

Developer Documentation

Responsibility:

- **Primary:** Clover and Kailash, Sameer

Content:

The website is a full-stack web application that allows users to register, log in, and browse an online PC components catalog with search and sorting functionality.

System Architecture Overview:

- **Frontend:** HTML, CSS, JavaScript
- **Backend:** Node.js with Express.js
- **Database:** MySQL
- **Hosting:** Deployed on Ngrok

Database Schemas:

- **Users Table** (id, username, email, password, created_at)
- **Components Table** (id, name, category, brand, price, stock, description, image_url)
- **Favorites Table** (id, user_id, component_id)
- Relationships:
 - A user can have multiple favorite components (One-to-Many)

API Endpoints

User Authentication

- **POST /api/register** – Register a new user
- **GET /api/user** – Authenticate username and password and redirects to catalog display

Format & Delivery:

- **Markdown files** stored in a /docs folder (README .md)
- **Inline code comments**

Where:

- In the project repo (or GitHub repo)
- Can be exported as a PDF for formal delivery