

Machine Test for MERN Full-Stack Development

Frontend (React)

User Authentication

1. Create a React application with user authentication.
2. Implement user registration and login functionalities with email and password.
3. Display a "Welcome, [username]" message when a user is logged in.

User Profile

1. After logging in, create a user profile page that displays user information.
2. Allow users to update their profile details (e.g., username, email).
3. Implement form validation for profile updates.

Create a Blog Post

1. Add a feature to create a blog post.
2. Implement a form with fields for the post title and content.
3. Save blog posts to a local state using Redux.
4. Backend (Node.js/Express, MongoDB)

Set Up Express Server

1. Create an Express server that listens on port 5000.
2. Set up necessary middleware for handling JSON data and authentication.

Blog Post Model and Database

1. Define a blog post model for MongoDB using Mongoose with the following fields: title, content, and author (store the author's user ID).
2. Use proper Mongoose schema and model definitions.
3. Implement database operations to save and retrieve blog posts.

API Endpoints

1. Create API endpoints for:
2. Creating a new blog post.
3. Fetching all blog posts.
4. Fetching a specific blog post by ID.

(optional)

1. Implement user roles (e.g., Admin and regular users). Admin users can delete any blog post.
2. Add pagination to the list of blog posts.
3. Allow users to add comments on blog posts.
4. Secure password storage by hashing it before saving it in the database.