**Creating the Server**  
**Step 1:** Initialize the package.json file using npm init -y for the default configuration, or npm init for a custom setup

**Step 2:** Install the required packages like bcrypt.js, or mongoose etc

**Step 3:** Create a .gitignore file, to tell the git which files I do not want to push in my repo like env file and node\_modules file

**Step 4:** Create a server.js file as a main entry point in the folder

**Step 5:** Connect with database, create a project in Mongodb

KylGPOyqHd3zN9kx

mongodb+srv://dubeyanshul2204:KylGPOyqHd3zN9kx@cluster0.ng0yraz.mongodb.net/

**Step 6:** Create a app in server.js and connect the database with mongoose.connect()

**Step 7:** Configure the CORS (cross origin resource sharing) with app.use()

**Step 8:** Configure the cookie parser and express.json() with app.use()

===========Done with basic server configuration=========

**Step 9:** Create models folder (model defines what properties we save in database), create controllers folder (controller holds the logic for the each route we define), create routes folder (routes holds the api routes used on the website)

**Step 10:** Create a User Model

Create a User.js file inside the models folder.  
Import mongoose and define a UserSchema with userName, email, password, and role. Set proper types and required values.  
Export the model using mongoose.model("User", UserSchema)

**Step 11:** Create Auth Controller

Make a folder named auth/controllers. inside it, create auth-controllers.js and define the registerUser function. This function receives user data from req.body, checks if the user exists, hashes the password, saves the user using the model, and returns a success or error response

**Step 12:** Create Auth Route

Create a folder auth/routes and add a file auth-route.js.  
Import registerUser, create a router using express.Router(), and define a POST route at /register. use registerUser as the handler and export the router instance

**Step 13:** Configure Auth Route in server.js

In your backend server.js, import the route as authRoute from auth/routes/auth-route.js. use app.use("/api/auth", authRoute) to connect it. now the register route is available at /api/auth/register

Go and configure redux in frontend

===========Done with Basic Routing for register==========

**Step 14:** User is still not authenticated after registration, so we need to log them in. Based on the user's role, navigate them to either the admin view or the shopping view. For now, manually update a registered user’s role to admin

**Step 15:** Configure the login Controller in user.controller.js

Destrucuture the email and password form req.body, then check if user already exist