

MERN FULL STACK PROJECT

ASSIGNMENT



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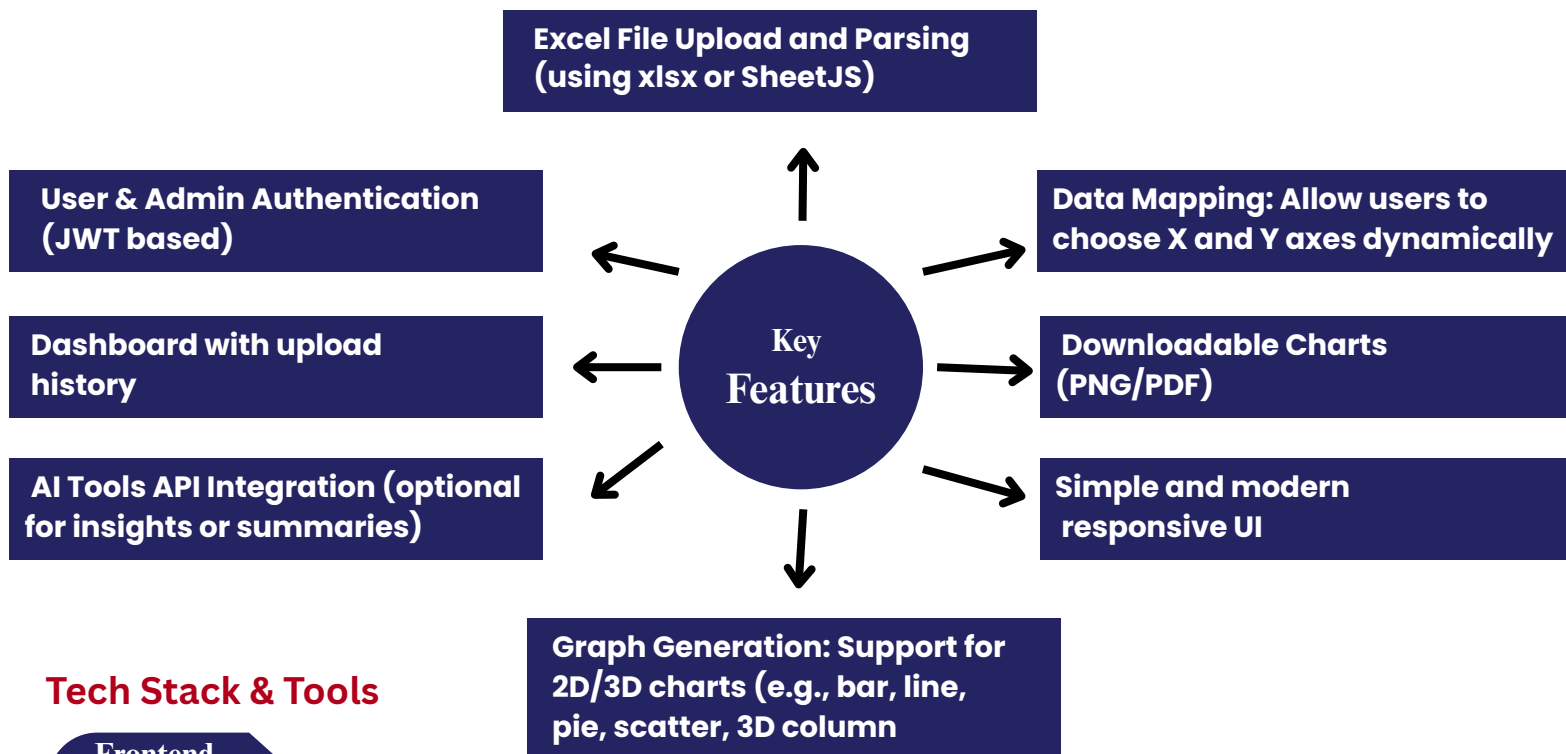
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Project 1: Excel Analytics Platform

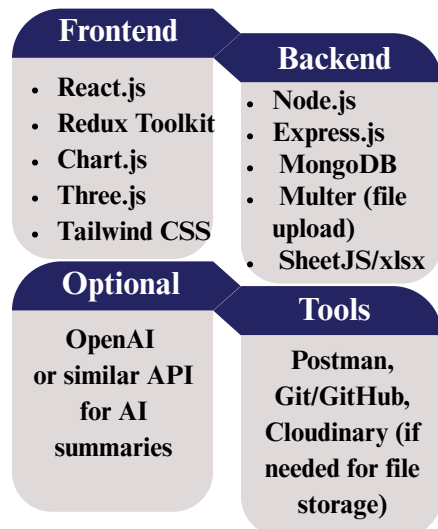
These two MERN (MongoDB, Express.js, React.js, Node.js) stack-based full-stack projects are designed for students to complete over a 10-week period. Each project is divided into 5-week modules with structured goals, guidance, and references for development. The purpose is to give hands-on experience with complete application development using the MERN stack.

Description:

A powerful platform for uploading any Excel file (.xls or .xlsx), analyzing the data, and generating interactive 2D and 3D charts. Users can select X and Y axes from the column headers of the Excel file, choose chart types, and generate downloadable graphs. Each user's history of uploads and analysis is saved and visible on their dashboard. Admin can manage users and data usage. The platform will optionally integrate AI APIs to provide smart insights or summary reports from the uploaded data

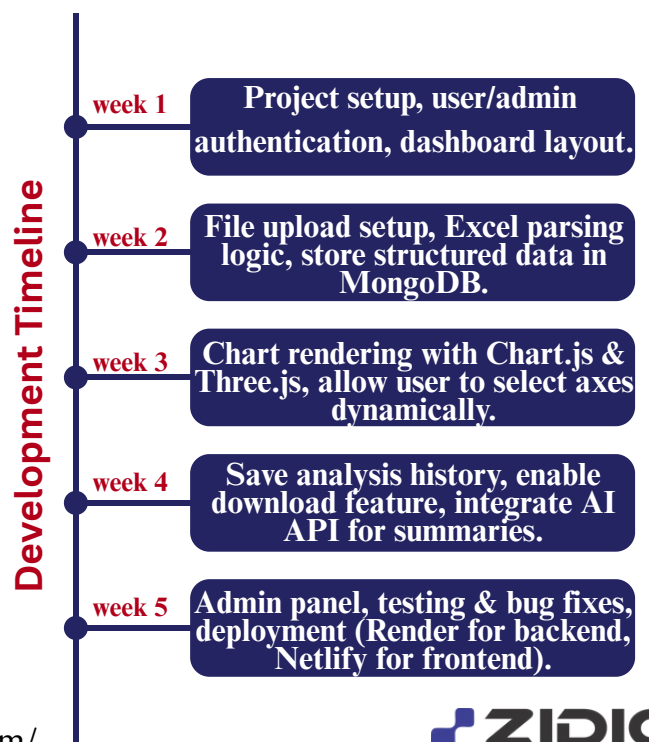


Tech Stack & Tools



References

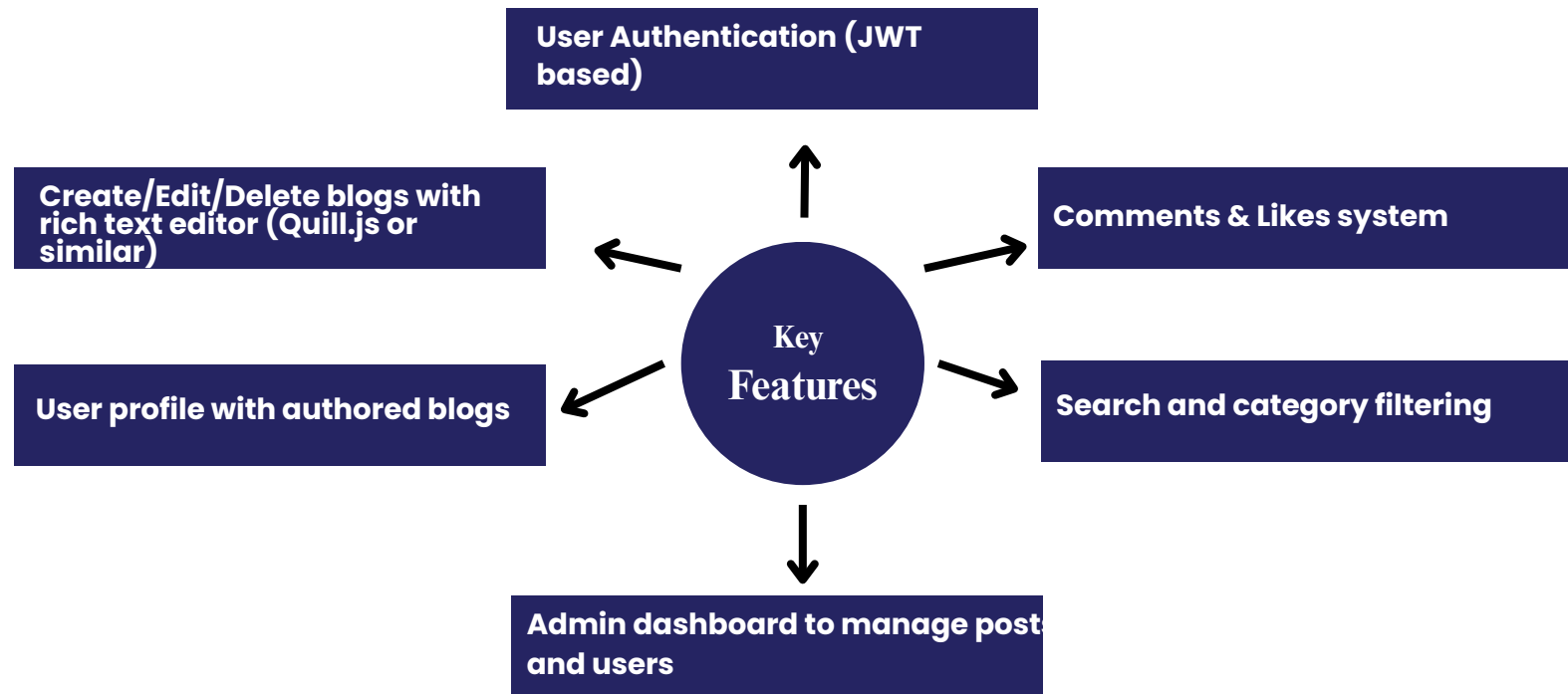
- Sheet JS (<https://sheetjs.com/>)
- Chart.js (<https://www.chartjs.org/>)
- Three.js (<https://threejs.org/>)
- YouTube: JavaScript Mastery, Codevolution, Fireship
- Sample inspiration app: <https://chart-studio.plotly.com/>



Project 2: Blogging Platform

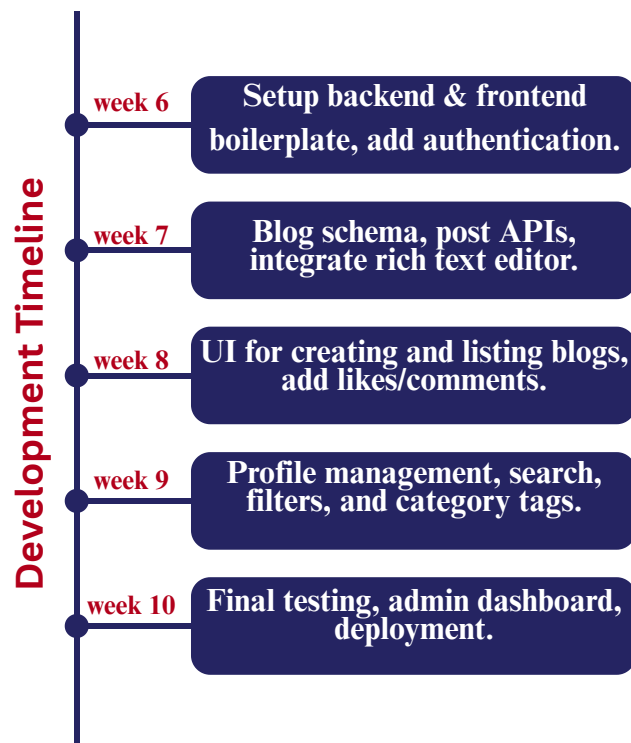
Description:

A blogging application where users can create, edit, delete and view blogs. Includes rich text editor, likes, comments, and profile management.



Tech Stack & Tools

Frontend:	Backend:	Tools:
React.js, Redux, Tailwind CSS, React Quill	Node.js, Express.js, MongoDB	GitHub, Cloudinary (for image upload), Postman



References

YouTube: Clever Programmer (<https://www.youtube.com/c/CleverProgrammer>)

Codevolution (<https://www.youtube.com/c/Codevolution>)

Sample app: <https://medium.com/>