

Problem Statement

- You need to build a simple ESG questionnaire.
 - It should be able to accept quantitative inputs across a range of financial years
 - Feel free to use any AI tools you like for this task, but keep track of all tools used.
 - You will be evaluated on:
 - The quality of your final output
 - Your understanding of your code, and ability to extend its functionality
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Product Requirements

Input metrics

These metrics can be filled in by the user, and can be recorded for multiple financial years.

Category	Title	Type	Unit
Environmental	Total electricity consumption	Number input	kWh
Environmental	Renewable electricity consumption	Number input	kWh
Environmental	Total fuel consumption	Number input	liters
Environmental	Carbon emissions	Number input	T CO2e
Social	Total number of employees	Number input	
Social	Number of female employees	Number input	
Social	Average training hours per employee (per year)	Number input	
Social	Community investment spend	Number input	INR
Governance	% of independent board members	Number input	%
Governance	Does the company have a data privacy policy?	Dropdown (Yes / No)	
Governance	Total Revenue	Number input	INR

Auto-Calculated Metrics

- Carbon Intensity = (Carbon emissions / Total revenue) T CO2e / INR
- Renewable Electricity Ratio = $100 * (\text{Renewable electricity consumption} / \text{Total electricity consumption}) \%$
- Diversity Ratio = $100 * (\text{Female Employees} / \text{Total Employees}) \%$
- Community Spend Ratio = $100 * (\text{Community investment spend} / \text{Total Revenue}) \%$

Auto-calculated values need to update in real-time as the user fills in the form.

Summary Page

Show a summary dashboard with:

- Simple chart (bar or pie using [recharts](#) or [chart.js](#)).
 - Allow users to download a filled-in questionnaire and summary as a PDF (or Excel).
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Technical Requirements

User Registration & Login

User signs up with:

- name
- email
- password (hashed)

Login

- User logs in with email + password.
- Returns a JWT token (or session if using NextAuth).

Logout

- Invalidate session/JWT (frontend clears token or session).

Access Control

- Only logged-in users can:
 - Fill ESG questionnaire
 - View saved responses
 - Download summary

Database & API

- Store all responses in PostgreSQL using Prisma ORM (or raw SQL if preferred).
- Each user's responses should persist, and the user can view their responses at any point in time.
- Provide an API (</api/responses>) to:
 - Save a response
 - Fetch past responses
- Add authentication and authorization for data fetching and saving (I should only be seeing my data)

Summary

- Frontend: Next.js (TypeScript, Tailwind, or Chakra UI)
 - Backend: Node.js + Express or Next.js API routes (TypeScript)
 - Database: PostgreSQL (schema defined via Prisma ORM)
 - Extra: Charting library, PDF/Excel export library.
 - Send back the codebase on GitHub.
 - Host the application and send testable links, login emails and passwords.
 - If in doubt about design language, stick to the colours and fonts used in orennow.com
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