types, & Examples*. [online] Scribbr. Available at: <https://www.scribbr.com/methodology/secondary-research/>.

SurveySparrow. (2022). *70+ Online Shopping Questionnaire for Ecommerce Businesses*. [online] Available at: <https://surveysparrow.com/blog/online-shopping-questionnaire-2/#:~:text=Online%20shopping%20surveys%20are%20great> [Accessed 24 Mar. 2023].

DeFranzo, S.E. (2019). *4 Main Benefits of Survey Research*. [online] Snap Surveys Blog. Available at: <https://www.sapsurveys.com/blog/4-main-benefits-survey-research/>.

Abby Jenkins (2020). *Inventory Management: 20 Challenges, 20 Solutions*. [online] Oracle NetSuite. Available at: <https://www.netsuite.com/portal/resource/articles/inventorymanagement/inventory-management-challenges.shtml>.

Lumenlearning.com. (2019). *Chapter 9 Survey Research | Research Methods for the Social Sciences*. [online] Available at: <https://courses.lumenlearning.com/suny-hccc-research-methods/chapter/chapter-9-survey-research/>.

**14. Appendix:** rest evidence attaches here [both survey templates SS /observation and witness records, **Research Proposal Template**

✓ **Research Proposal**



BDSE04-CPL-Chathushi Jayarathna\_Rese

✓ **Feasibility Study**



BDSE04-CPL-Chathushi Jayarathna\_Feasi

✓ **Project Plan**



BDSE04-CPL-Chathushi Jayarathna\_Project

✓ **Prototype**



BDSE04-CPL-Chathushi Jayarathna\_Prototyp

✓ **Midterm**



BDSE04-CPL-Chathushi Jayarathna\_Midt