Campus Hive Style Guideline

## **1. General JavaScript Best Practices**

* Use **camelCase** for variable and function names (myVariable, fetchData).
* Use **PascalCase** for component names (MyComponent).
* Use **single quotes** for strings ('example'), except when using template literals.
* Always **end statements with semicolons (;)** to avoid potential issues.
* Use **descriptive variable names** that clearly state their purpose.

## **2. React Component Structure**

* Use **functional components** with hooks instead of class components.
* **Separate concerns:** Keep component logic, UI, and styles modular.

## **3. Firebase Best Practices**

* Store Firebase config in .env files and **never commit sensitive keys**.

## **4. Styling and UI Best Practices**

* Use **Material UI** as the primary UI framework.
* Avoid mixing different UI libraries to maintain consistency.
* Use **Material UI's styling system** (e.g., sx prop, makeStyles, styled-components).
* Follow Material UI's **theming guidelines** to ensure a uniform design.
* Prefer **flexbox or grid** for layout.

## **5. Git & Version Control**

* Use **feature branches** for development (feature/authentication, feature/dashboard).
* Write **clear and concise commit messages**.
* **Review pull requests** before merging.

## **6. Testing**

* Perform extensive regression testing to ensure app reliability.
* Use **Jest & React Testing Library** for unit and integration testing.
* Test **critical components and API interactions**.