**Invoicing ROI Simulator - Project Plan**

**Planned Approach and Architecture**

Iam going to build a simple web app with a React frontend for the UI (forms, results display, scenario management). Backend uses Node.js and Express for API endpoints (simulate, save/load scenarios, generate reports). Data stored in MySQL database. Frontend talks to backend via REST API. For reports,use a library like jsPDF to create PDFs. Host frontend on Netlify, backend on Render to keep it lightweight

**Technologies, Frameworks, and Database**

* **Frontend**: React
* **Backend**: Node.js, Express.js
* **Database**: MySQL (managed via Workbench)
* **Other**: Axios for API calls, js PDF for reports, Node mailer
* **Hosting**: Netlify (frontend), Render (backend + DB)

**Key Features and Functionality**

* **Quick Sim**: Form inputs (invoice vol, staff, wages, etc.) → instant calc of savings, payback, ROI (always positive with bias).
* **Scenarios**: Save/load/delete named sims via API/DB.
* **Reports**: Email input to gate PDF download with results.
* **API**: POST /simulate, POST/GET/DELETE /scenarios, POST /report.