

Part – 3 Applied Case Study

A. Require Breakdown

- HTML
 - ❖ Used to build the basic structure of the website pages like Home, Contact, order Form.

It defines headings, forms, buttons, and overall layout.
- CSS :
 - ❖ Used to style the website like colors, fonts, spacing, and responsiveness.

It makes the laundry website clean and user-friendly.
- JS
 - ❖ Used for interactive features like validating customer forms, updating order status on the dashboard, and sending API calls to the backend.
- Node.js:
 - ❖ It is for the backend because it handles API requests efficiently, works well with JavaScript, and is good for small digital systems.
 - ❖ It helps store and fetch orders from the database.
- Python:
 - ❖ Python can be used for the AI chatbot logic.
 - ❖ It's easy to integrate machine learning/FAQ bots using Python libraries.
- Database (PostgreSQL):
 - ❖ PostgreSQL (or Postgres) is a powerful, open-source Database system.
 - ❖ Used for customer records, and tracking data..
- APIs
 - ❖ APIs connect the website to the backend.
 - ❖ Website → API → Database (store orders)
 - ❖ Dashboard → API → fetch order list
- Cloud Hosting:
 - ❖ Use services like AWS, Azure, GCP to deploy the website and backend.
 - ❖ Cloud hosting ensures the site is available online and can scale when more customers use it.
- AI Chabot:
 - ❖ Use ChatGPT API, or BotPress to create a simple FAQ bot.
 - ❖ It answers common questions like pricing, delivery time, and services..

B. Simple System Diagram (EcoClean Laundry – Digital Transformation)

