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| **Team ID :** LTVIP2025TMID54810 |
| **Project Name :** ShopSmart: Your Digital Grocery Store Experience | |
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**Pre-requisites**

To develop a full-stack Grocery web app using AngularJS, Node.js, and MongoDB, there are several prerequisites you should consider. Here are the key prerequisites for developing such an application:

Node.js and npm: Install Node.js, which includes npm (Node Package Manager), on your development machine. Node.js is required to run JavaScript on the server side.

* Download: <https://nodejs.org/en/download/>
* Installation instructions: <https://nodejs.org/en/download/package-manager/>

MongoDB: Set up a MongoDB database to store hotel and booking information. Install MongoDB locally or use a cloud-based MongoDB service.

* Download: <https://www.mongodb.com/try/download/community>
* Installation instructions: <https://docs.mongodb.com/manual/installation/>

 Express.js: Express.js is a web application framework for Node.js. Install Express.js to handle server-side routing, middleware, and API development.

* Installation: Open your command prompt or terminal and run the following command: npm install express

Angular: Angular is a JavaScript framework for building client-side applications. Install Angular CLI (Command Line Interface) globally to create and manage your Angular project.

  Install Angular CLI:

* Angular provides a command-line interface (CLI) tool that helps with project setup and development.
* Install the Angular CLI globally by running the following command:

npm install -g @angular/cli

Verify the Angular CLI installation:

* Run the following command to verify that the Angular CLI is installed correctly: ng version

You should see the version of the Angular CLI printed in the terminal if the installation was successful.

Create a new Angular project:

* Choose or create a directory where you want to set up your Angular project.
* Open your terminal or command prompt.
* Navigate to the selected directory using the cd command.
* Create a new Angular project by running the following command: ng new client Wait for the project to be created:
* The Angular CLI will generate the basic project structure and install the necessary dependencies

Navigate into the project directory:

* After the project creation is complete, navigate into the project directory by running the following command: cd client

Start the development server:

* To launch the development server and see your Angular app in the browser, run the following command: ng serve / npm start
* The Angular CLI will compile your app and start the development server.
* Open your web browser and navigate to http://localhost:4200 to see your Angular app running.

You have successfully set up Angular on your machine and created a new An- gular project. You can now start building your app by modifying the generated project files in the src directory.

Please note that these instructions provide a basic setup for Angular. You can explore more ad- vanced configurations and features by referring to the official Angular documentation: https://angular.io

 HTML, CSS, and JavaScript: Basic knowledge of HTML for creating the structure of your app, CSS for styling, and JavaScript for client-side interactivity is essential.

 Database Connectivity: Use a MongoDB driver or an Object-Document Mapping (ODM) library like Mongoose to connect your Node.js server with the MongoDB database and perform CRUD (Create, Read, Update, Delete) operations.

 Front-end Framework: Utilize Angular to build the user-facing part of the application, including products listings, booking forms, and user interfaces for the admin dashboard.

Version Control: Use Git for version control, enabling collaboration and tracking changes throughout the development process. Platforms like GitHub or Bitbucket can host your repository.

* Git: Download and installation instructions can be found at: <https://git-scm.com/downloads>

Development Environment: Choose a code editor or Integrated Development Environment (IDE) that suits your preferences, such as Visual Studio Code, Sublime Text, or WebStorm.

* Visual Studio Code: Download from[https://code.visualstudio.com/download](http://./%20https:/code.visualstudio.com/download%20)
* Sublime Text: Download from <https://www.sublimetext.com/download>
* WebStorm: Download from <https://www.jetbrains.com/webstorm/download>

To Connect the Database with Node JS go through the below provided link:

 • Link: [https://www.section.io/engineering-education/nodejs- mongoosejs-mongodb/](https://www.section.io/engineering-education/nodejs-%20mongoosejs-mongodb/)