

e-Commerce Business Requirement Document V 1.0

PREPARED BY
DATE

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1.Introduction

This document is prepared for the requirements to Build world-class ecommerce retail application

1.1. Purpose

The purpose of the functional requirement (or business requirement) document is to define and document a complete and accurate description of the requirements/specifications of the product to be developed for e-Commerce website.

1.2. Scope

1.2.1. In-Scope

All requirements specified as “Mandatory” or “Must to have” are in the scope of this project. All such requirements are required in order for the product to be considered complete for this project.

1.2.2. Out of Scope

All requirements specified as “Optional” or “Nice to have” may be considered as out of scope of this project. All such requirements are not required for the product to be considered complete however if feasible, the product shall include these requirements. Future projects may be initiated to deliver optional requirements not included in the scope of this project.

Note: All requirements shall be considered mandatory unless specified otherwise.

2.Summary of Requirements

Following requirements and functionalities to be considered for development of project.

	Development requirement	Priority
01	Site should Use layered architecture - Database layer, Business Logic Layer, RESTAPI/Web Services Layer, UI Layer.	Mandatory
02	Break down requirement into components and Design Architecture diagram	Mandatory
03	Document the REST API for each of the component	Mandatory
04	Design mockup diagram using Figma for UI	Mandatory
05	Database design ER-diagram	Mandatory
06	Implement singleton design pattern for database connection management	Mandatory
07	Code should be written handling all scenarios with proper exception handling	Mandatory
08	Dockerize the application & deploy in OpenShift	Mandatory

	Development requirement	Priority
09	Develop the code as per coding guidelines	Mandatory
10	Write automated unit testing code for the REST APIs and do the manual testing for UI	Mandatory
11	Create 2 git repos for the project, with all other members access.(Backend and UI) Create private branches and work on it and merge to master every 2 days after code review by peer members.	Mandatory

	Functionality	Priority
01	Entire site should be database driven	Mandatory
02	Multilingual Site	Nice to have
03	About page	Low
04	Contact Us	Low
05	Navigation to "Item list" page from "Category" page by on-click of image instead of link "More..."	Nice to have
06	Link & functionality to apply for cart	Mandatory
07	Mouse-over menu for Top-menu bar (and wherever applicable)	Nice to have
08	"Back" option of browser to be blocked (provide back button on each page)	Optional
09	Print Invoice	Mandatory
10	Invoice generation in .PDF format	Low
11	Integrate with gmail for login	Optional

Most of the pages will look like as Fig. –1 and Fig. –2. This can be treated as a template. User should be able to navigate thru top menu bar and / or left link panel.

From categories container user can browse thru various categories like Home Appliances, Electronics, Fashion, Beauty, etc.

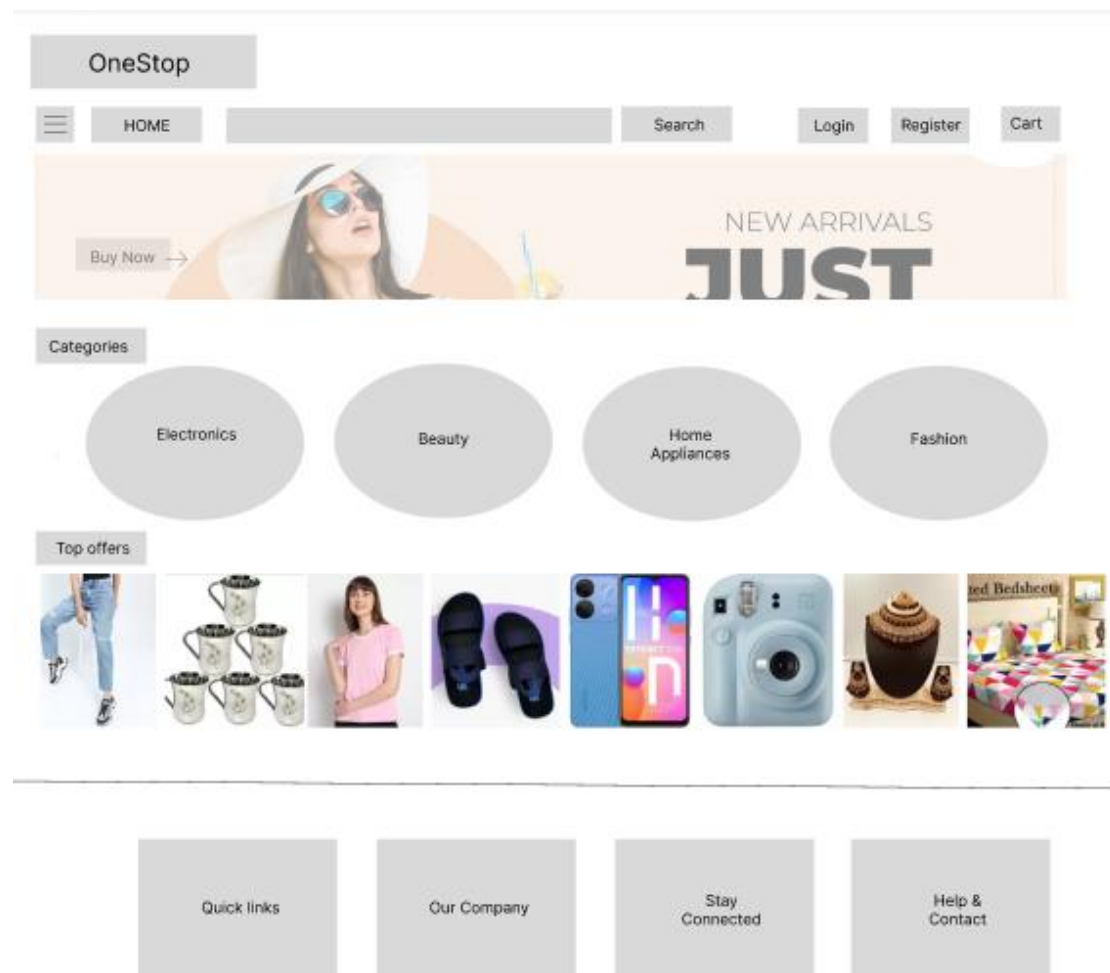
Left link panel is optional. However, if done, the links on left link panel should be collapsible links (wherever applicable) to show the sub categories. (For ex. Electronics may have sub categories as TVs, Home Theatre, Music systems, etc.).

Each category page should have a multiple selection choices. Using this user should be able to filter the products based on brand and/or price. User should be able to add any product in cart from Item List page.

Any person shall be able to view (& navigate) the entire pages however; one has to be a registered member of site to purchase.

3.Home Page

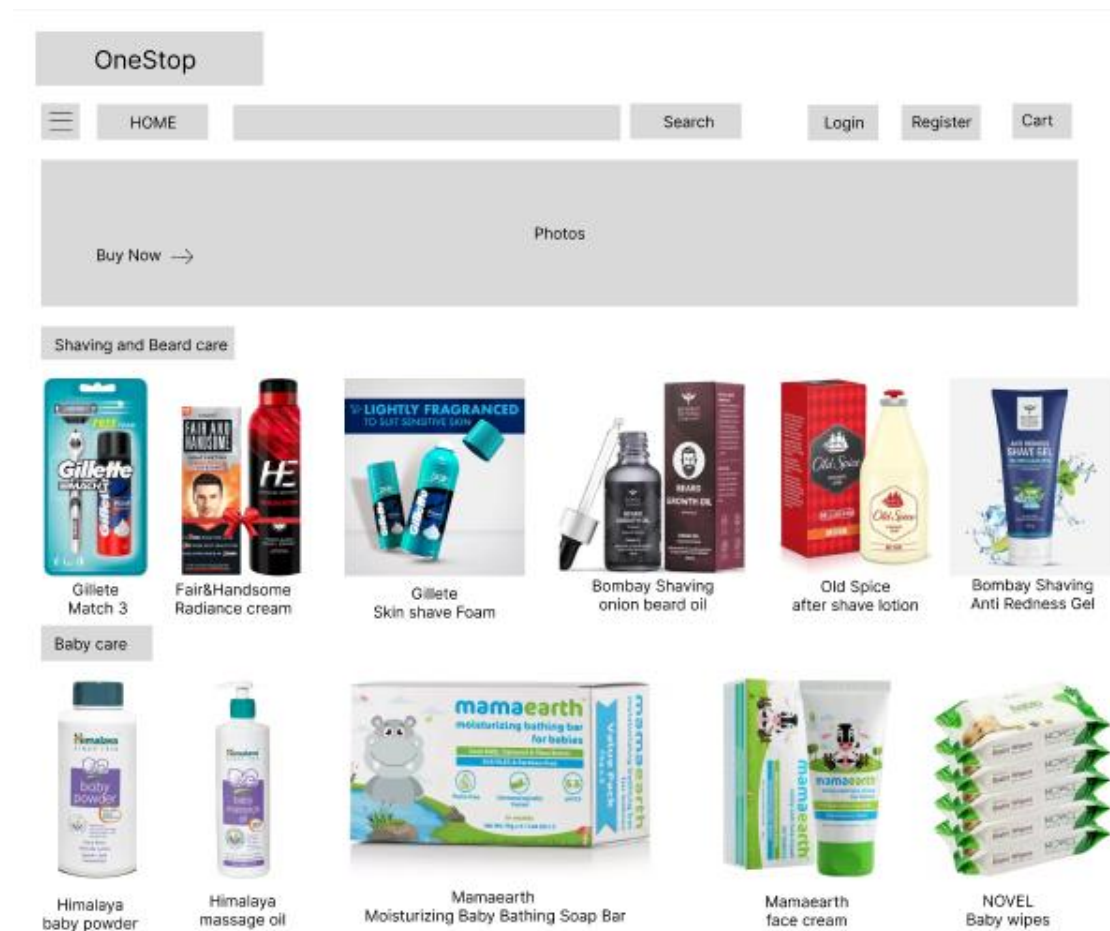
The homepage will feature a range of promotional schemes and discount offers prominently displayed. It will also showcase a diverse selection of categories and highlight top offers. Additionally, the inclusion of advertisements from our esteemed partners and sponsors will enhance the overall user experience. The navigation bar will provide convenient access to specific category searches, the shopping cart, and the login/register pages.



Users have the ability to refine their product search based on brand and/or price range. This can be achieved by selecting a brand from the dropdown list and/or specifying a price range from the available options. Upon clicking the "Go" button, the system will navigate to the Item List page, where all products within the chosen category that meet the specified selection criteria will be displayed. In the event that no products match the selection criteria, a relevant message will be presented to the user.

4. Category Page

The Item List page will present an organized display of all subcategories or products within the selected category. Additionally, the page may feature advertisements from our esteemed partners and sponsors. By clicking on a specific product, users will be seamlessly redirected to the respective product page for more detailed information and purchasing options.



5. Product detail page

Within this page, users will find a comprehensive description and pricing information for the selected product. They will be presented with the option to either add the item to their cart or proceed with an immediate purchase. Upon clicking the "Add to Cart" link, the item will be successfully added to the user's cart. To review and finalize the cart items, users can navigate to the dedicated cart page. Alternatively, selecting the "Buy Now" option will directly redirect users to the checkout page for a streamlined purchasing process.

OneStop

☰


HOME

Search

Login

Register

Cart



Fair And Handsome Long Lasting Radiance Cream 60g + HE Deo Innovator 150ml (2 Items in the set)

Price : 354 Rs

Discount: 46%

Discounted price: 191 Rs

Description:
Pack of 2.
Contains Long Lasting Radiance Cream 60g + HE Deo Innovator 150ml.
Ideal for Men

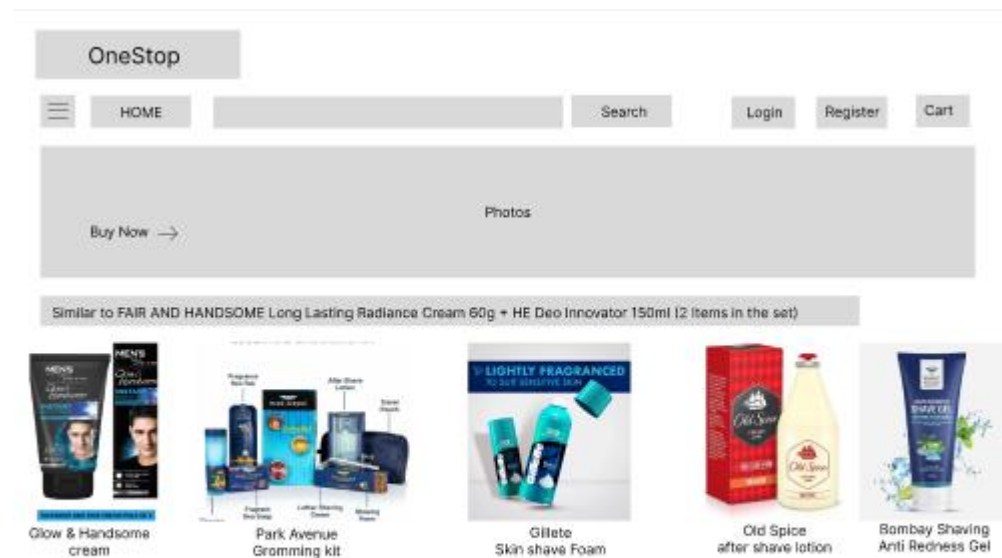
Add to cart

Buy now

[Show similar](#)

6. Similar item page

If a user wishes to explore similar items like a particular item, they can click on the "Show similar..." link on the product page. This action will present a dedicated page showcasing multiple choices that are similar to the desired item.

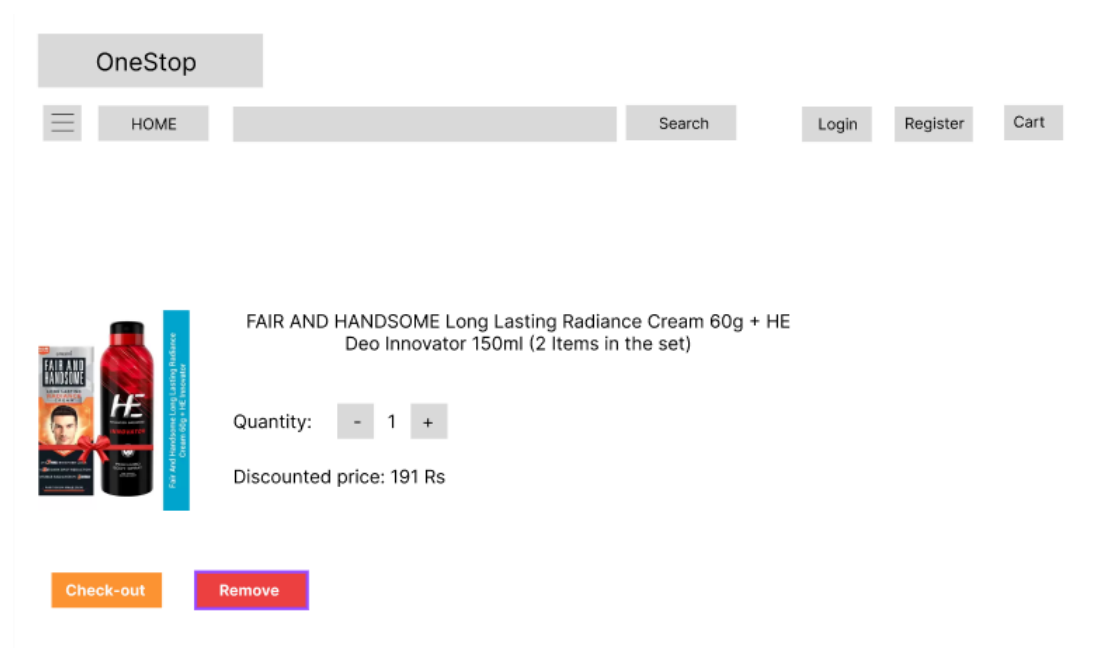


7. Cart page

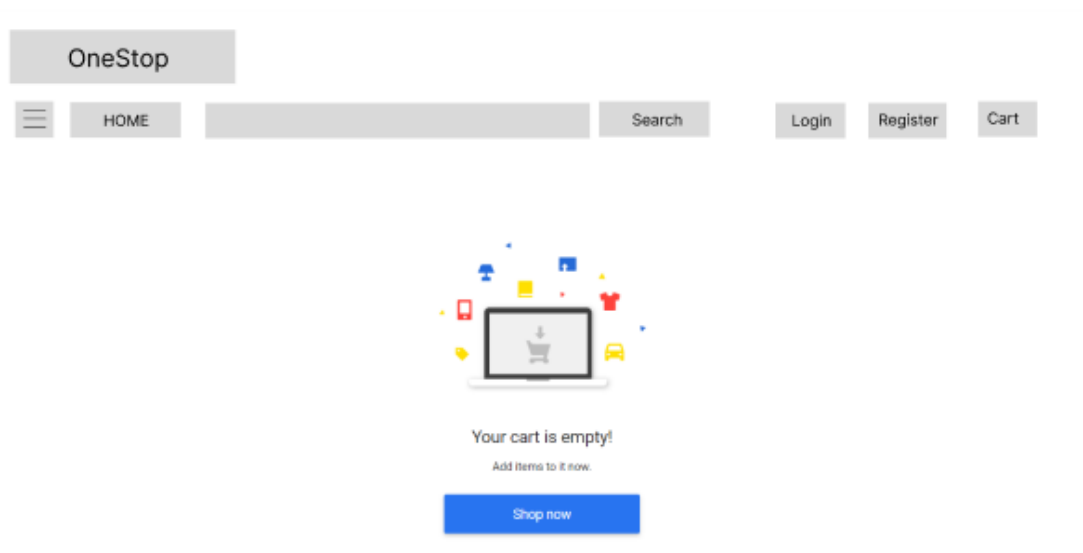
On the "Cart page," customers will be provided with a comprehensive overview of the items they have added to their cart. This page offers convenient features such as the ability to remove items from the cart and adjust quantities as needed. By default, the quantity is assumed to be 1 when an item is added to the cart. Additionally, customers will have the option to update their ship-to address, while the customer name and bill-to address fields will be pre-filled for ease of use.

To proceed with the purchase, customers can simply click the checkout button, which will direct them to the invoice page for finalization. In the event that the customer has not added any items to the cart, a relevant message will be displayed to guide them accordingly.

- Cart page (With items)

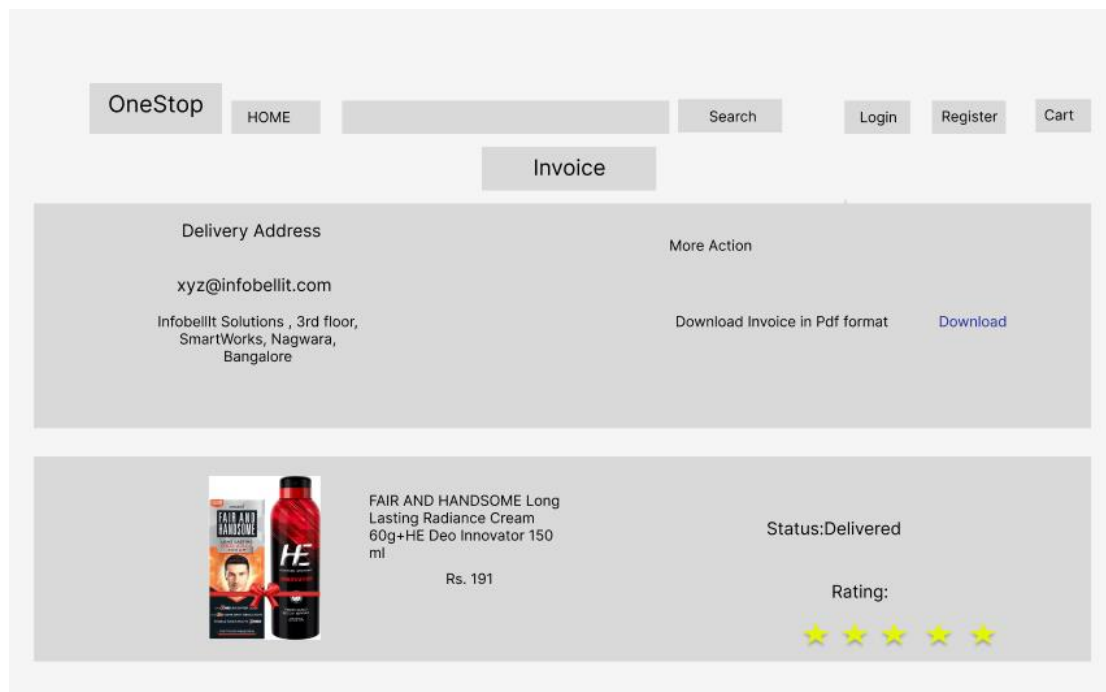


Cart page (Empty)



8.Invoice Page

This page will be displayed once customer checks-out. The complete invoice will be displayed on this page. The page will have “Modify” “Cancel”, “Pay” buttons. The cancel button will empty the cart and will take user to home page. “pay” will take to the credit card verification page. On successful payment, relevant message should be displayed and invoice should be sent to customer preferably in .PDF format.



9.Registration

This page will be used as a application form for member registration for web site. This form will typically collect the customer information such as Name, address, contact details, e-mail id, etc. The page will have “Register” and “Clear” button. The “clear” button will clear the form and “Register” will save the data. On “Register” the Customer number will be generated and the same will be used to store user data in database.

The screenshot displays the 'Create Account' registration form on the 'OneStop' website. The header includes the 'OneStop' logo, a navigation menu with 'HOME', 'Search', 'Login', 'Register', and 'Cart', and a hamburger menu icon. The form itself is titled 'Create Account' and contains several input fields: 'First Name' (placeholder: 'Enter your first name'), 'Last Name' (placeholder: 'Enter your last name'), 'Email' (placeholder: 'Enter your Email id'), 'Password' (placeholder: 'Enter your Password'), 'Mobile Number' (placeholder: 'Enter your Mobile Number'), and 'Address' (placeholder: 'Enter your Address'). A blue button at the bottom of the form is labeled 'Create your OneStop account'.

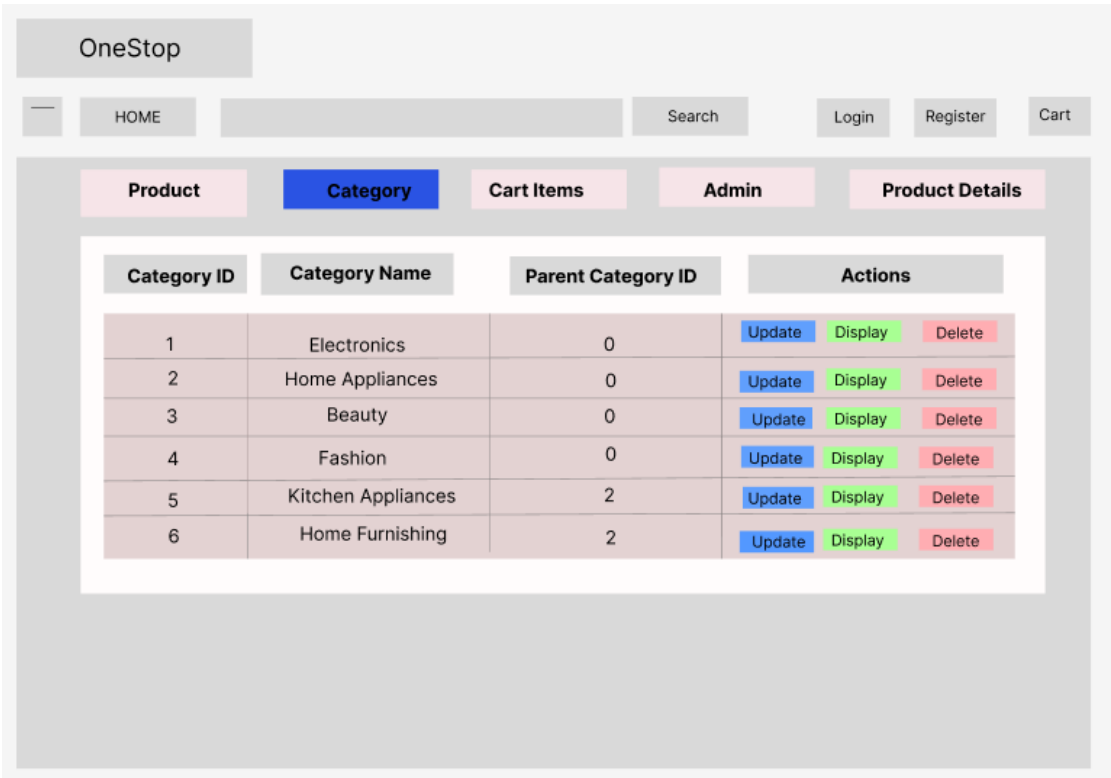
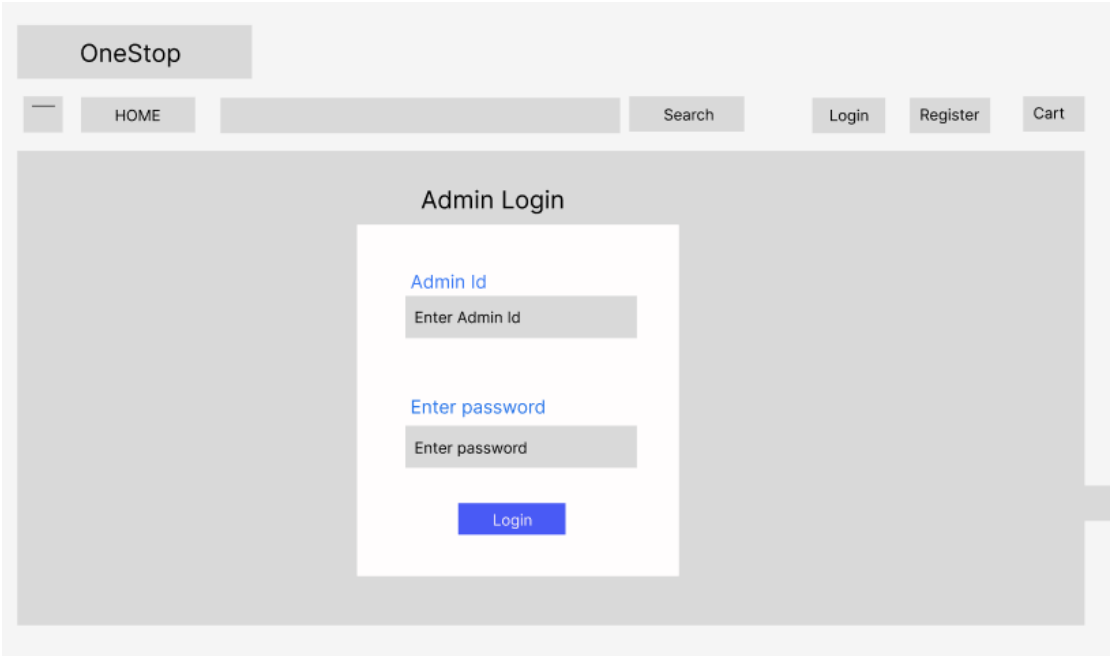
10.Login page

This page is designed for registered members to securely log in to our website. The entered email and password will be carefully verified against the information stored in our customer database. Once authenticated, users will gain access to add items to their shopping cart and make purchases.

The mockup shows a web page for 'OneStop'. At the top left is the 'OneStop' logo. Below it is a navigation bar with a hamburger menu icon, a 'HOME' button, a search bar, and buttons for 'Login', 'Register', and 'Cart'. The main content area features a 'Login' form. The form has a title 'Login' in a grey box. It contains two input fields: 'Email Id :' and 'Password :'. Below these fields is a blue 'Login' button. At the bottom of the form, there is a link that says 'new to Oneshop? Create your account.'

11.Admin page

This secure login portal is exclusively designed for authorized administrators. Once authenticated, you will gain access to a comprehensive user interface that allows you to modify, delete, and display various tables directly from our database.





12.Payment page

The screenshot displays a 'Settings' page with a 'Payment' sub-section. It features a 'Saved cards' list with two entries: a Mastercard and a Visa card. Each entry shows the card number (partially masked), the card type logo, and a 'Remove card' link. Below this is an 'Add new card' section with input fields for the cardholder's name, card number, expiration date, and CVV, followed by an 'Add card' button.

Settings
Payment

Saved cards:

 **** * 3193 [Remove card](#)
Card Number

 **** * 4296 [Remove card](#)
Card Number

Add new card:

Cardholder's Name

Card Number Expire CVV

13. General Information

- Team leader need to submit report every week.
- All milestone should to be submitted as per schedule
- Documents need to be approved by seniors before submitting.

Project Milestones					
Milestone#1	Milestone#2	Milestone#3	Milestone#4	Milestone#5	Milestone#5
Start Date	Design Complete	Code Complete	Final Integration and Bug	Test Complete	Final Demo
18th May	23rd May	30th May	1st June	2nd June	5th June

14. Point Of Contact

All queries may be sent to respective Team lead or may be discuss in person.
The detail of team and POC is as below.

Sl No	Resource Name	Skill Names	Project	Area	Point of Cont.
5	Shubham Bal	Java	e-Commerce Site	Backend	POC-BE
6	Omkar Balaso Patil	Java	e-Commerce Site	Frontend	
7	Hitendra Mhatre	Java / MySQL	e-Commerce Site	Frontend	POC-FE
8	Nikhil Zambare	Java / MySQL	e-Commerce Site	Frontend	
9	Shrutika Dhore	Java / MySQL	e-Commerce Site	Frontend	
10	Sumukh Nayaka	Java / MySQL	e-Commerce Site	Backend	
11	Devesh Sharma	Java	e-Commerce Site	Backend	POC-DB
12	Saurabh Narendra Tajane	Java	e-Commerce Site	Backend	
13	Suratkar Madhavi Narayan	Java	e-Commerce Site	Backend	