

## Computing Research Project for including Digitalization in Remote working System

### Module Project

**Module:** Computing Research Project

Course: : Computing Research Project by doing digitalization for Remote Workers in Business .

**Start Date : 01/12/2023**

**End Date : 22/12/2023**

**Submission Date: 22/12/2023**

**Learner Name: Chathushi Jayarathna**

**Enrollment ID:**

**Presentation Date:**

# Document History

Version Number	Effective Date of release	Summary of Included Changes	Author
1	6 <sup>th</sup> August 2021	First Edition	Student Name

# 1. Project Definition

## □ Project Background: brief out the scenario

Jumpstart can be a retail company with 750 locations nationwide. Customers are attracted to them because of the high quality and innovation of their products. In the post-Covid 19 era, a surrogate norm of remote working has emerged, disrupting their core business in various ways. They should change their company strategy to make it more customer centric. Jumpstart's Chief Operations Manager contacted Aceadora Tech to resolve the issues. There, a related e-commerce website was created. That is, software engineers developing applications in the Capstone project created a project for the JumpStart retail store, considering the skills required for project research, planning, design, and execution. I have decided to mention here about the most essential clothes that are needed by all women, men and children. For that, Jumpstart created a website as an online clothing store. There you can post and order products, their details, cart, checkout and products. Also, this website has been created for the user and admin so that the related details can be edited.

## □ Project Goal:

- Increasing traffic from social media.
- Creating More Compelling Content.
- Better Use of Email Marketing.
- Improved Shopping Cart Abandonment Rates.
- Increased Conversion Rates.
- Increased Customer Satisfaction.
- Improved Retention/Loyalty Among Customers.

# 2. Project Deliverables

## □ Project Deliverables:

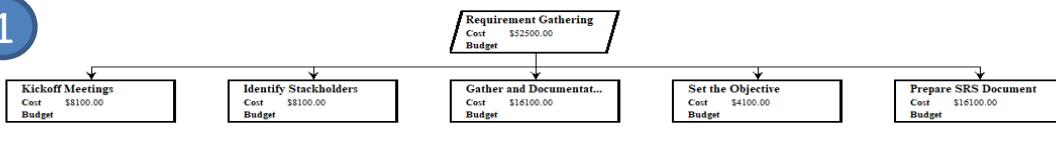
### Project Plan

		Name	Duration	Start	Finish	Predecessors	Resource Names
1		<b>Requirement Gathering</b>	<b>4 days</b>	<b>2/13/23 8:00 AM</b>	<b>2/16/23 5:00 PM</b>		
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>	1	
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>	7	
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>	13	
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>	18	
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>	21	
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>	25	
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

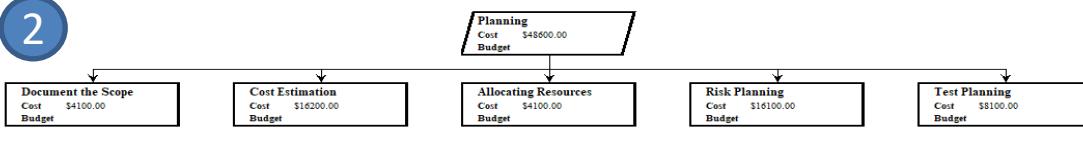
# 2. Project Deliverables

## □ Project Deliverables: WBS

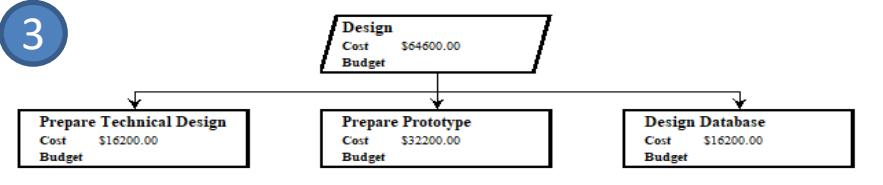
1



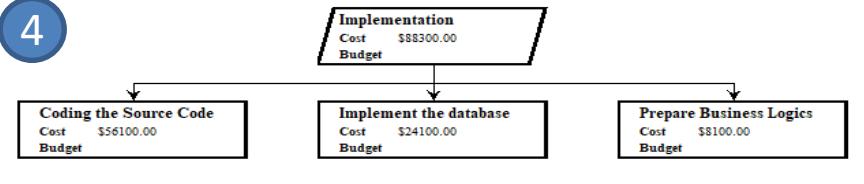
2



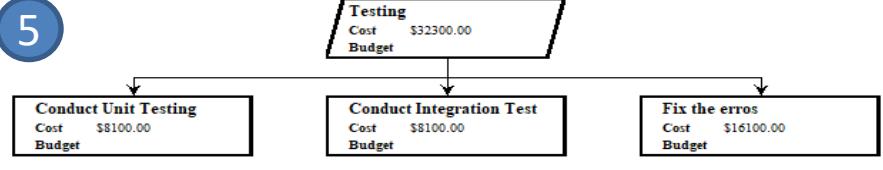
3



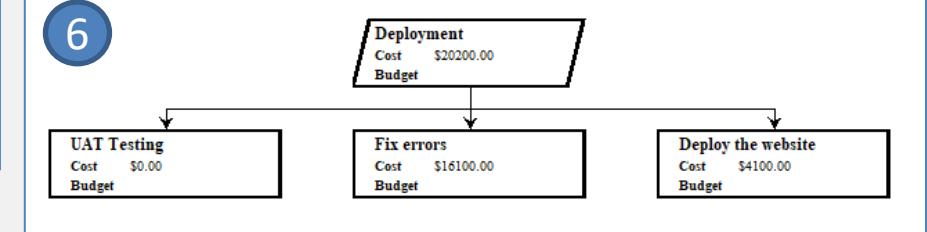
4



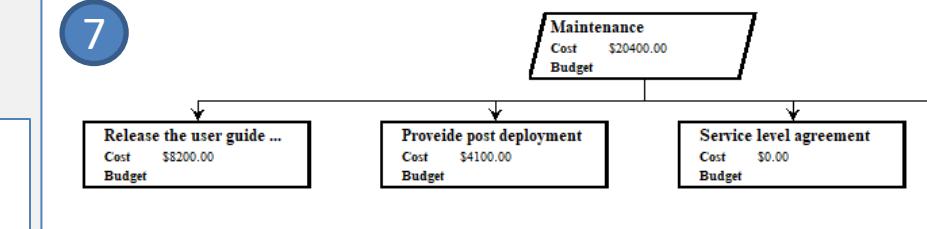
5



6



7



# 2. Project Deliverables

## □ Project Deliverables: Pre Implementation Survey

[Questions](#) [Responses](#) [Settings](#)



### Jumpstart Online Shopping

Form description

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

[https://docs.google.com/forms/d/e/1FAIpQLSdno9tTIEts08HpTyMo\\_VTV7PAh0pFvR\\_DQ1JZv80So1SWarfA/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSdno9tTIEts08HpTyMo_VTV7PAh0pFvR_DQ1JZv80So1SWarfA/viewform?usp=sf_link)

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

Would you like the latest online shopping experience from jumpstart?

- Yes
- No

Your suggestions and recommendations for us

Long-answer text

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

# 2. Project Deliverables

## Project Deliverables: Pre Implementation Survey - Responses

Name  
4 responses

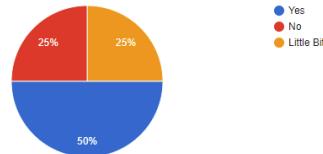
Chathu Jayarathna

Mesandi Yuhansa

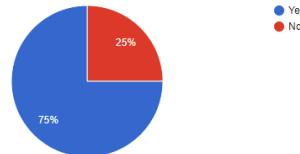
Nethu Akarsha

Leo Ashley

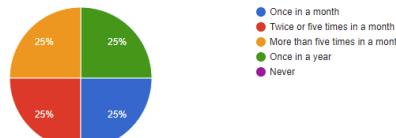
Are you aware of online shopping?  
4 responses



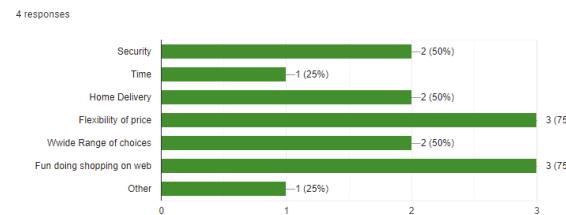
Do you shop online?  
4 responses



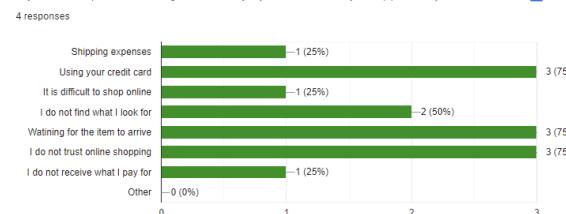
How frequently do you purchase things online?  
4 responses



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



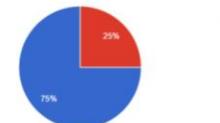
If you do not purchase things online why? (choose as many as applicable)



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



Would you like the latest online shopping experience from jumpstart?



Your suggestions and recommendations for us  
4 responses

Create Speed site

Customers should be able to easily navigate an organization's website

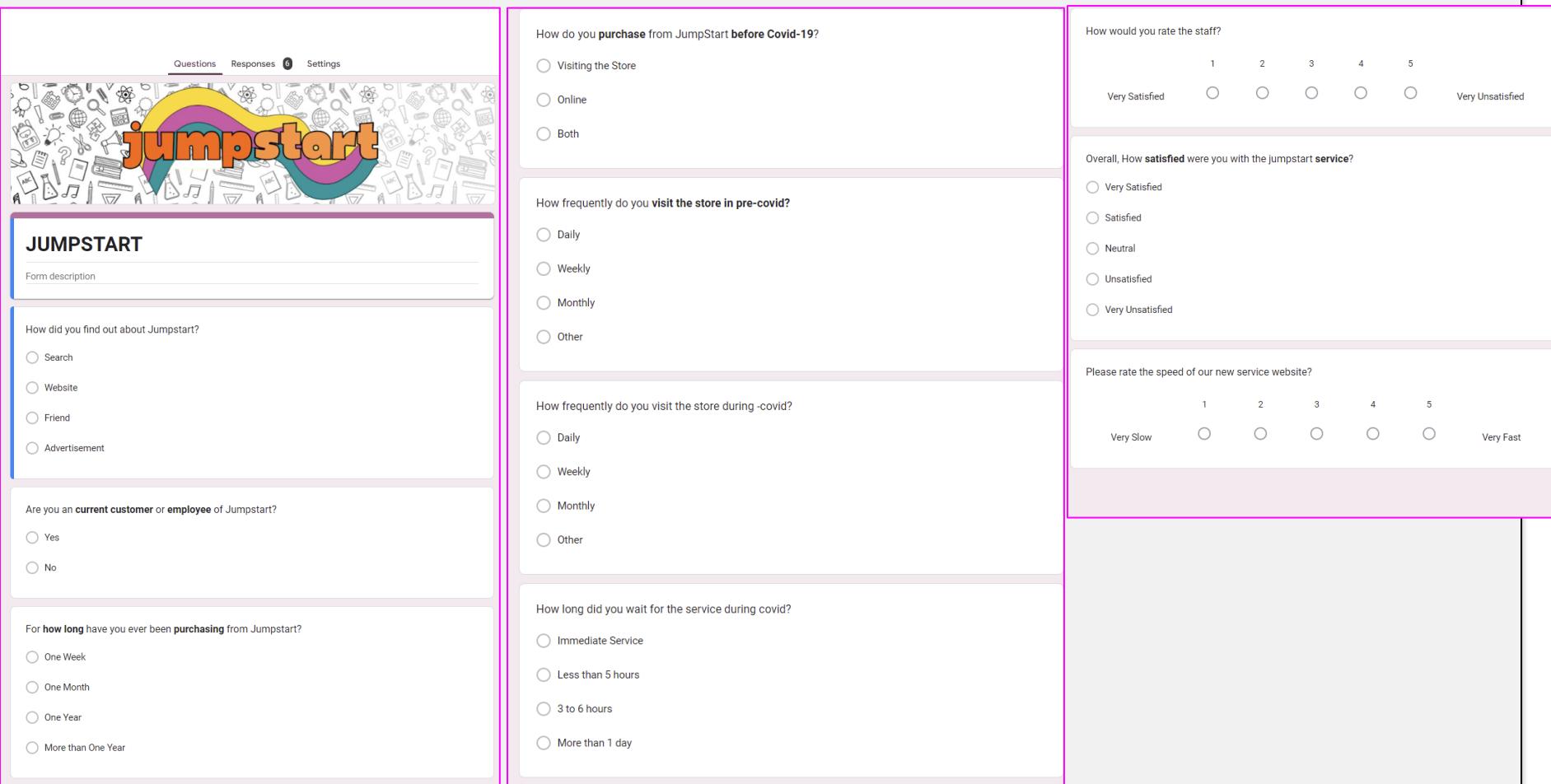
I don't have any suggestions and recommendations

Don't underestimate the power of high quality photographs of products, says Mira Rusek, user experience designer, Usability Matters, a user experience studio

# 2. Project Deliverables

## Project Deliverables: Post Implementation Survey

[https://docs.google.com/forms/d/e/1FAIpQLSdl1Go5RJuW44-g5eulcIFoTiALIkGCkpFzQkcC8XASWFtAWw/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSdl1Go5RJuW44-g5eulcIFoTiALIkGCkpFzQkcC8XASWFtAWw/viewform?usp=sf_link)



The screenshot shows a Google Forms survey titled "jumpstart". The survey consists of several questions and sections:

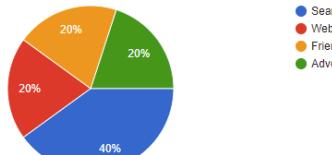
- Header:** Questions (1), Responses (6), Settings.
- Section 1: Purchase Before Covid-19**
  - How do you **purchase** from JumpStart **before Covid-19**?
    - Visiting the Store
    - Online
    - Both
- Section 2: Store Visits Pre-Covid**
  - How frequently do you **visit the store** in pre-covid?
    - Daily
    - Weekly
    - Monthly
    - Other
- Section 3: Store Visits During Covid**
  - How frequently do you visit the store during -covid?
    - Daily
    - Weekly
    - Monthly
    - Other
- Section 4: Wait Time During Covid**
  - How long did you wait for the service during covid?
    - Immediate Service
    - Less than 5 hours
    - 3 to 6 hours
    - More than 1 day
- Section 5: Staff Satisfaction**
  - How would you rate the staff?
    - 1
    - 2
    - 3
    - 4
    - 5
- Section 6: Overall Satisfaction**
  - Overall, How **satisfied** were you with the jumpstart **service**?
    - Very Satisfied
    - Satisfied
    - Neutral
    - Unsatisfied
    - Very Unsatisfied
- Section 7: Website Speed**
  - Please rate the speed of our new service website?
    - 1
    - 2
    - 3
    - 4
    - 5

# 2. Project Deliverables

## Project Deliverables: Post Implementation Survey - Responses

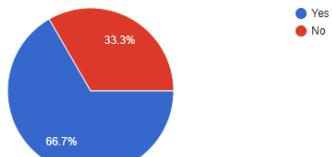
How did you find out about Jumpstart?

5 responses



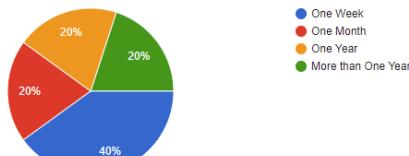
Are you a **current customer or employee** of Jumpstart?

6 responses



For how long have you ever been **purchasing** from Jumpstart?

5 responses



How do you **purchase** from JumpStart **before Covid-19**?

5 responses



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

5 responses



How frequently do you visit the store during -covid?

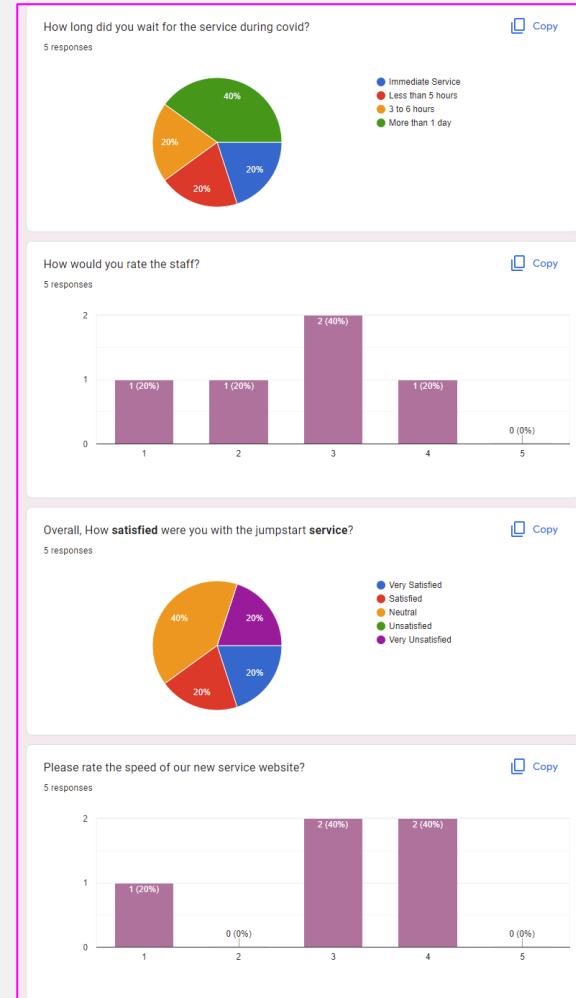
5 responses



# 2. Project Deliverables

## □ Project Deliverables:

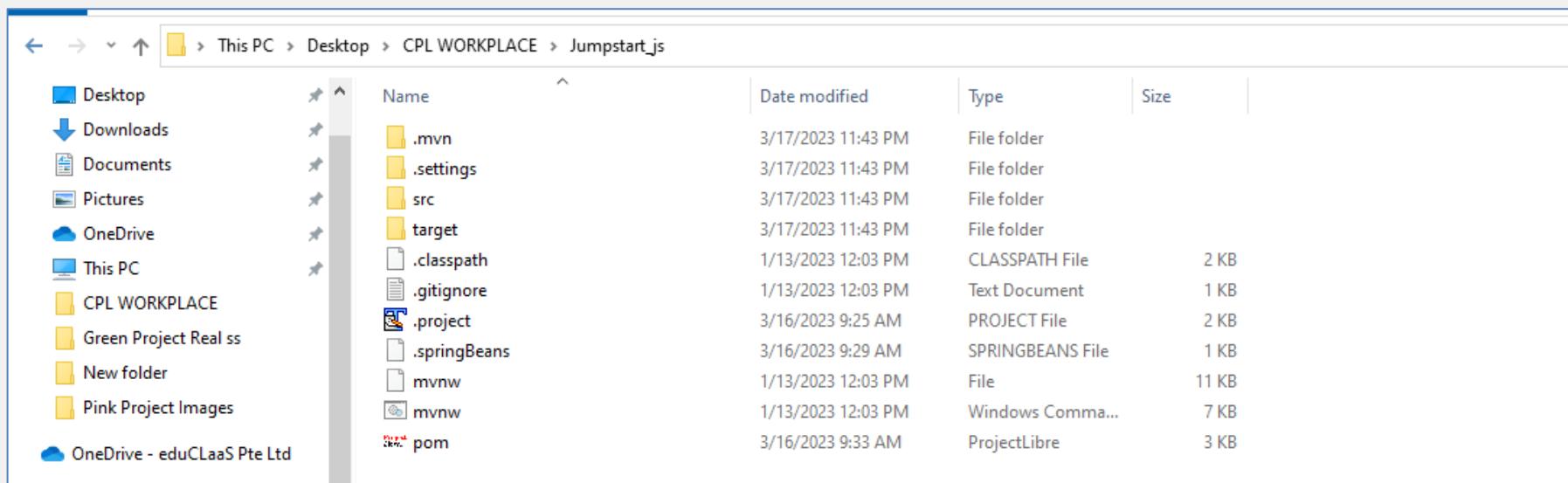
### Post Implementation Survey - Responses



# 2. Project Deliverables

## ☐ List of Evidences

- Screenshots of the project directory



The screenshot shows a Windows File Explorer window with the following details:

Path: This PC > Desktop > CPL WORKPLACE > Jumpstart\_js

Name	Date modified	Type	Size
.mvn	3/17/2023 11:43 PM	File folder	
.settings	3/17/2023 11:43 PM	File folder	
src	3/17/2023 11:43 PM	File folder	
target	3/17/2023 11:43 PM	File folder	
.classpath	1/13/2023 12:03 PM	CLASSPATH File	2 KB
.gitignore	1/13/2023 12:03 PM	Text Document	1 KB
.project	3/16/2023 9:25 AM	PROJECT File	2 KB
.springBeans	3/16/2023 9:29 AM	SPRINGBEANS File	1 KB
mvnw	1/13/2023 12:03 PM	File	11 KB
mvnw	1/13/2023 12:03 PM	Windows Comma...	7 KB
pom	3/16/2023 9:33 AM	ProjectLibre	3 KB

# 3. Project Milestones & Tasks

Project Task ID	Project Task Description	Project Milestone ID
1	Conduct Survey For information Gathering	1
2	Prepare Research Proposal template	1
3	Prepare Work Breakdown Structure	1
4	Create Gantt Chart using Project Libre	2
5	Compare and Evaluate Project Solution by doing Research	2
6	Conduct Survey for Jumpstart Opinion on Recommended Solution	2
7	Setup the Development Environment based on the Technical Development Environment	2
8	Project Report detailing the Technical Design	3
9	Develop the UI standard pages	3
10	Create common Struts Includes, Models, Views & Controllers	3
11	Develop Classes	3
12	Develop Test Cases	3
13	Develop Project Documentation	3
14	Develop User Manual	3

# 4. Project Environment

## □ Technical Environment and Tools Used

- Spring Tool Suite (STS) 3.9.11
- MySQL Workbench 8.0 CE
- Axure RP 10
- Project Libre
- Figma
- Diagram.Net
- Microsoft Word
- Microsoft PowerPoint
- Microsoft Excel
- Google Form

## □ List of references

- <https://dist.springsource.com/release/STS/index.html>
- <https://dev.mysql.com/downloads/workbench/>
- <https://www.axure.com/download>
- <https://sourceforge.net/projects/projectlibre/>
- <https://www.figma.com/downloads/>
- [Login.png - diagrams.net](#)
- [https://docs.google.com/forms/d/1x4p8mLV4o\\_wsv2ljxxJyfpII3I46ZLSm6fTS6321cao/edit?pli=1](https://docs.google.com/forms/d/1x4p8mLV4o_wsv2ljxxJyfpII3I46ZLSm6fTS6321cao/edit?pli=1)

## 5. Tools

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## ☐ Tools & Platforms Used

Axure

The screenshot shows the Acute RP 10 Team Edition software interface, specifically the 'Page Dimensions' view. The main workspace displays a wireframe of a website page with a header containing navigation links (HOME, ABOUT US, CONTACT US, PRODUCTS, CART) and a 'LOG IN' button. Below the header is a large blue triangular graphic element labeled 'ABOUT US'. The left sidebar lists various components and pages, including 'About Us' which is currently selected. The right sidebar contains sections for 'Interactions', 'PAGE DIMENSIONS' (set to 'Auto'), 'PAGE STYLE' (set to 'Default'), and 'PAGE ALIGN' (set to 'FILL'). A preview window on the right shows a dark blue background with white text and icons.



## Project Libre

The screenshot shows a Gantt chart in ProjectLibre with the following tasks and their estimated start and end dates:

- Project Charter**: Starts 1/1/2023, ends 1/10/2023.
- Requirements Gathering**: Starts 1/11/2023, ends 1/20/2023.
- Kickoff Meeting**: Starts 1/21/2023, ends 1/22/2023.
- Identify Stakeholders**: Starts 1/23/2023, ends 1/24/2023.
- Gather and Documentation**: Starts 1/25/2023, ends 1/26/2023.
- Set the Objectives**: Starts 1/27/2023, ends 1/28/2023.
- Prepare SD Document**: Starts 1/29/2023, ends 1/30/2023.
- Design**: Starts 1/31/2023, ends 2/1/2023.
- Document the Scope**: Starts 2/2/2023, ends 2/3/2023.
- Cost Estimation**: Starts 2/4/2023, ends 2/5/2023.
- Allocating Resources**: Starts 2/6/2023, ends 2/7/2023.
- Risk Planning**: Starts 2/8/2023, ends 2/9/2023.
- Test Planning**: Starts 2/10/2023, ends 2/11/2023.
- Implementation**: Starts 2/12/2023, ends 2/13/2023.
- Coding the Source Code**: Starts 2/14/2023, ends 2/15/2023.
- Refine Product Design**: Starts 2/16/2023, ends 2/17/2023.
- Review Product**: Starts 2/18/2023, ends 2/19/2023.
- Create Database**: Starts 2/20/2023, ends 2/21/2023.
- Design Database**: Starts 2/22/2023, ends 2/23/2023.
- Testing**: Starts 2/24/2023, ends 2/25/2023.
- Deployment**: Starts 2/26/2023, ends 2/27/2023.
- UAT Testing**: Starts 2/28/2023, ends 2/29/2023.
- Fix errors**: Starts 2/30/2023, ends 2/31/2023.
- Delivery**: Starts 2/32/2023, ends 2/33/2023.
- Deploy**: Starts 2/34/2023, ends 2/35/2023.
- Training**: Starts 2/36/2023, ends 2/37/2023.
- Conduct Unit Testing**: Starts 2/38/2023, ends 2/39/2023.
- Conduct Integration Test**: Starts 2/40/2023, ends 2/41/2023.
- Conduct System Test**: Starts 2/42/2023, ends 2/43/2023.
- Fix the errors**: Starts 2/44/2023, ends 2/45/2023.
- Deployment**: Starts 2/46/2023, ends 2/47/2023.
- UAT Testing**: Starts 2/48/2023, ends 2/49/2023.
- Fix errors**: Starts 2/50/2023, ends 2/51/2023.
- Delivery the website**: Starts 2/52/2023, ends 2/53/2023.

Resource assignments include Business Analysts, Project Managers, QA Managers, and Developers, with specific tasks like Business Analysis, Project Planning, and QA Testing assigned to these roles.

# Project Libre

# Figma

A screenshot of a web application interface. The left sidebar shows a navigation menu with sections like 'Pages', 'About Us', 'Login', 'Registration', 'Registration Thank You', 'Admin Dashboard', 'Partner Profile', 'Partner Posted Product List', 'Admin Product Management', 'Edit Posted Posted Details', and 'Post Product'. Under 'Post Product', there are links for 'Edit Profile', 'All Product view - Anyone', 'View Product', and 'Cart - Before Add items'. Below the sidebar is a toolbar with icons for file operations. The main content area features a large, colorful illustration of a woman in a pink top and purple pants carrying several shopping bags. Overlaid on this is a white rectangular form titled 'POST PRODUCT'. The form contains fields for 'Product Name' (with a placeholder 'Enter product name...'), 'Brand' (placeholder 'Enter brand...'), 'Serial No.' (placeholder 'Enter serial no...'), 'Price' (placeholder 'Enter price...'), and 'Product Image' (with a 'CHOOSE IMAGE...' button). At the bottom of the form is a blue 'POST PRODUCT' button. At the very bottom of the page is a dark footer bar with the company logo, navigation links for 'HOME', 'About Us', 'Contact Us', 'Term & Condition', 'Our Products', and copyright information: 'Copyright © 2023 All Right Reserved... Rectangular 8'.



[Diagram.net](#)

```

graph TD
    Start([Start]) --> Enter[Enter Credit & Password]
    Enter --> Is{Is valid?}
    Is -- No --> Display[Display Error Message]
    Is -- Yes --> Check[Check role-and relation-to-destination security]
    Display --> Check
    Check --> Logout([Logout])
    Logout --> End([End])
    Logout --> Enter

```



## 5. Tools

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## Tools & Platforms Used

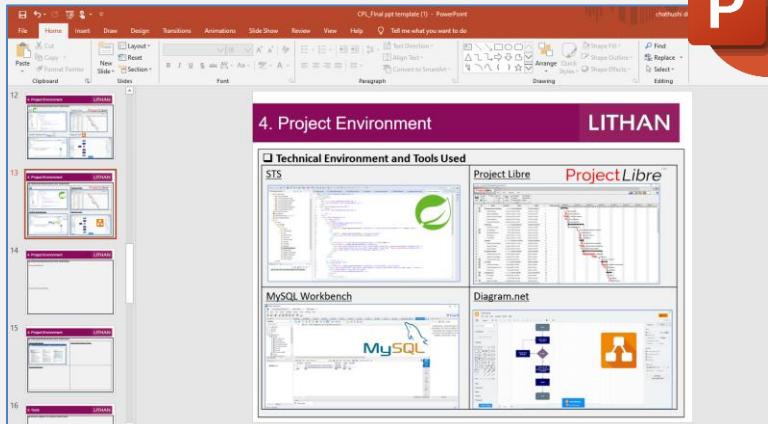
# Microsoft Word



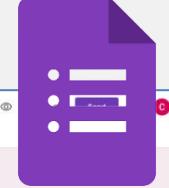
# Microsoft Excel



# Microsoft Power Point



## Google Form



The screenshot shows a Google Form titled "jumpstart". The form has a decorative header featuring a rainbow and various school-related icons like books, globes, and pencils. The main content area has a pink header bar with the title "JUMPSTART" and a "Form description" placeholder. Below this is a question section with the text "How did you find out about Jumpstart?". There are five radio button options: "Search", "Website", "Friend", "Advertisement", and another unlabeled option. On the right side of the form, there is a vertical toolbar with icons for "More", "Responses", "Tr", "File", and "Help".

## 5. Tools

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## Tools & Platforms Used

**STS**



# MySQL Workbench

The screenshot shows the MySQL Workbench interface. The top navigation bar includes 'File', 'Edit', 'View', 'Query', 'Database', 'Server', 'Tools', 'Scripting', and 'Help'. The main window has two panes: the left pane displays the 'Schemas' tree with 'sys' and 'jumpstart' databases selected, and the right pane shows the 'Database Editor' with an open table named 'tb\_user\_profile\_picture'. The table has columns: id\_picture, file\_name, file\_type, and d\_profile. A single row is visible with values: 1, 'cute-young-businesswoman-working-with-laptops...', 'image/jpeg', and 1. Below the editor, the status bar shows 'Query Completed'.

# 6. Research Proposal Template

+

<b>Research Proposal Form</b>	
<b>Student name:</b>	Chathushi Jayarathna
<b>Student ID:</b>	
<b>Centre name:</b>	Lithan (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>	

1

## **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.

2

# 6. Research Proposal Template

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

## Section Three: Literature sources searched

### Journal article:

- 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].
- 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].
- Brush, K. & Scardino, 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].
- 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

3

## 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

4

# 6. Research Proposal Template

- 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

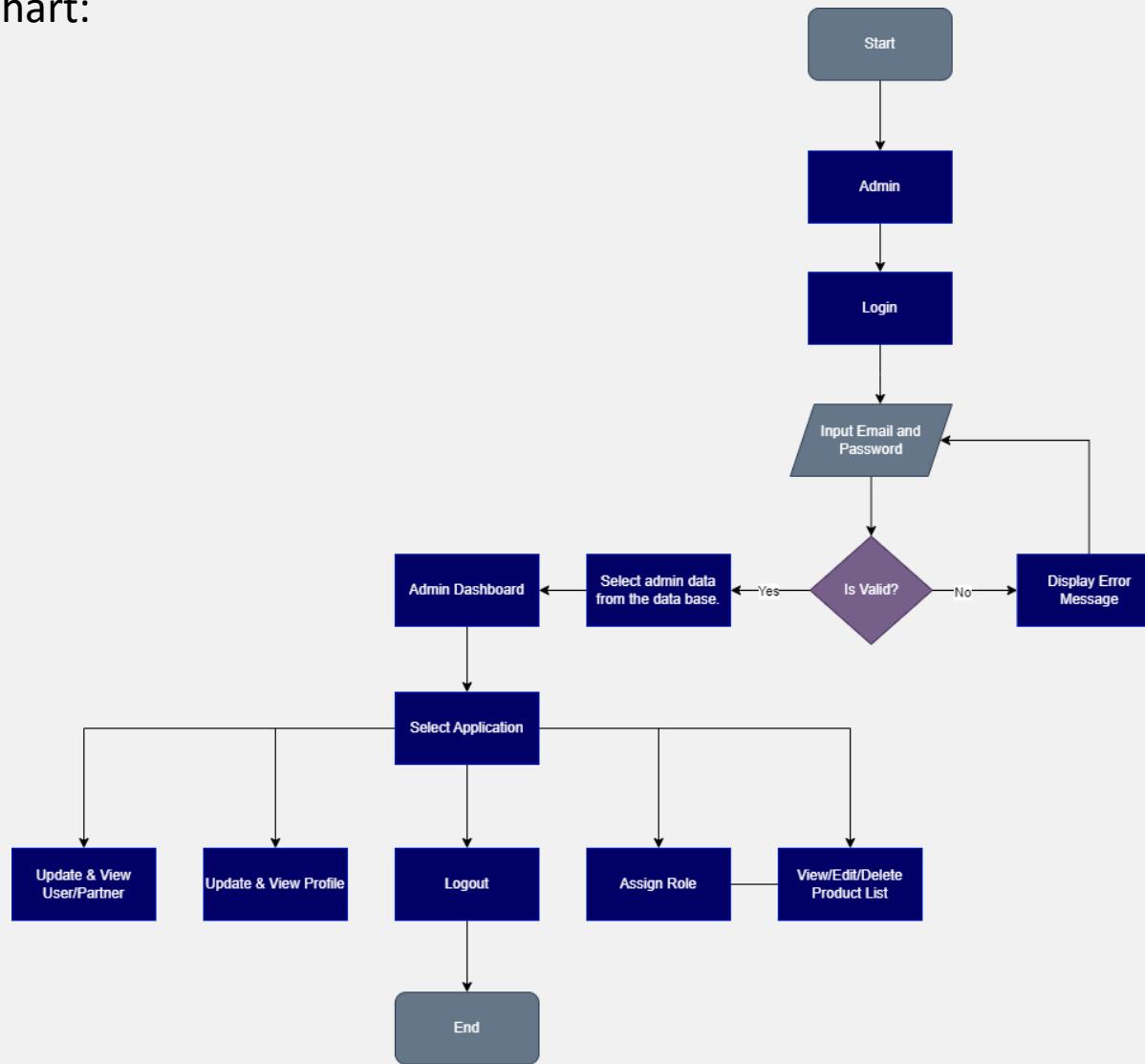
- **Quantitative Research**

- 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

# 7. Project Design

## Project Flowchart:

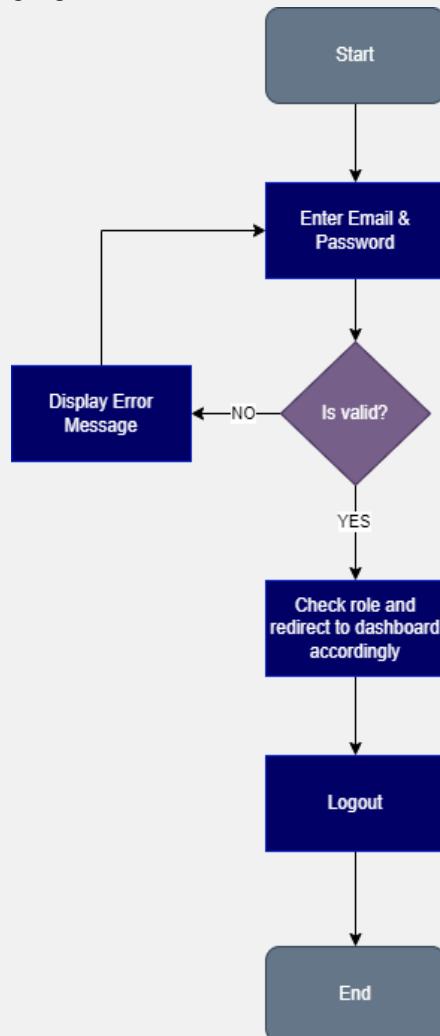
### Admin



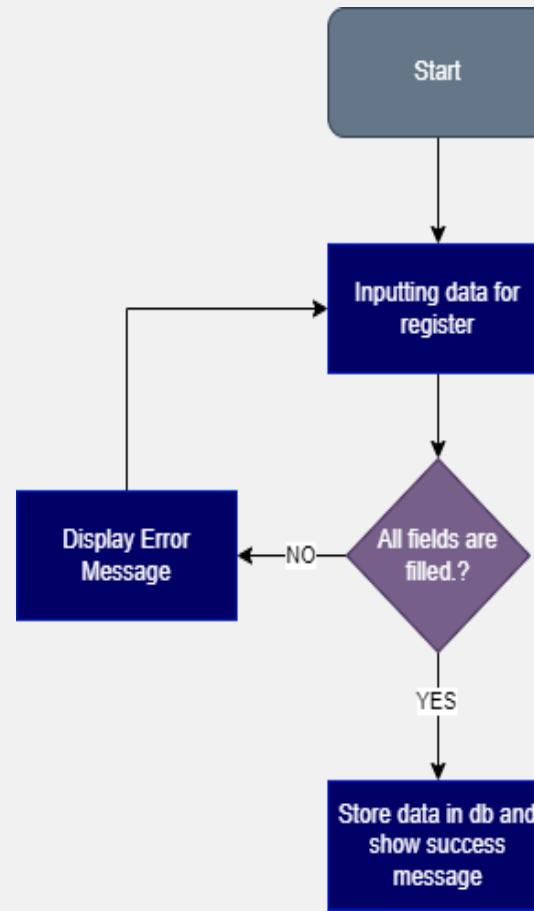
# 7. Project Design

## Project Flowchart:

### Login



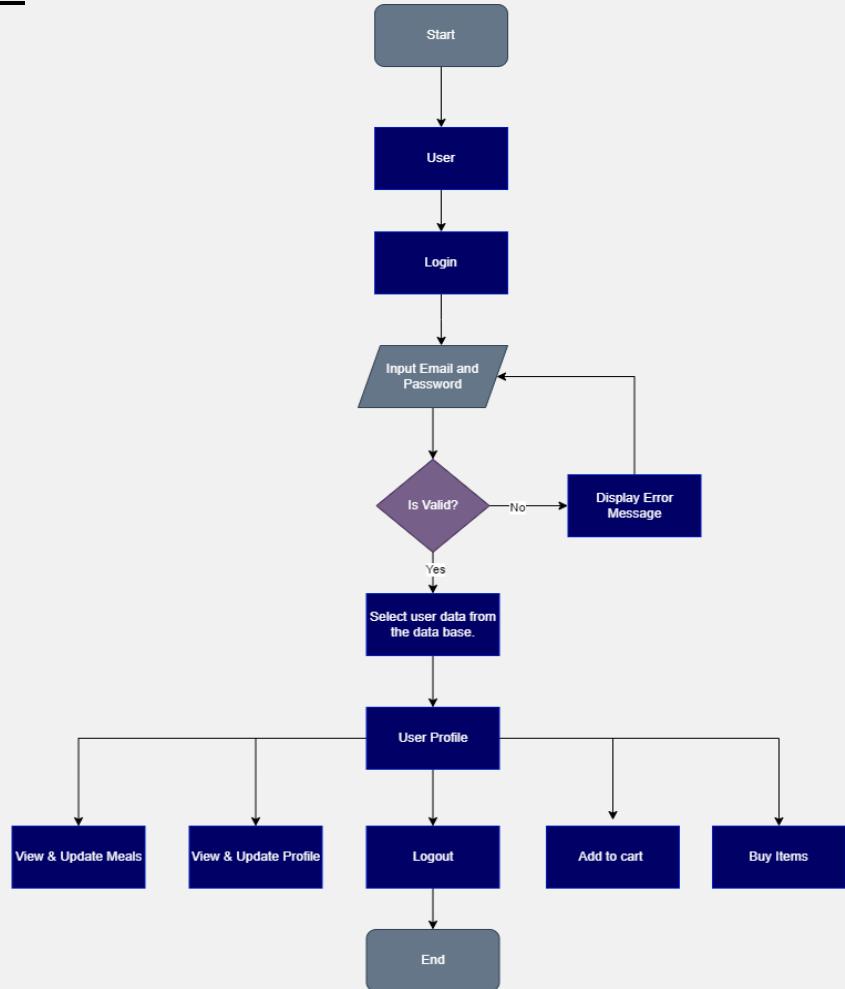
### Registration



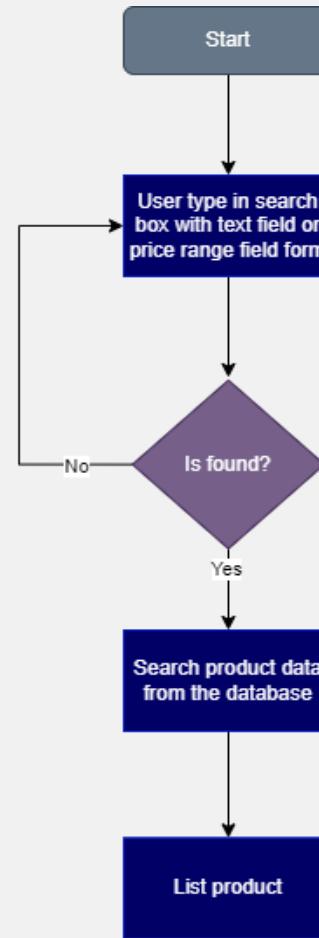
# 7. Project Design

## Project Flowchart:

### User



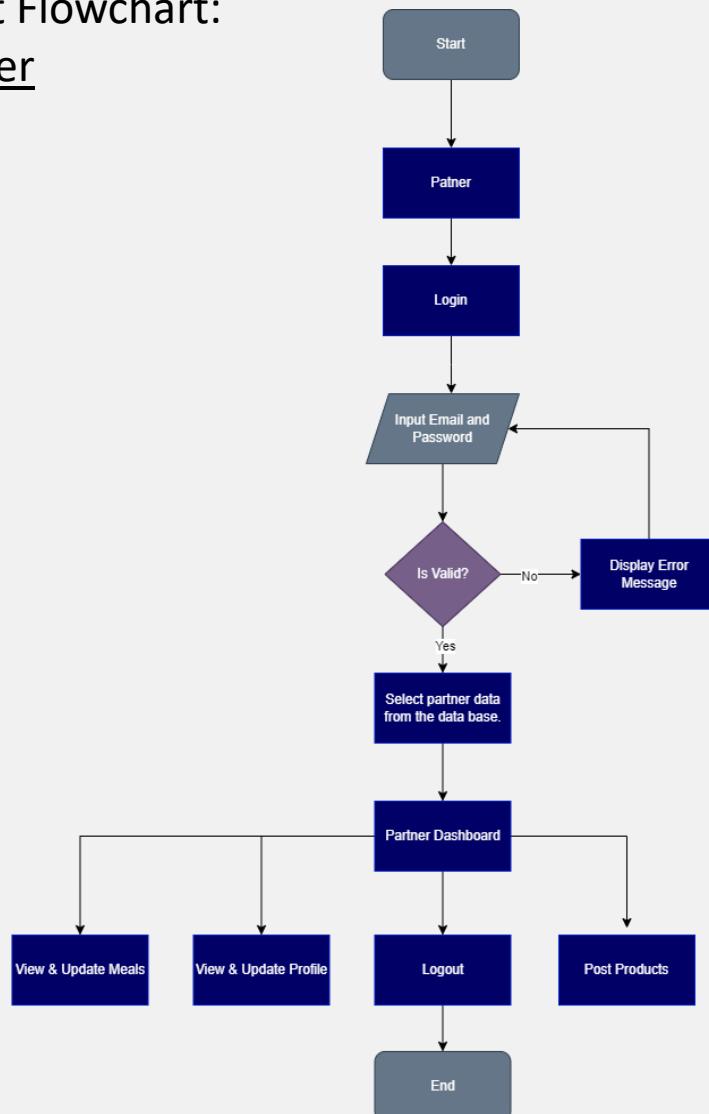
### Search Products



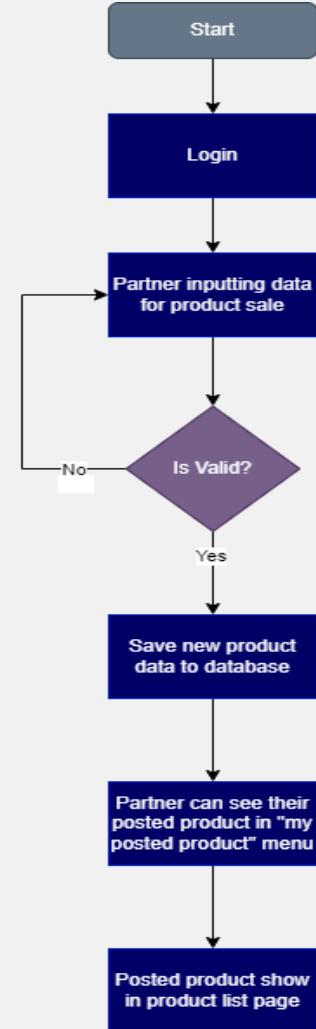
# 7. Project Design

## Project Flowchart:

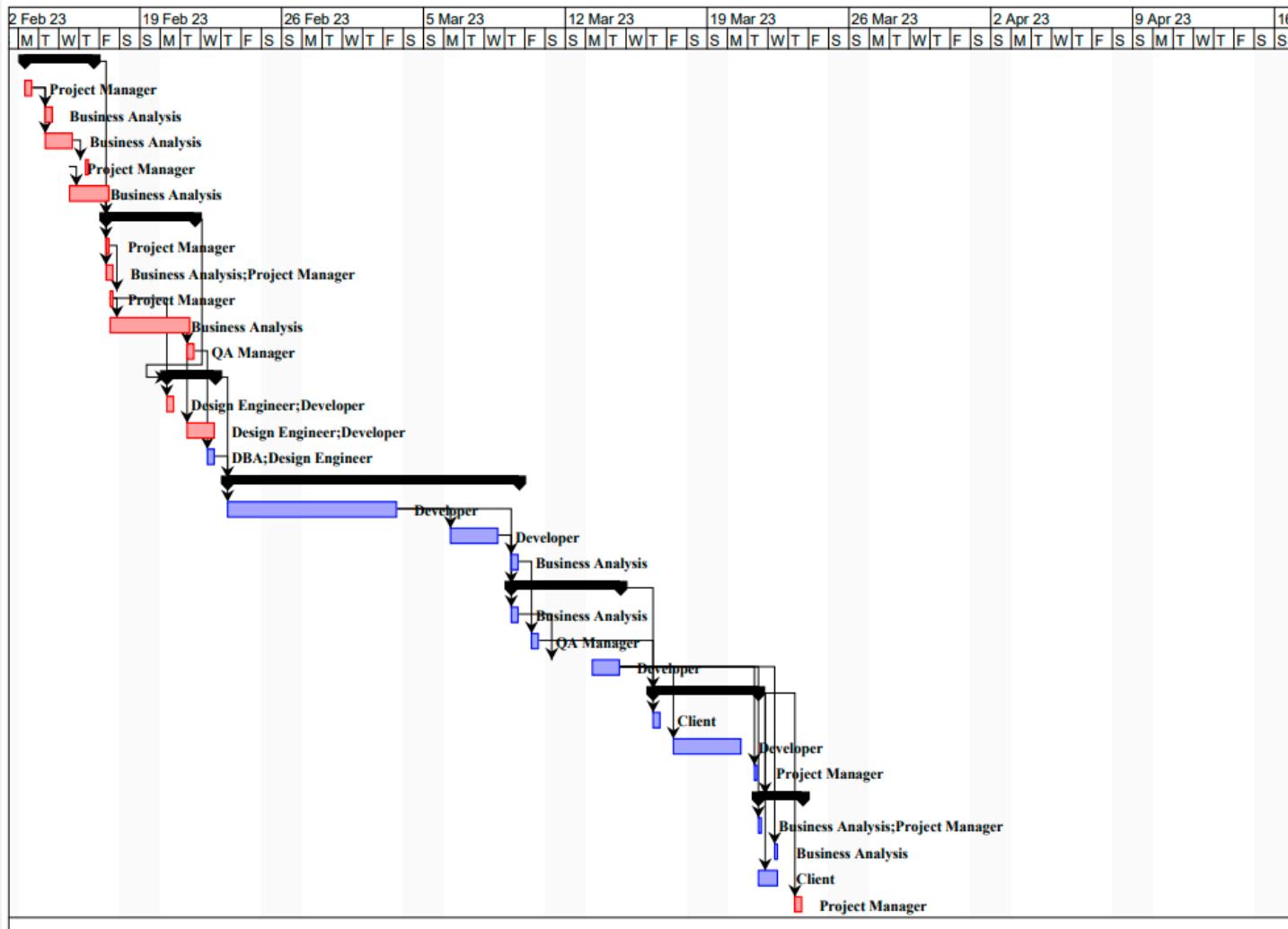
### Partner



### Post Products



# 8. Project Gantt Chart



## 9. Project Execution

### □ Screen Shots of Evidences: website results

#### Landing Page



# 9. Project Execution

## About Us Page

The screenshot shows the 'About Us' section of the Jumpstart.LK website. The page has a dark purple background with white text and illustrations. At the top, there's a navigation bar with links for Home, About Us, Contact Us, Log In, and Sign Up. The main heading 'ABOUT US' is in a large, bold, white font. Below it is a sub-headline: 'Empowering Your Style, Elevating Your Experience – Welcome to JUMPSTART Where Fashion Meets Function, and Every Click Unlocks a World of Possibilities. Discover Trendy Clothing Collections, Seamless Shopping, and Unparalleled Service. Your Journey to Elevated Elegance Starts Here.' To the right of the text is a 3D-style illustration of three people (two adults and one child) interacting with a smartphone that displays the 'JUMPSTART' logo. There are also shopping bags and gift boxes around the phone. Below this section is another illustration of a storefront with a red and white striped awning labeled 'SHOP'. To the right of the storefront is a detailed paragraph about the company's online shopping service, mentioning free home delivery and its status as Sri Lanka's largest online shopping site. Further down the page is a section titled 'WHY USE JUMPSTART TO BUY AND SELL YOUR PRODUCTS?' which includes a paragraph about the company's logistics and delivery services, and an illustration of a shopping cart with a small gift box next to it. At the bottom of the page is a footer with the Jumpstart logo, and links for Home, About, Contact, Privacy Policy, Terms & Conditions, and a copyright notice.

# 9. Project Execution

## Contact Us Page

The screenshot displays the 'Contact 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 header features a large, stylized 'CONTACT US' button with three speech bubbles above it containing the numbers 1, 2, and 3. To the right, there's an illustration of a person sitting cross-legged, working on a laptop. Below this, another illustration shows a person standing next to four colored arrows pointing upwards, labeled 1, 2, 3, and 4. The background is dark purple with white stars. Text on the page includes: 'Get in touch for hassle-free shopping!', '#ContactUs', '#HappyToHelp', '+94 71234567, +88134567897', 'CONTACT@JUMPSTART.COM', 'WWW.JUMPSTART.COM', 'JUMPSTART, COLOMBO, SRI LANKA', and 'Let's connect!'. A map of Colombo is shown at the bottom left, and a footer navigation bar at the bottom right contains links for Home, About, Contact, Privacy Policy, Terms & Conditions, and a copyright notice: 'Copyright © 2022 All Rights Reserved by JUMPSTART'.

# 9. Project Execution

LITHAN

## Registration



- Home
- About Us
- Contact Us
- Log In
- Sign Up

### Sign Up

Full Name  
Eg: Chathu Dil

Username  
Eg: ChathuDil07

Email  
example@email.com

Password  
Eg: ChathuDil07

**SIGN UP**

[Already have an account?](#)



**JS**

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

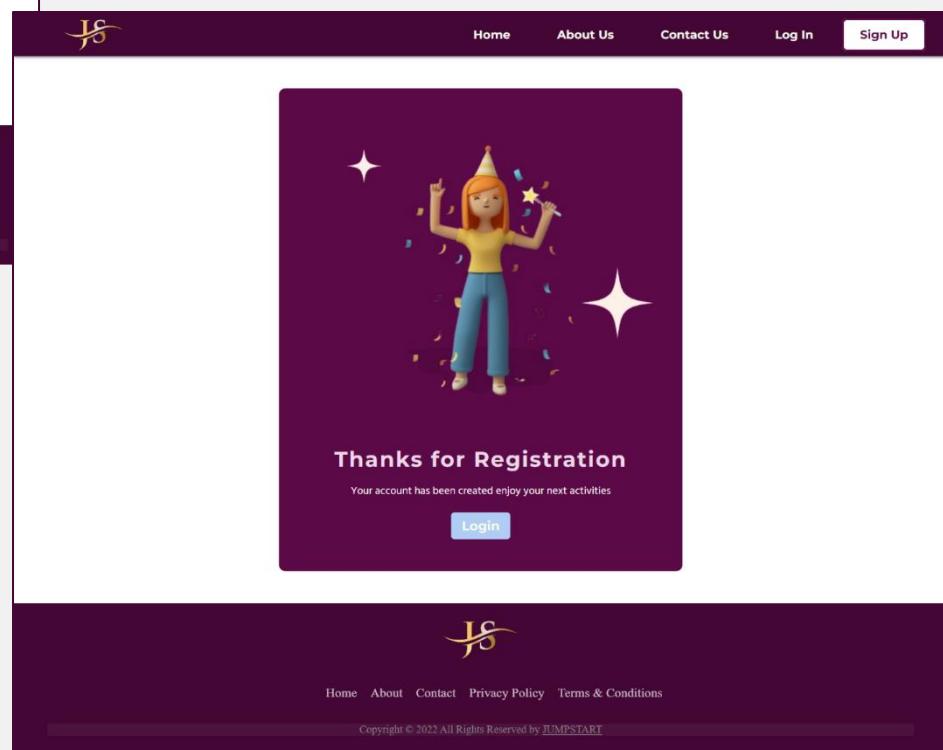
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# 9. Project Execution

## Registration Verification



## Registration Success



# 9. Project Execution

## Login

The login page features a purple header with the company logo and navigation links: Home, About Us, Contact Us, Log In (which is highlighted in white), and Sign Up. The main content area has a purple background with a white login form. The form includes fields for Username (with placeholder "eg. ChatuDi07") and Password (with placeholder "eg. ChatuDi07"). Below the fields are "LOG IN" and "Forgot your password?" buttons, and "Don't have an account?" link. To the right of the form is a cartoon illustration of a person with orange hair sitting in a brown armchair, looking at a laptop. The background also features some white star-like sparkles.



## Forgot Password

The forgot password page features a purple header with the company logo and navigation links: Home, About Us, Contact Us, Log In (which is highlighted in white), and Sign Up. The main content area has a purple background with a white forgot password form. The form includes an "Email" field with placeholder "example@email.com" and a "SUBMIT" button. Below the form is a "Don't have an account?" link. To the left of the form is a cartoon illustration of a person with orange hair, looking confused with three large white question marks floating around their head. The background also features some white star-like sparkles.



# 9. Project Execution

## 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	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	



# 9. Project Execution

## Admin Category Management

The screenshot displays the 'Category Management' section of a web application. At the top, there is a navigation bar with links for 'User-Management', 'Product-Management', 'Categories' (which is highlighted in blue), 'Add a New Product', 'In-store Pickups', and 'Delivery Orders'. Below the navigation bar, the title 'Category Management' is centered, followed by a button labeled 'CREATE NEW CATEGORY'. A table lists five categories with their descriptions and actions (Edit and Delete). The categories are:

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



# 9. Project Execution

## Admin Product Management

The screenshot displays the Admin Product Management section of a web application. 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 (which is currently selected), Categories, Add a New Product, In-store Pickups, and Delivery Orders.

On the left side, a sidebar lists categories: All Categories, Perfume, Electronics, Cosmetics, and Accessories. The main content area shows four product cards, each featuring a 'NEW PRODUCT' badge and a 'Special For You' message with a 'Shop Now' button:

- 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 to Home, About, Contact, Privacy Policy, Terms & Conditions, and a copyright notice: Copyright © 2022 All Rights Reserved by JUMPSTART.

# 9. Project Execution

## Edit Product Information

The screenshot shows a web-based application interface for managing product information. At the top, there is a navigation bar with links for User-Management, Product Management, Categories, Add a New Product, In-store Pickups, and Delivery Orders. The Delivery Orders link is highlighted with a pink box. Below the navigation bar, the main content area has a dark purple header with the title "Edit Product Information". The form fields include:

- Product Name: Perfume
- Product Description: Rose Fragrant Luxury Perfume for ladies
- Category: Perfume (selected from a dropdown menu)
- Amount in stock: 30 (selected from a dropdown menu)
- Price (USD): \$8.80 (selected from a dropdown menu)

At the bottom of the form are two buttons: "SAVE CHANGES" (blue) and "CANCEL" (red).

The footer of the page includes the company logo (JS), and links to Home, About, Contact, Privacy Policy, and Terms & Conditions. It also features a copyright notice: "Copyright © 2022 All Rights Reserved by JUMPSTART".

# 9. Project Execution

## Admin Add Product Form

The screenshot shows a web-based application for managing products. At the top, there is a navigation bar with links for User-Management, Product Management, Categories, Add a New Product (which is highlighted in dark blue), In-store Pickups, and Delivery Orders. A search bar with a magnifying glass icon and a profile link are also present. The main content area has a dark purple background and features a large title "Add a Product". Below the title are several input fields: "Product Name" (placeholder: "Name of the product"), "Product Description" (placeholder: "Describe Product"), "Category" (dropdown menu with "Choose here" option and a "CREATE NEW CATEGORY" button), "Initial Amount" (text input with value "0"), "\$ Price" (text input), and a file upload section for "Upload a Picture (Preferably 1:1)". At the bottom right are two buttons: "SAVE CHANGES" (blue) and "CANCEL" (orange). The footer contains the company logo, links to Home, About, Contact, Privacy Policy, 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

Profile

### Add a Product

Product Name  
Name of the product

Product Description  
Describe Product

Category

Initial Amount  
0

\$ Price

Upload a Picture (Preferably 1:1)  
 No file chosen

Home About Contact Privacy Policy Terms & Conditions

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# 9. Project Execution

## Admin Edit User

The screenshot shows a web-based application interface for managing users. At the top, there is a dark header bar with a logo, a search bar, and a profile button. Below the header, a navigation menu includes 'User-Management' (which is highlighted in a purple box), 'Product-Management', 'Category Management', 'Inventory Management', 'Picksups', and 'Delivery Orders'. The main content area displays a table of user data:

NO.	FULLNAME	USERNAME
1	Mark Rox	MarkRox01
2	Chathu Dil	ChathuDil07
3	Chathu Sha	ChathuSha07
4	Chathu Jay	ChathuJay07
5	Nethu Dil	NethuDil07
6	Nethu Sha	NethuSha07

A modal window titled 'Edit User Information' is open over the table, allowing for the modification of specific user details. The modal fields include:

- Full Name: Chathu Dil
- Email: chathushi0707@gmail.com
- Mobile: (XX)-(your phone number)
- Address: Your physical address

At the bottom of the modal is a blue 'SAVE' button. To the right of the modal, a vertical sidebar lists user roles and their corresponding actions (Edit and 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.

# 9. Project Execution

## Admin Profile View

The screenshot displays the 'Admin Profile View' interface. At the top, there is a navigation bar with a logo (JS), a search bar, and a 'Profile' button. The main content area shows a user profile for 'Chathu Sha'. The profile includes a circular placeholder image for a profile picture, an 'Edit Profile' button, and a 'Logout' button. To the right of the image, the user's name 'Chathu Sha' is displayed, along with several profile details: 'Username' (ChathuSha07), 'Email' (chathushi27@gmail.com), 'Mobile No.' (User hasn't given a mobile number yet), and 'Address' (User provided an address yet). The bottom of the page features a dark footer bar with the JS logo, links to 'Home', 'About', 'Contact', 'Privacy Policy', and 'Terms & Conditions', and a copyright notice: 'Copyright © 2022 All Rights Reserved by JUMPSTART'.

Search

Profile

Chathu Sha

Username  
ChathuSha07

Email  
chathushi27@gmail.com

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

Address  
User provided an address yet.

Edit Profile

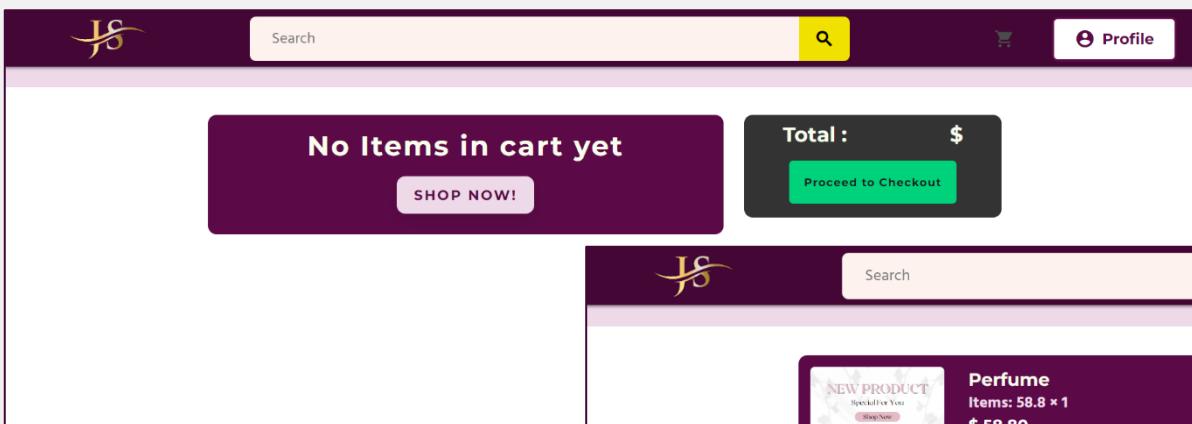
Logout

Home About Contact Privacy Policy Terms & Conditions

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# 9. Project Execution

## Cart before Add Items



## Cart after add Items

The screenshot shows the same shopping cart interface after items have been added. The header remains the same. The main content area now displays two items in the cart:

- Perfume**  
Items: 58.8 × 1  
\$ 58.80
- Red Lipstick**  
Items: 11.11 × 1  
\$ 11.11

Each item has a small image, a delete icon, and an "Edit Amount" button. To the right of the items is a summary box showing "Total : \$ 69.91" and a green "Proceed to Checkout" button. At the bottom of the page is a dark purple footer with the company logo, navigation links (Home, About, Contact, Privacy Policy, Terms & Conditions), and a copyright notice.

# 9. Project Execution

## User Dashboard

The screenshot displays the LITHAN User Dashboard. At the top, there is a navigation bar with a logo, a search bar, a magnifying glass icon, a shopping cart icon, and a 'Profile' button. On the left, a sidebar titled 'All Categories' lists 'Perfume', 'Electronics', 'Cosmetics', and 'Accessories'. The main area features a grid of five product cards:

- Perfume**: \$ 58.80, Items sold: 0. Add to Cart.
- Wireless Head...**: \$ 12.23, Items sold: 0. Add to Cart.
- Red Lipstick**: \$ 11.11, Items sold: 0. Add to Cart.
- Woman Hand ...**: \$ 45.67, Items sold: 0. Add to Cart.

Each card includes a 'NEW PRODUCT' badge, a 'Special For You' badge, and a 'Shop Now' button. The products shown are a perfume bottle, a pair of headphones, three lipsticks, and a woman's handbag. At the bottom, there is a footer with the LITHAN logo, links to Home, About, Contact, Privacy Policy, Terms & Conditions, and a copyright notice: Copyright © 2022 All Rights Reserved by JUMPSTART.

# 9. Project Execution

## User Profile and Order History

The screenshot shows a user profile page for "Chathu Dil". The profile card displays a placeholder user icon, the name "Chathu Dil", and the following details:

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

Below the profile card is a section titled "Order History" which lists three recent orders:

- Order - 1**: Date of purchase: Sept 07, 2023, \$ 100. Includes a "View Order" button.
- Order - 2**: Date of purchase: Sept 07, 2023, \$ 200. Includes a "View Order" button.
- Order - 3**: Date of purchase: Sept 07, 2023, \$ 300. Includes a "View Order" button.

The footer of the page includes the JS logo, navigation links for Home, About, Contact, Privacy Policy, Terms & Conditions, and a copyright notice: Copyright © 2022 All Rights Reserved by JUMPSTART.

# 9. Project Execution

## Staff Dashboard

The screenshot displays a web-based staff dashboard for managing products. The interface includes a header with a logo, search bar, profile icon, and navigation links for 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 area shows four product cards: Perfume (\$58.80), Wireless Head... (\$12.23), Red Lipstick (\$11.11), and Woman Hand ... (\$45.67). Each card includes a 'Shop Now' button, a summary of sold and in-stock items, and edit/delete buttons.

**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

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# 9. Project Execution

## Staff Create Category

The screenshot shows a web-based application interface for managing product categories. At the top, there is a navigation bar with a logo, a search bar, and a profile icon. Below the navigation bar, a header menu includes 'Product-Management', 'Categories', and 'Add a New Product'. The main content area features a table titled 'Category' with four rows of data:

NO.	CATEGORY
1	Perfume
2	Electronics
3	Cosmetics
4	Accessories

A modal dialog box 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 dialog is a blue 'CREATE' button. To the right of the modal, there is a vertical column labeled 'ACTIONS' with 'Edit' and 'Delete' buttons for each row in the table.

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.

# 9. Project Execution

## Staff Category Management

The screenshot displays a web-based application for managing product categories. At the top, there is a navigation bar with a logo, a search bar, and user profile options. Below the navigation, a secondary menu 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 features a "CREATE NEW CATEGORY" button. A table lists four categories: Perfume, Electronics, Cosmetics, and Accessories, each with a brief description and edit/delete buttons.

NO.	CATEGORY	DESCRIPTION	ACTIONS
1	Perfume	All kinds of perfumes	Edit Delete
2	Electronics	All kinds of Electronics	Edit Delete
3	Cosmetics	All kinds of luxury Cosmetics	Edit Delete
4	Accessories	All kinds of woman accessories	Edit Delete

At the bottom of the page, there is a footer section containing the company logo, links to Home, About, Contact, Privacy Policy, and Terms & Conditions, and a copyright notice for JUMPSTART.

# 10. Milestone Feedback & Action taken

LITHAN

Project Milestone ID	Milestone Feedback received from Tutor / Learning Facilitator	Action Taken (Yes / No)
1	Create survey	Yes
	Change time periods of Gantt chart	Yes
	Create product management list	Yes
2	Add location to contact us page	Yes
	Add more details to home page	Yes
	Connect Database	Yes
3		Yes
		Yes
		Yes

# 11. Proposed Improvements

## Future Recommendation:

- Creating more better code and not repeating that can be reused
- Consistent with the naming convention
- Implement other functionalities