PROJECT REPORT

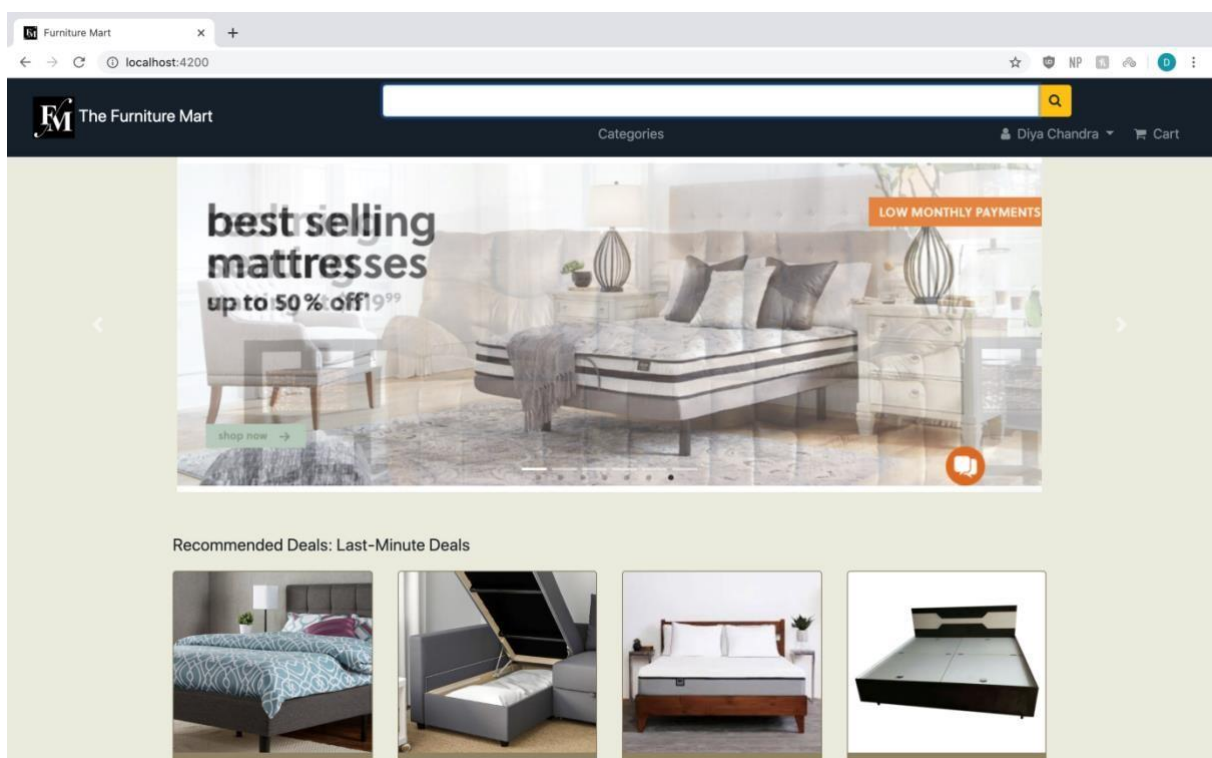**Title**: Online Furniture Store **Website**

Name: The Furniture Mart

Description:

The project is "The Furniture Mart" web application which provides a platform for buying and selling of furniture like Bookshelf, Mattress and Bed etc.
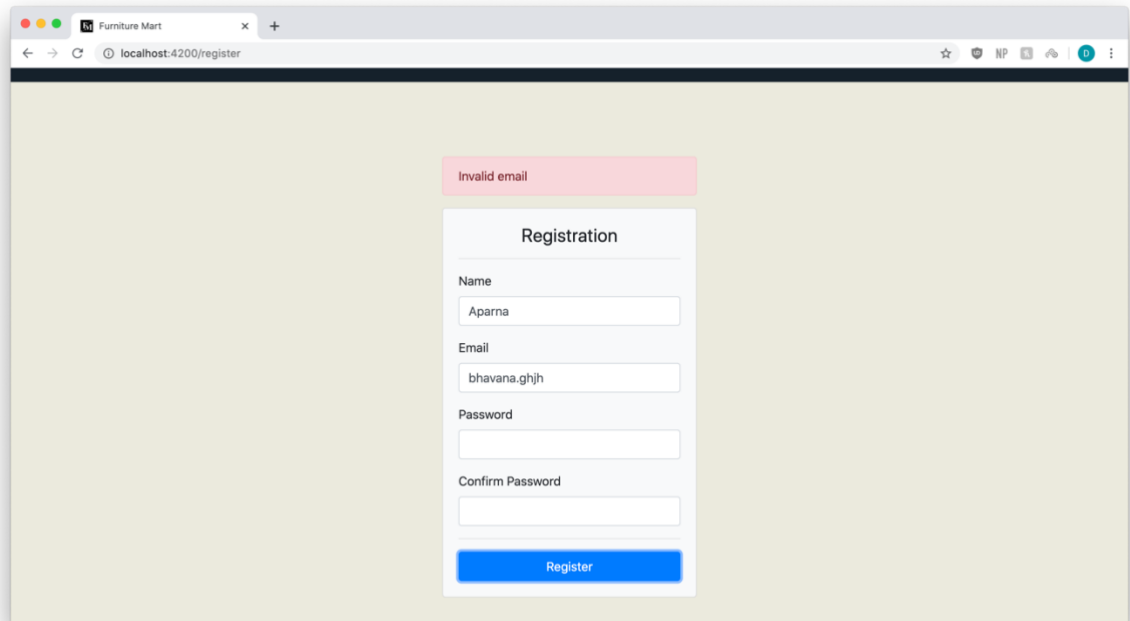

Assumptions:

Admin account is pre-created.

The following functionalities are supported:

1) Register Signup – Register new user to system. As a part of registration we check if:
   i)   the username and email is already registered to the system ii)   the form is

valid iii)   the password is strong enough. Hashed versions of passwords are

stored in the database.

_id: ObjectId("5eb5cbb1a100a129a71be67b")
isSeller: false
created: 2020-05-08T21:14:25.445+00:00
name: "Diya Chandra"
email: "diaa.chandra1@gmail.com"
password: "$2a$10$ALflmbqzM4Nr..CZt7ReBOfYzkczxWg2/WghHsnJXwpbIb7aVdpby"
picture: "https://gravatar.com/avatar/a16d562e1b48d07213f6d8c2e18f3874?s200&d=re..."
__v: 0
> address: Object

2) User login – Registered user can login

3) Available products will be listed. User can filter out the results based on category and can also search for a specific product. Search and filtering are integrated.
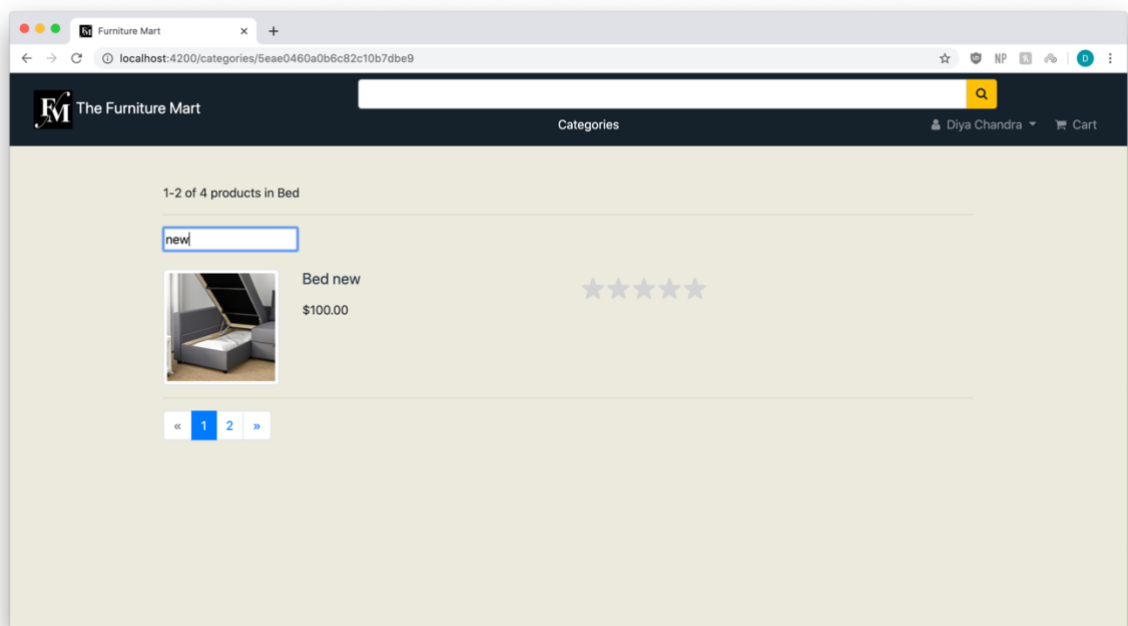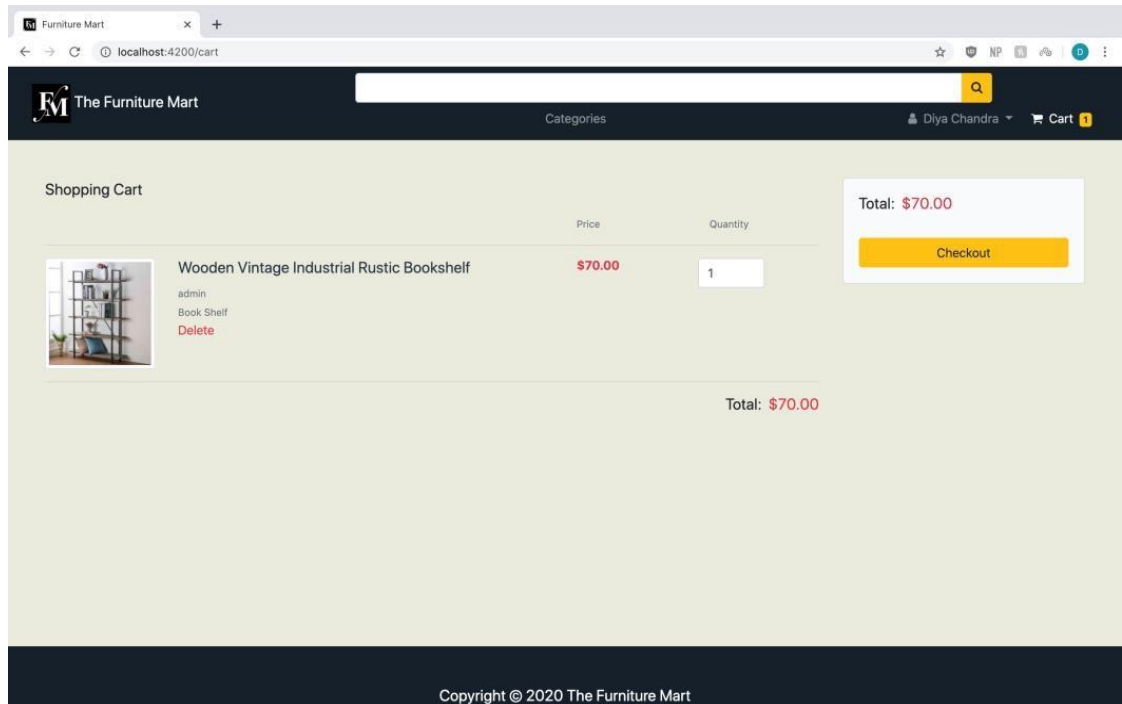

4) Paging functionality is incorporated with filtering, search and listing products functions.
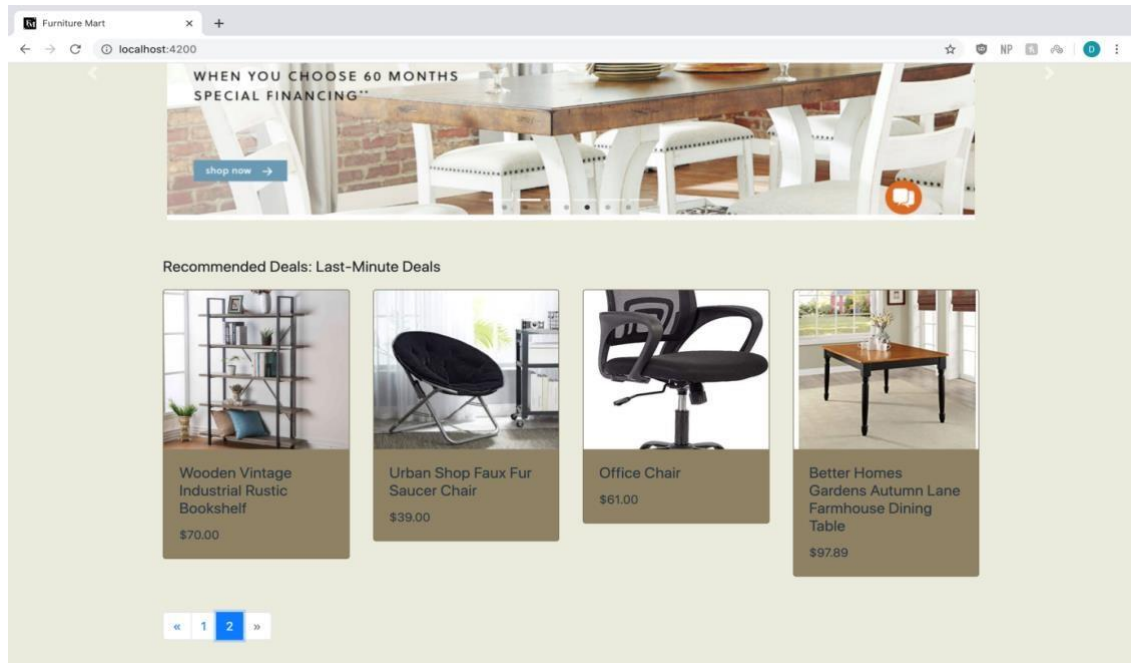
5) After logging in, the user can add products to the cart and checkout. Pricing is included. Once the product is checked out inventory will be updated. The user can track orders.
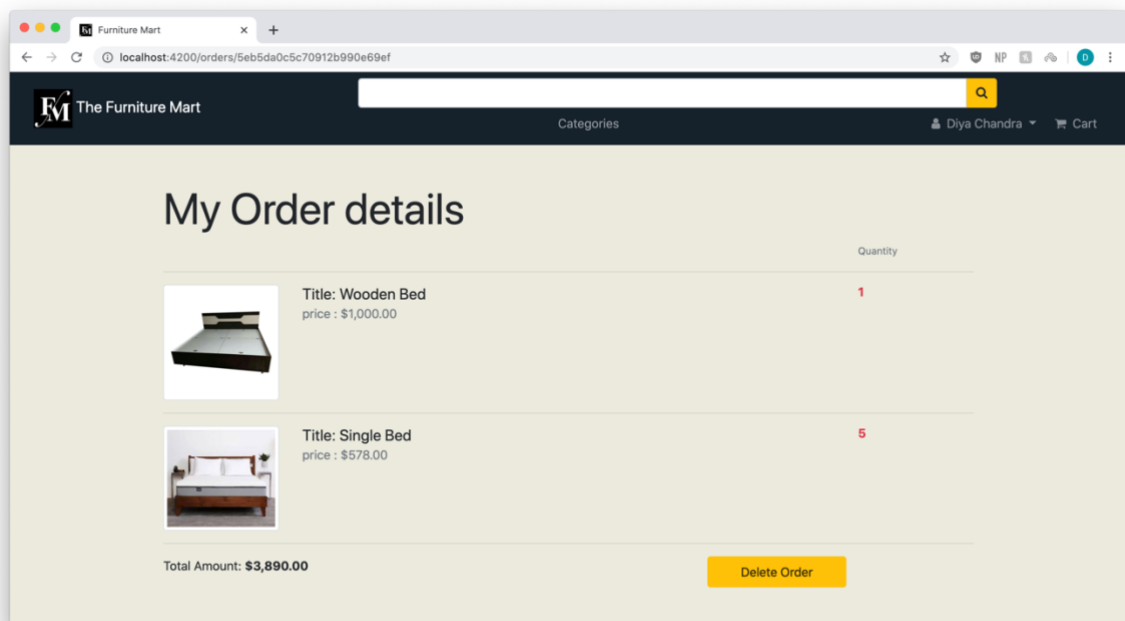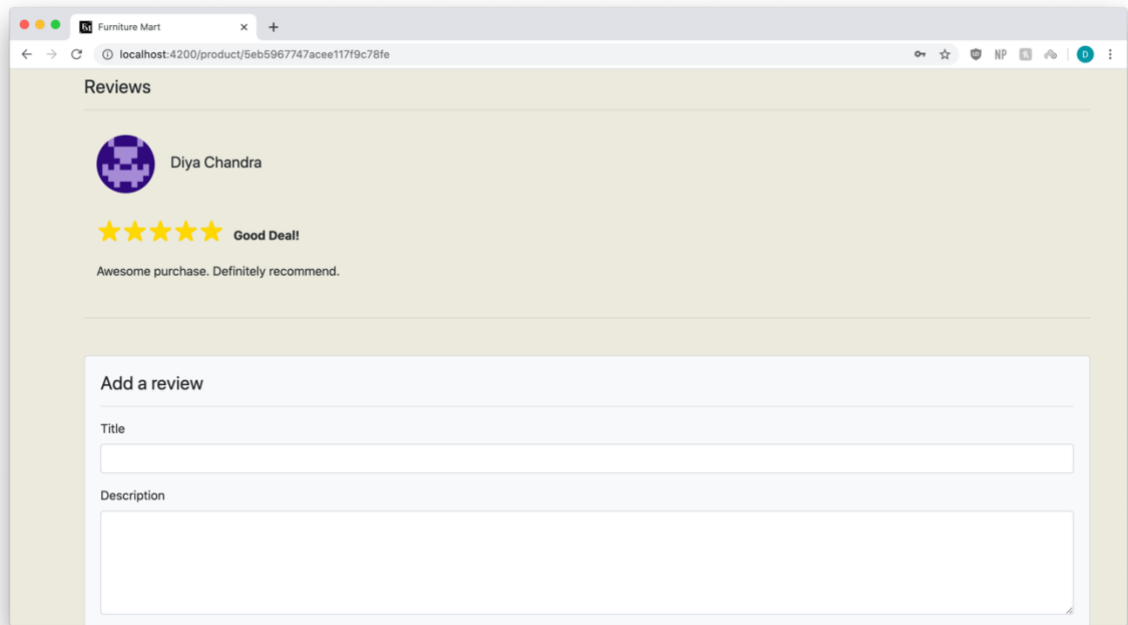

6) The user can remove the product or update their quantity in the cart.

7) User can see the history of purchases.
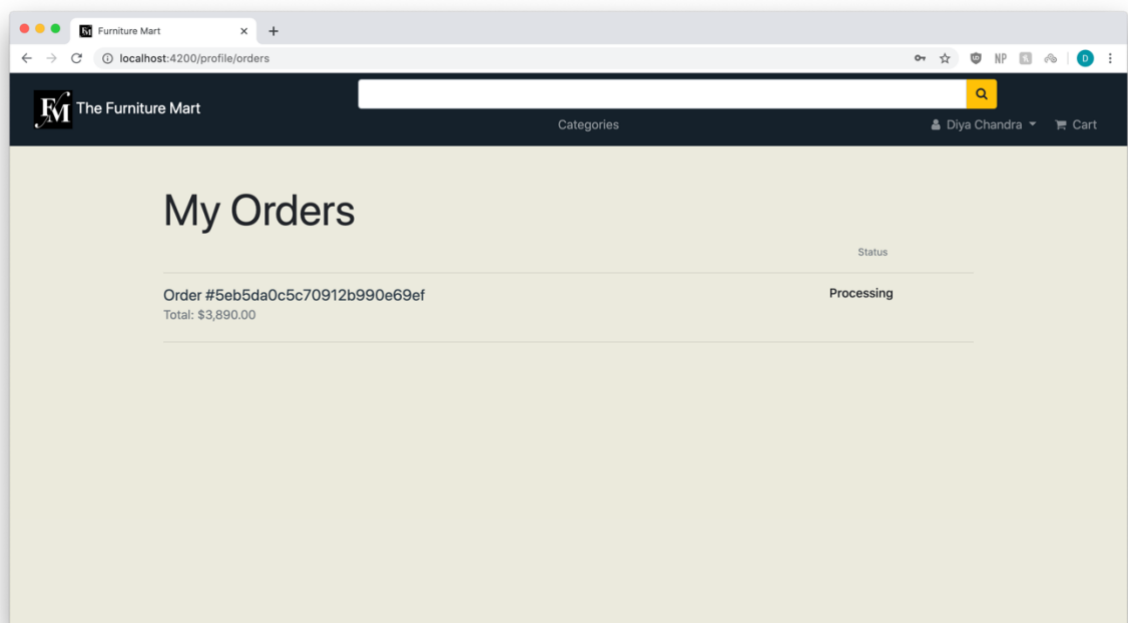
8) There is also a provision for ratings and review for the products bought by the users.

9) The admin user can add new items, list all products, update and delete (soft delete) items. While adding/updating items, the admin can upload/update images.

Database Design:

We used MongoDB for database implementation and hosted data on Atlas cluster.

Categories Model

```
{
  _id: <objectId>,
  name: String
}
```

Users Model

```
{
  _id: <objectId>,
  isAdmin: Boolean,
  created: DateTime,
  name: String,
  email: String,
  password: String,
  picture: String
}
```

Products Model

```
{
  _id: <objectId>,
  reviews: String,
  created: DateTime,
  owner: <objectId>,
  category: <objectId>,
  title: String,
  price: Number,
  quantity: Number,
  description: String,
  image: String,
  isDeleted: Boolean
}
```

Orders Model

```
{
  _id: <objectId>,
  totalPrice: Number,
  products: Array,
  owner: <objectId>
}
```

Reviews Model

```
{
  _id: <objectId>,
  rating: Number,
  created: DateTime,
  owner: <objectId>,
  title: String,
  description: String
}
```

Technologies:

Front-end: HTML, CSS, Bootstrap, AngularJS, AJAX, JQuery

Back-end: NodeJS, ExpressJS, MongoDB, MongoDB Atlas Service