

MERN Stack Developer Assignment

Project: Resume Builder with Theme Selection and Admin Panel

Objective:

Develop a full-stack MERN application that allows users to:

1. Register and log in (Authentication & Authorization).
 2. Upload and edit their resume in PDF format.
 3. View and download their resume.
 4. Choose a theme that reflects on the single-page website.
 5. Admin can view all uploaded resumes and manage users.
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Project Requirements

1. User Authentication & Authorization

- Use **JWT** for authentication.
 - Implement **bcrypt** for password hashing.
 - Different roles:
 - **User**: Can upload/edit their resume, choose a theme.
 - **Admin**: Can view all resumes, manage users, and set a default theme.
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2. Resume Upload & Editing

- Allow users to upload a **PDF resume**.
 - Store uploaded resumes using **MongoDB**.
 - Provide an option to **edit and re-upload** the resume.
 - Users can view/download their resume.
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3. Admin Panel

- View a list of all users and their uploaded resumes.
- Approve or reject resumes.

- Assign themes to users.
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4. Theme Selection & Reflection

- Users can select a **theme** (dark mode, light mode, etc.).
 - The selected theme should apply to their **resume preview page**.
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5. Single Page Website

- Display user details and their resume.
 - The design should change based on the selected theme.
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Tech Stack

Frontend (React.js)

- React with **Context API** or **Redux** for state management.
- **Tailwind CSS** for styling.
- **React Router** for navigation.
- **PDF.js** for viewing PDF resumes.

Backend (Node.js, Express.js)

- **Express.js** for API creation.
- **Multer** for file uploads.
- **jsonwebtoken (JWT)** for authentication.
- **MongoDB** with Mongoose for database management.

Database (MongoDB)

- Store user details and uploaded resumes.
- Track selected themes.