

Part 4: Server Design Document

1. POST /register (Public)
Description: Register a new user and store their information in the database.
2. POST /login (Public)
Description: Authenticate a user and create a session.

Server Logic

1. POST /register
 - Validate user input (email, password, name, address, city, state, zip, phone).
 - Check if the user already exists in the database using the provided email.
 - Hash the password using bcrypt.
 - Create a new User instance and store it in the database.
2. POST /login
 - Validate user input (email, password).
 - Find the user in the database using the provided email.
 - Compare the provided password with the hashed password stored in the database using bcrypt.
 - If the password matches, create a session and authenticate the user.

Server Fetches

1. POST /register
 - findOne: Query the database to find a user with the provided email.
 - save: Insert the new user into the database.
2. POST /login
 - findOne: Query the database to find a user with the provided email.

Tooling & Libs

1. Express: A web application framework for Node.js that is used to build the server and handle HTTP requests.
2. Mongoose: An Object Data Modeling (ODM) library for MongoDB and Node.js. It manages relationships between data, provides schema validation, and is used to translate between objects in code and the representation of those objects in MongoDB.
3. bcrypt: A library to help you hash passwords for secure storage.
4. body-parser: Middleware to parse the request body and make it available in a more convenient format (e.g., req.body).
5. dotenv: A library to load environment variables from a .env file into process.env.
6. Passport (optional): An authentication middleware for Node.js that can be used to handle user authentication in the app.