**App Architecture**

Prepare for

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# **Architecture Decision Record**

## **1. Development Framework**

* **Decision:** Use **React Native** as the development framework.
* **Context:** The team has prior experience with JavaScript and React, allowing for faster development. React Native enables building cross-platform applications, which is beneficial if we later decide to support iOS.
* **Consequences:** This choice will speed up development and provide a smoother user experience, but the team will need to ensure they stay updated on best practices and libraries specific to React Native.

## **2. Navigation Strategy**

* **Decision:** Implement a **tab navigation** strategy.
* **Context:** The app will have multiple core features (task creation, reminders, completed tasks), making tab navigation intuitive for users to switch between different sections easily.
* **Consequences:** This approach will enhance user experience by providing quick access to features, but we need to ensure the design remains clean and does not overwhelm users with too many tabs.

## **3. Hardware**

* **Decision:** Utilize the **notification system** of the device for reminders.
* **Context:** Since the app is focused on task management and reminders, leveraging the device's notification system will ensure students receive timely alerts about their tasks and assessments.
* **Consequences:** Using device notifications will enhance user engagement with the app, but we must ensure that notifications are not intrusive and are customizable to prevent overwhelming users.

## **4. Database Storage**

* **Decision:** Use a **remote database** (MySQL) for task and reminder storage.
* **Context:** A remote database allows users to access their tasks from multiple devices and ensures data is backed up and synchronized. This is crucial for students who might switch devices.
* **Consequences:** This choice provides flexibility and convenience for users, but it will require a stable internet connection for data access and raises considerations around data security and privacy that need to be addressed.