**Home Page Integration**

**Task Overview:**

My primary responsibility was to integrate all components, modules, and pages into the home page and deliver a cohesive and functional version of the project.

**Challenges Faced During Integration:**

During the integration phase, I encountered several issues:

* **Function Duplication:** Some components used duplicate function names, which led to conflicts and unexpected behavior during rendering.
* **Port Conflicts:** Different developers had configured their local environments with varying port numbers, causing major inconsistencies and server-related errors during deployment.
* **Inconsistent URLs and File Paths:** Several modules were built using different base URLs and file path conventions, which created complications in routing and API communication.

**Resolution Strategy:**

Initially, I attempted to debug and resolve the issues on my own. However, as the complexity increased, I realized a structured approach was necessary.

To resolve the issues efficiently:

* I reviewed the overall project structure and documented the discrepancies in function names, ports, and paths.
* I sent the affected components back to the respective developers with detailed feedback and requested them to:
  + Adhere to a consistent **file and folder structure**.
  + Use a **standardized port number** for local development.
  + Follow uniform **API URLs** and **routing conventions**.
  + Avoid function name duplication by following a naming convention.
* Once the corrections were made, I reintegrated the components, tested them thoroughly, and ensured smooth operation of the home page.

**Outcome:**

* By enforcing consistency across the codebase and improving communication with the development team, I successfully resolved the integration issues and delivered a stable and fully functional application.