

mid lab .SDA

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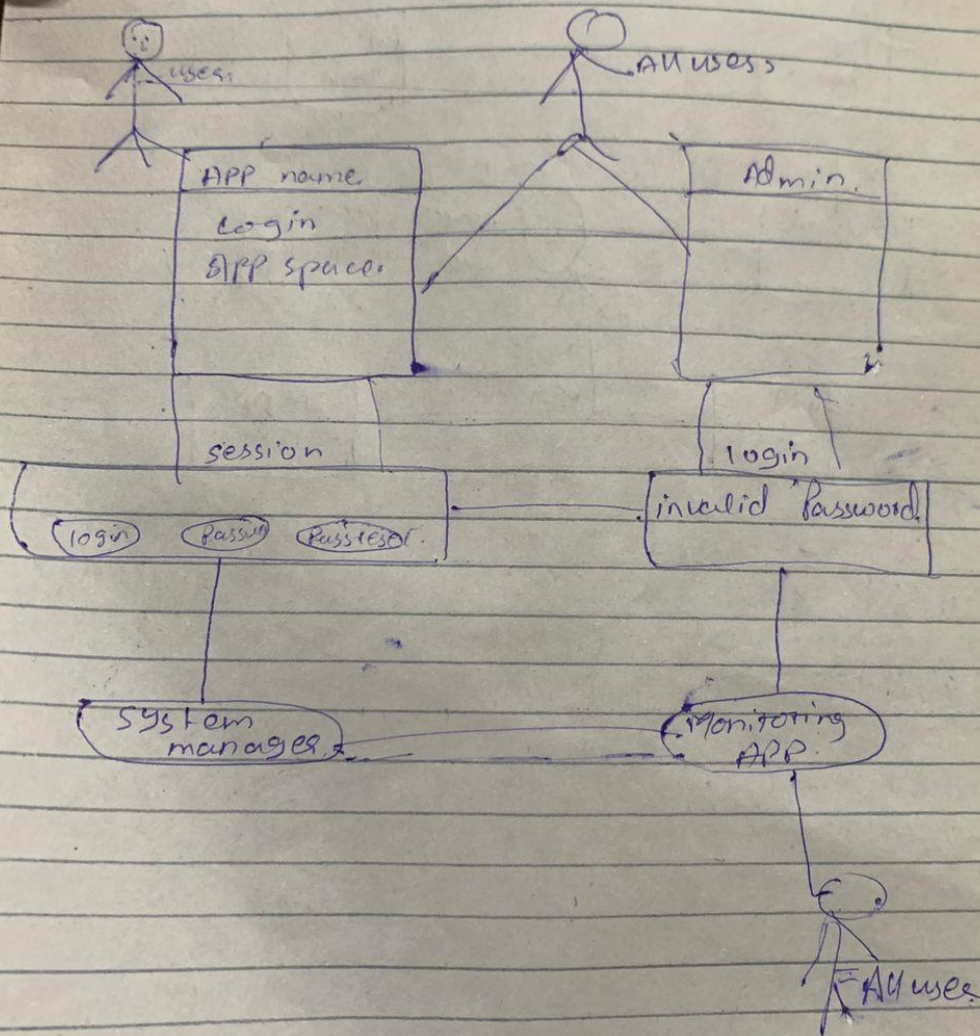
1. Draw a USE CASE Diagram on the Page with your Name and Registration number on it

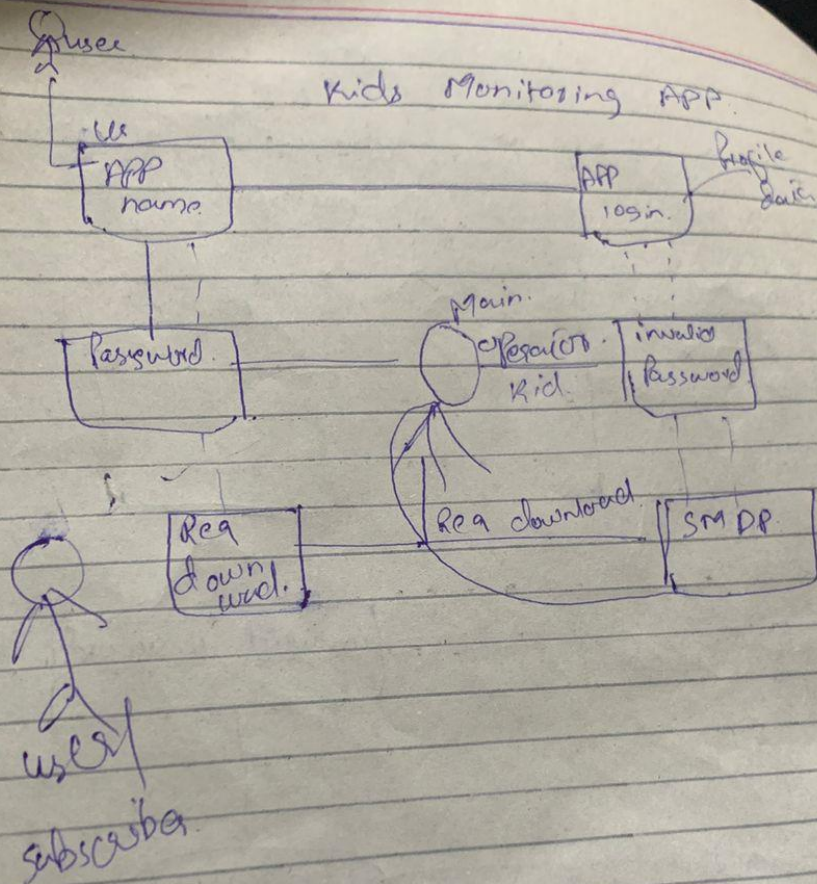
Use case diagrams:

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Use Case Diagram Kids monitoring APP.





1. Model-View-Controller (MVC) Pattern

- **Why:** This pattern separates the user interface (View), business logic (Controller), and data (Model), which makes the system modular and easier to maintain.
 - **Application:** The login screens (View), session handling (Controller), and user data (Model) can be handled separately.
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2. Single Responsibility Principle (SRP) – [SOLID Principle]

- **Why:** Each class or module should have only one reason to change.
 - **Application:** Separate classes for handling login, monitoring, session management, etc.
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3. Observer Pattern

- **Why:** Useful in monitoring apps where changes (e.g., kid activity updates) need to be observed and acted upon.
- **Application:** Admin can be notified in real-time if any suspicious activity is detected.