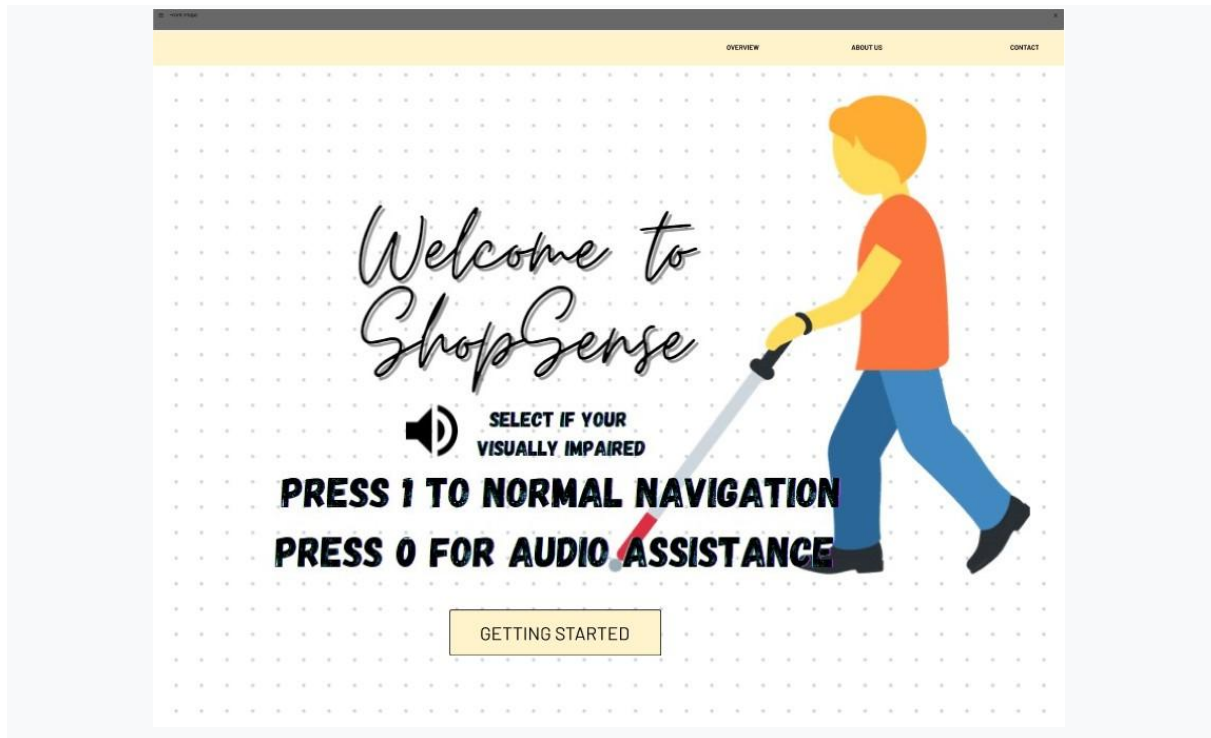


# DESIGN DOCUMENT

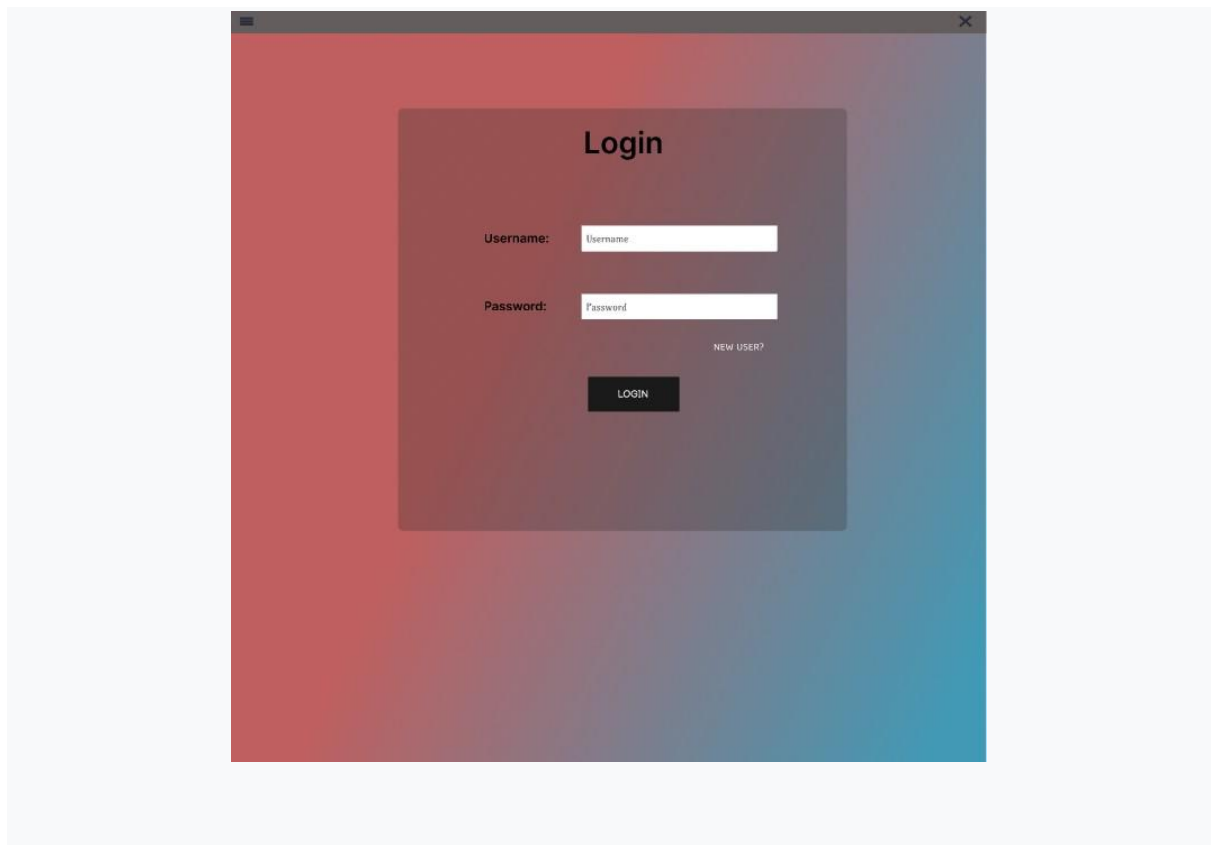
By Abhin and Sona

**-E-commerce website  
For visually impaired  
People**

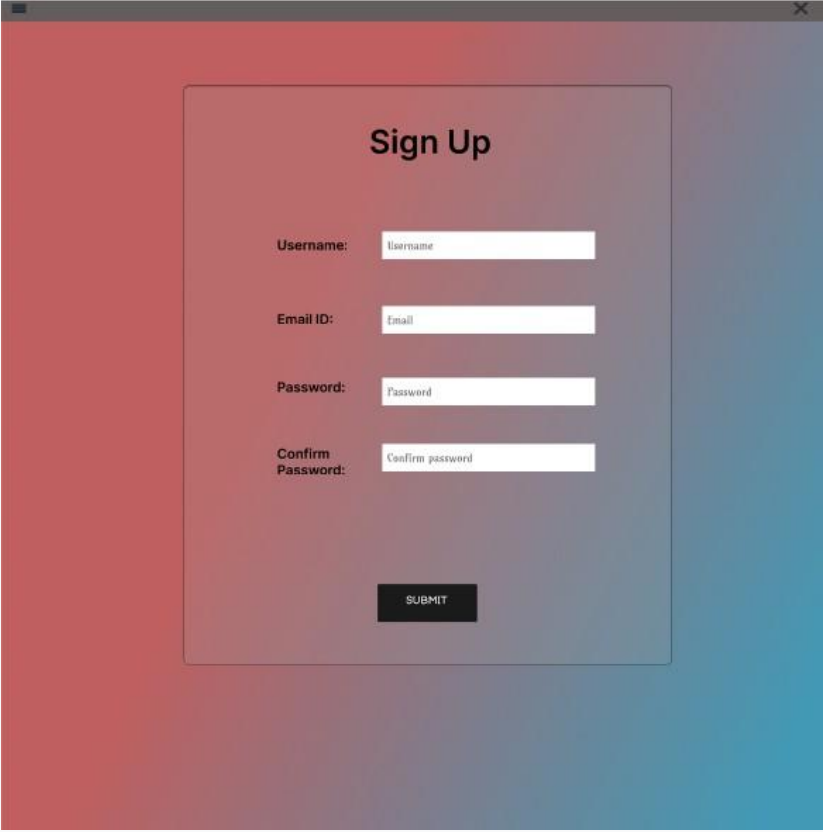
1. UI UX screens design
  - 1.1. Welcome page



- 1.2. Login page



### 1.3. Sign in page



**Sign Up**

Username:

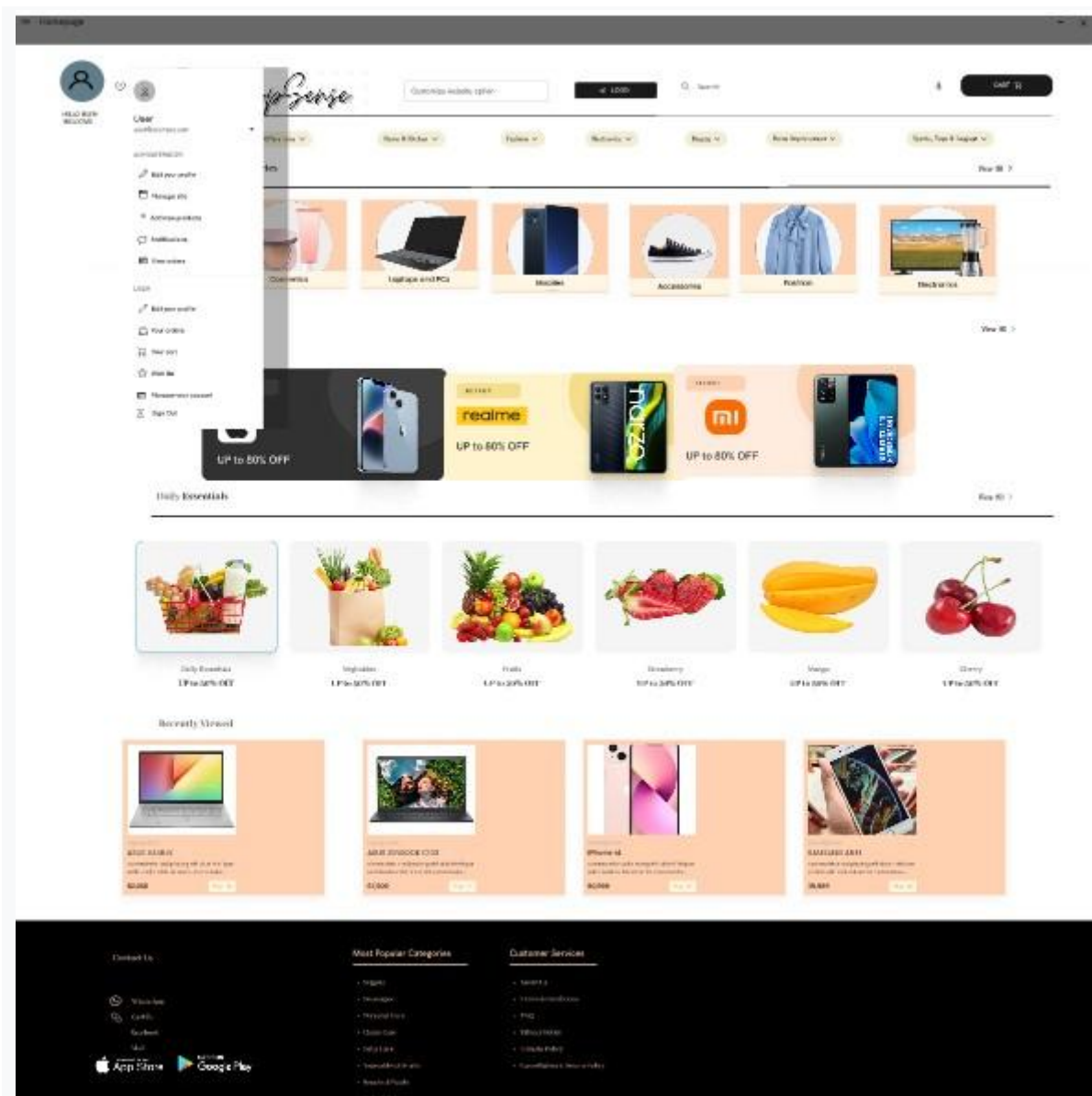
Email ID:

Password:

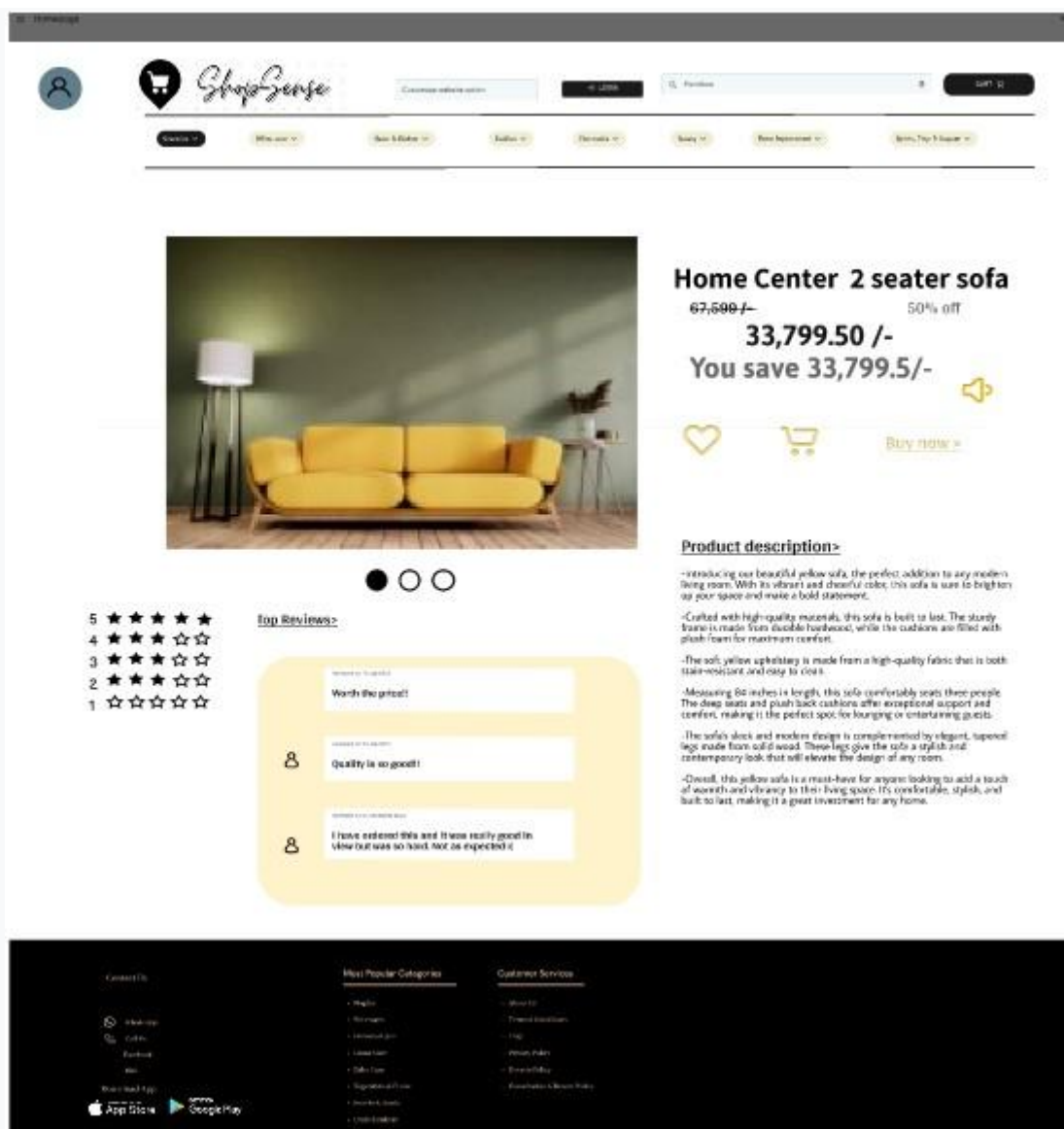
Confirm Password:

**SUBMIT**

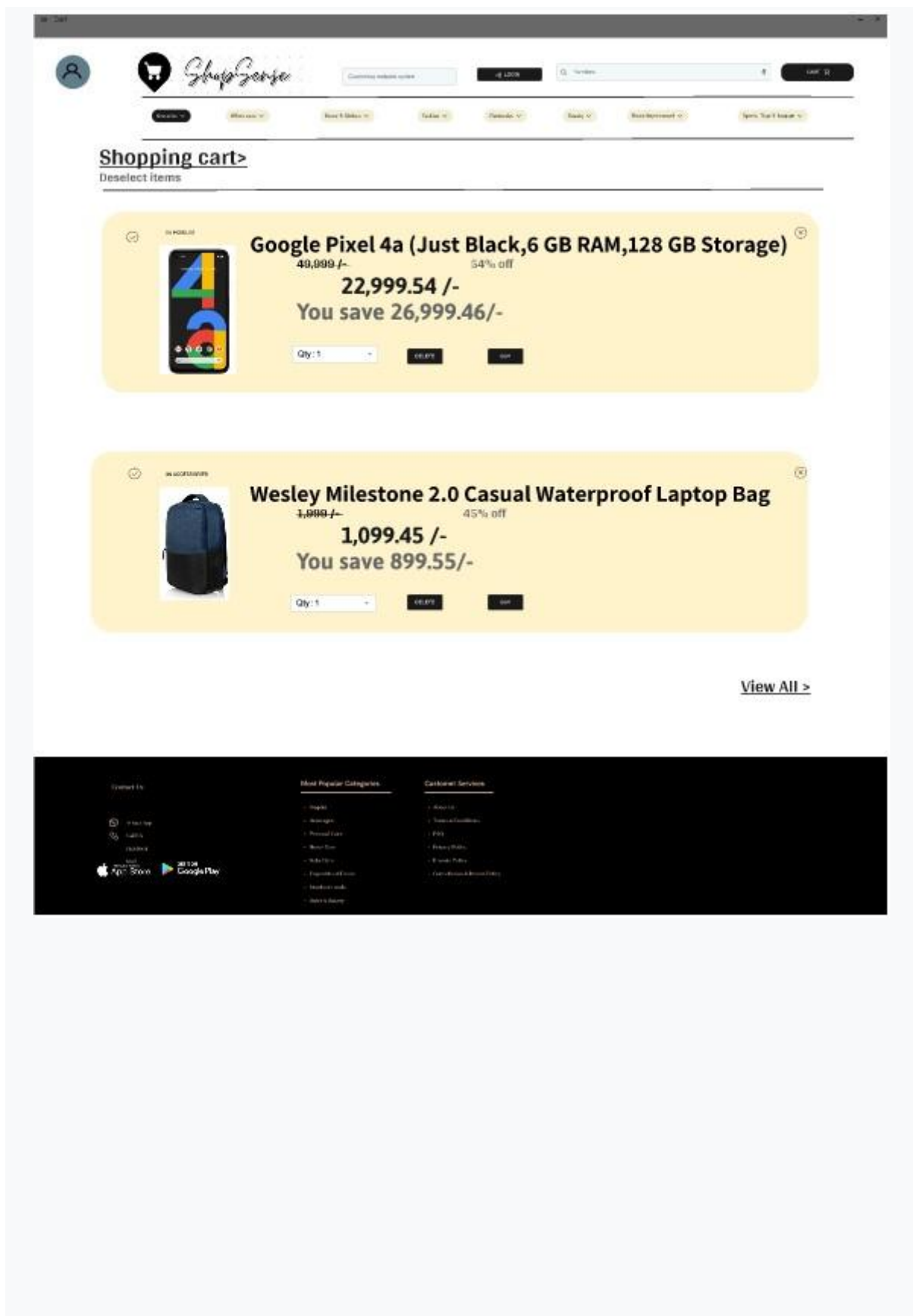
## 1.4. Home page



## 1.5. Product page



## 1.6. Cart page



## 1.7. Search result

WELCOME TO SHOPSENSE

[Home](#)
[Offers](#)
[New Arrivals](#)
[Sofas](#)
[Beds](#)
[Dining](#)
[Dining Tables](#)
[Beds, Sofas & Dining](#)

Buy now >

Sofa >

**Dr Smith 3 seater sofa bed**  
7,999 ₹ -10% off  
Buy now >

**LAZI 2 seater fitted sofa**  
16,999 ₹ -48% off  
Buy now >

**Adorn India 2 seater plain sofa**  
14,999 ₹ -70% off  
Buy now >

**uberly 3 seater sofa cum bed**  
28,750 ₹ -10% off  
Buy now >

Bed >

**Furino Solid Wood bed**  
21,700 ₹ -10% off  
Buy now >

**Wishful Queen size bed**  
27,580 ₹ -25% off  
Buy now >

**Artemis by GF2H Phase Wood bed**  
15,705 ₹ -47% off  
Buy now >

**RJ ART Wood King Size double bed**  
15,000 ₹ -24% off  
Buy now >

Dining table >

**Horne Center 6 Seater Dine table**  
27,540 ₹ -15% off  
Buy now >

**MANTA Sheesham Wood 4 seater**  
17,000 ₹ -46% off  
Buy now >

**@horne by Mikamal dining table**  
15,180 ₹ -11% off  
Buy now >

**Custom Decor 6 seater dining table**  
27,990 ₹ -43% off  
Buy now >

Download To:


Most Popular Categories

- Sofas
- Beds
- Dining Table
- Floor Lamp
- Bed Lamp
- Washbasin (200)
- Bed & Bath
- 2000 & Above


Customer Services

- About Us
- Terms & Conditions
- FAQ
- Privacy Policy
- Contact Us
- Return & Refund Policy

## 1.8. Order summary



**Home Center 2 seater sofa**  
~~67,599/-~~ 50% off  
**33,799.50 /-**  
You save 33,799.5/-



---

**Shipping address:** House no , Apartment name,  
Road name, Place name,  
City, State

**Pin-code** : 000000

**Order number** : SS10001



**Order date and time** : 01-01-2023 , 17:00 hrs

**Amount in words** : Thirty three thousand seven hundred and ninety nine rupees and fifty paise only

---

Total price: 33,799.50 Rs  
Shipping charge:30 Rs  
Delivery charge :10 Rs


**TOTAL: 33,839 Rs**



**Home Center 2 seater sofa**  
~~67,599/-~~ 50% off  
**33,799.50 /-**  
You save 33,799.5/-

---

**Order placed successfully!!!**



Total price: 33,799.50 Rs  
Shipping charge:30 Rs  
Delivery charge :10 Rs

**TOTAL: 33,839 Rs**



## 2. Overall Architecture

Our project is an e-commerce website that will be developed using React.js for the front end and Node.js for the back end. We have chosen to implement this website using the **M E R N architecture**, which stands for **Mongo DB, Express, React, and Node** – are the four key technologies involved in the development process.

**Mongo DB — document database**

**Express(.js) — Node.js web framework**

**React(.js) — a client-side JavaScript framework**

**Node(.js) — the premier JavaScript web server**

The **MERN** architecture allows you to easily construct a three-tier architecture (front end, back end, database) entirely using **JavaScript** and **JSON**.

### 2.1. API listing

#### Login page

##### 1.(POST)api/auth/login

```
{  
  "username" : username | required  
  "Password" : password | required  
}
```

#### Sign In page

##### 1.(PUT)api/auth/register

- create new account by storing the user details

Sample details are

```
{  
  "name" : string | required  
  "email" : email |required  
  "phone" :int | required  
  "name" : string | required
```

```
"password" : string | required
```

```
}
```

## Home page

### 1.(GET)api/product

- fetch details of the selected product

### 2.(GET)api/user

- fetch the details of logged user

### 3.(POST)api/cart

- store and fetch the details of product in cart

## Product page

### 1.(POST)api/cart

- store and fetch the details of product in cart

### 2.(POST)api/buy

- fetch the details of selected product and stores in  
Order table & navigate to order page

### 3.(POST)api/review

- store review and rate about the product

## Cart page

### 1.PUT(api)cart-product

- api used to update the product in the cart table

### 2.DELETE(api)cart-delete

- remove the selected product from the cart list

### 3.(POST)api/cart-buy

- fetch the details of selected product and stores in

Cart table & navigate to order page

### **Category page**

#### **1.(GET)api/category**

- fetch details of existing categories

#### **2.(PUT)api/create-category**

- create new category by storing the details

#### **3.DELETE(api)category-delete**

- remove the selected category

### **Admin-product page**

#### **1.(PUT)api/create-product**

- add new product by storing the details

#### **2.DELETE(api)product-delete**

- remove the selected product

#### **3.PUT(api)product-update**

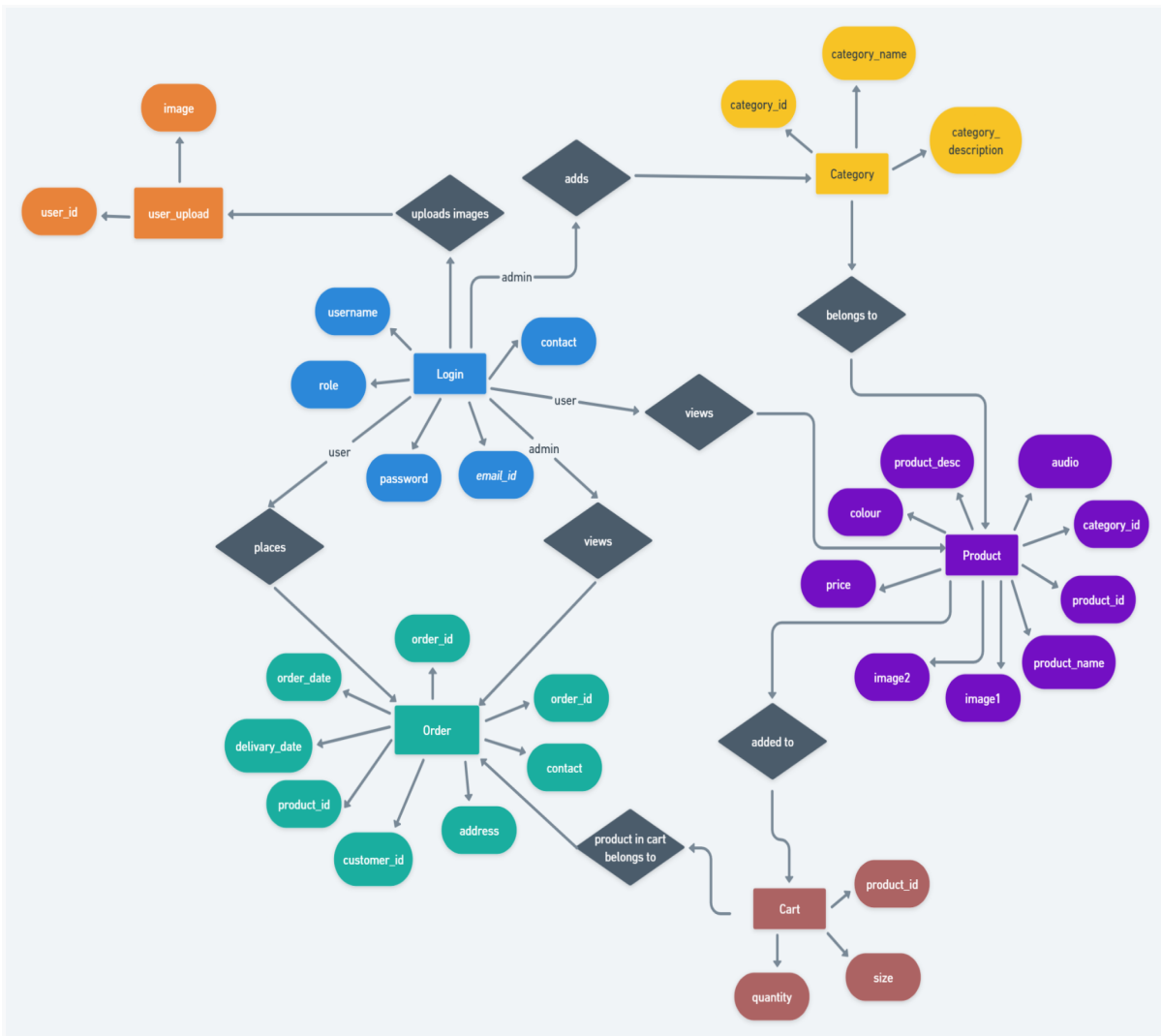
- api used to update the details of product

### **Order page**

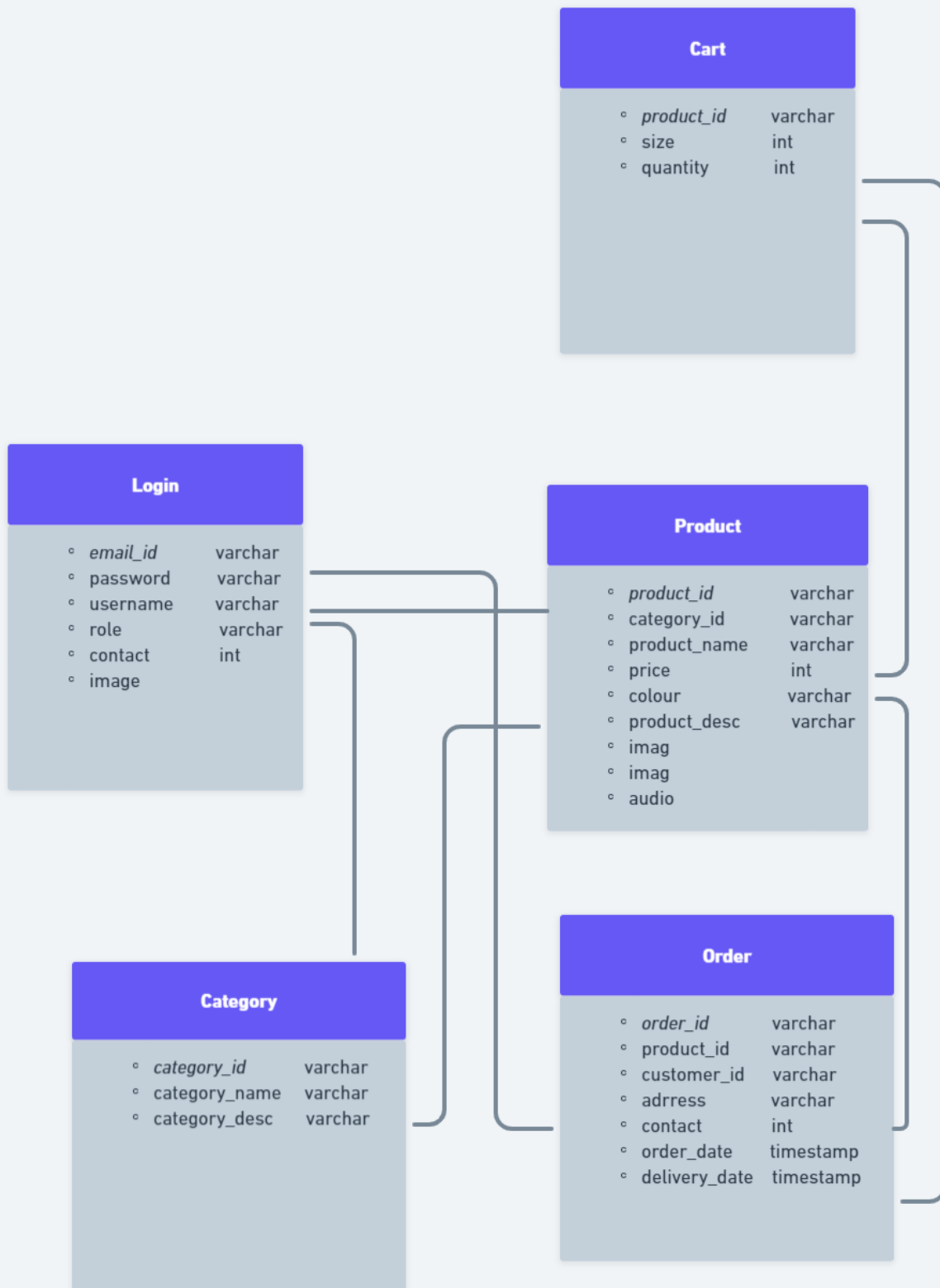
#### **2.(PUT)api/order**

- place the order by storing the details

### 3. Entity relationship diagram

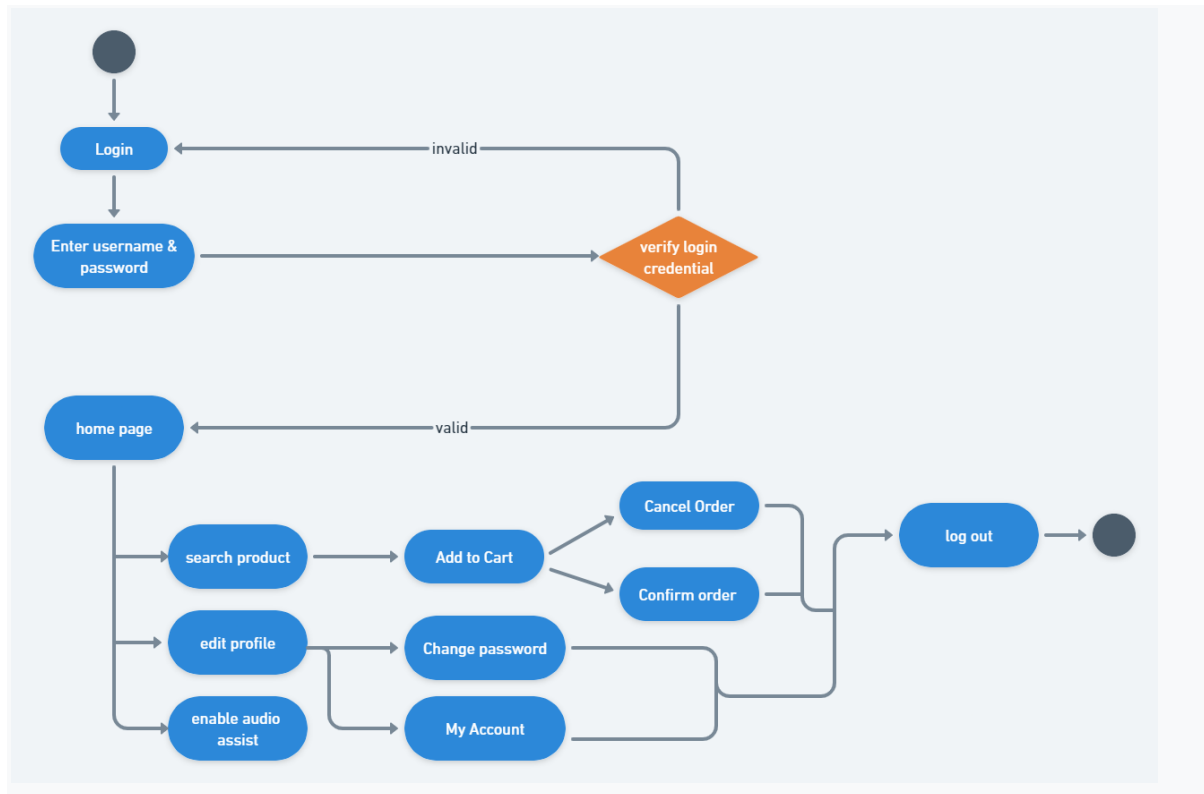


#### 4. DB design of tables

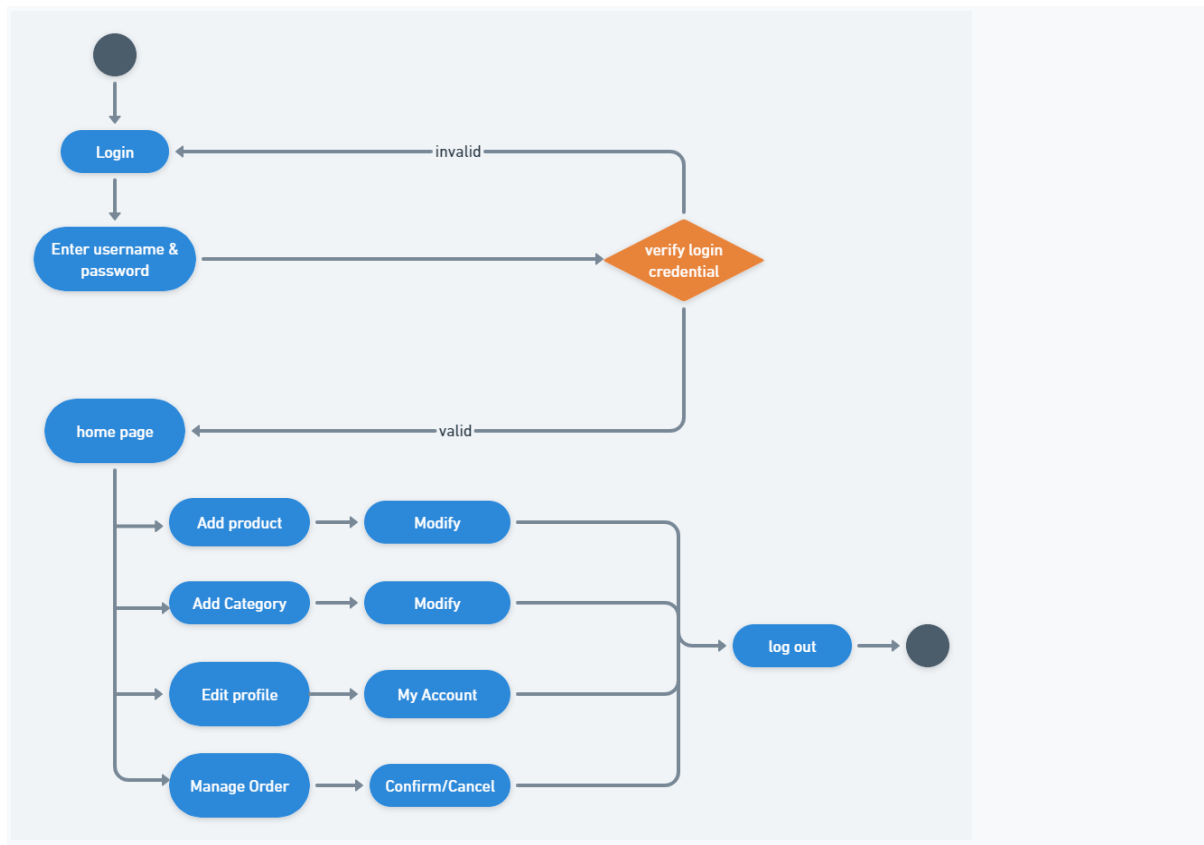


## 5. Details of workflow

### 5.1. Activity diagram of user



### 5.2. Activity diagram of admin



## **6. Approx User Story**

### **6.1. Admin**

- Log into the e-commerce site, create an account, and access the site's features.
- Audio assistance enabling option
- Browse through the products on the e-commerce site.
- Add desired products to the cart on the e-commerce site.
- Add new products to the e-commerce site.
- Add a new category to the e-commerce site.
- Update existing products on the e-commerce site.
- Manage customer accounts and orders on the e-commerce site.
- Log out

### **6.2. Customer**

- Log into the e-commerce site, create an account, and access the site's features.
- Audio assistance enabling option
- Browse through the products on the e-commerce site.
- Add desired products to the cart on the e-commerce site.
- Leave ratings and reviews on the products on the e-commerce site.
- Place order
- View their order history on the e-commerce site.
- Share product details and recommendations with friends and family through social media platforms from the e-commerce site.
- Log out

## **7. Tasks**

### **7.1. UI design**

- 7.1.1. Login page**
- 7.1.2. Sign In page**
- 7.1.3. Home page**
- 7.1.4. Welcome page**
- 7.1.5. Product page**
- 7.1.6. Cart page**
- 7.1.7. Order page**
- 7.1.8. Admin page**

### **7.2. Database design**

### **7.3. System Architecture design**

### **7.4. UI implementation**

- 7.4.1. Login page**
- 7.4.2. Sign In page**
- 7.4.3. Home page**
- 7.4.4. Welcome page**
- 7.4.5. Product page**
- 7.4.6. Cart page**
- 7.4.7. Order page**
- 7.4.8. Admin page**

- 7.5. Create new user by storing details**
- 7.6. Login successfully while login details are matches the data in database otherwise fail**
- 7.7. Add new product by entering details by admin**
- 7.8. Update product details**
- 7.9. Display products or items**
- 7.10. Add product to cart**
- 7.11. Place an order successfully**
- 7.12. Add new category**
- 7.13. Display category**
- 7.14. Option for enabling audio assistance**
- 7.15. Playing audio description about each product**
- 7.16. Keyboard navigation**



## 8. Software architecture diagram

