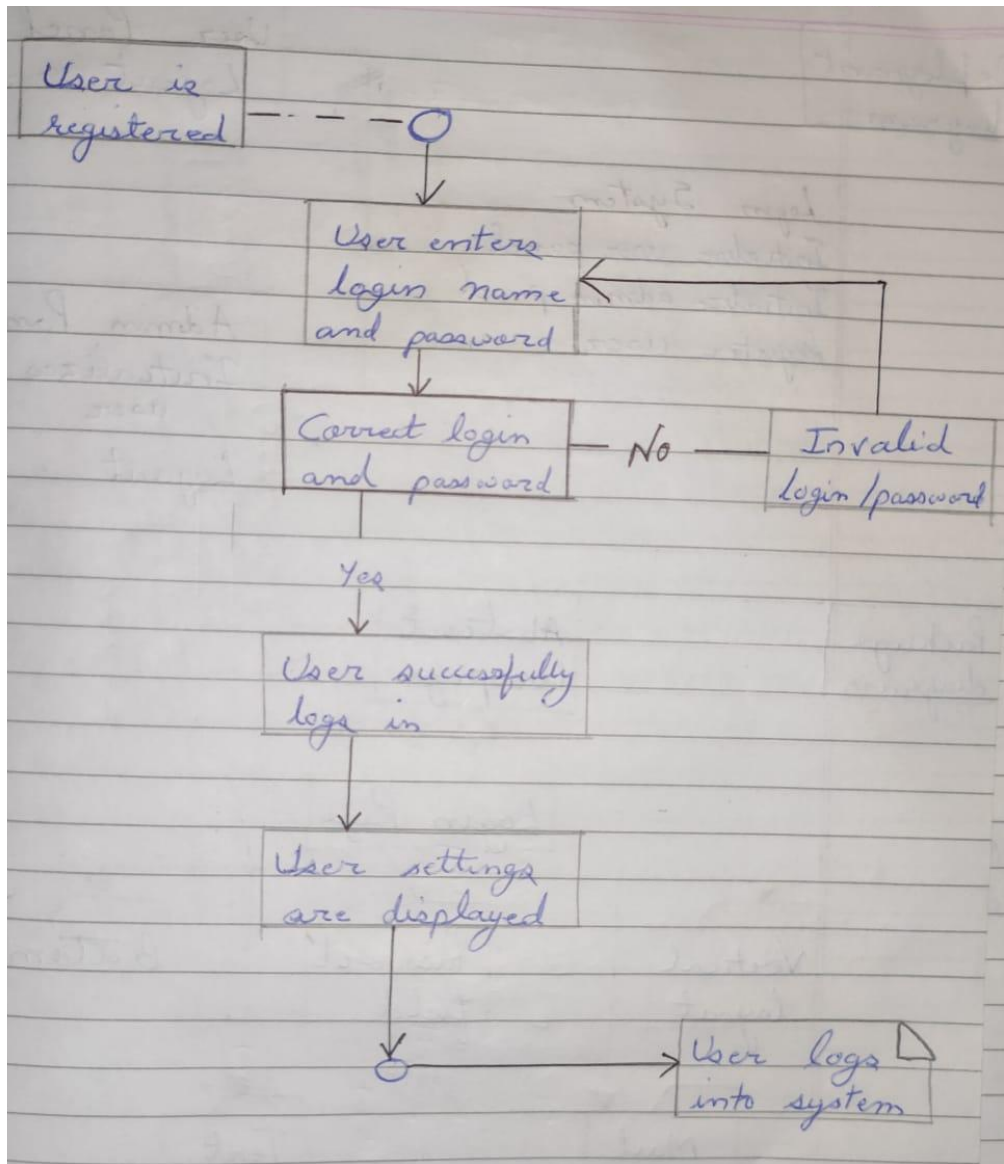# UML Behavioral Modeling
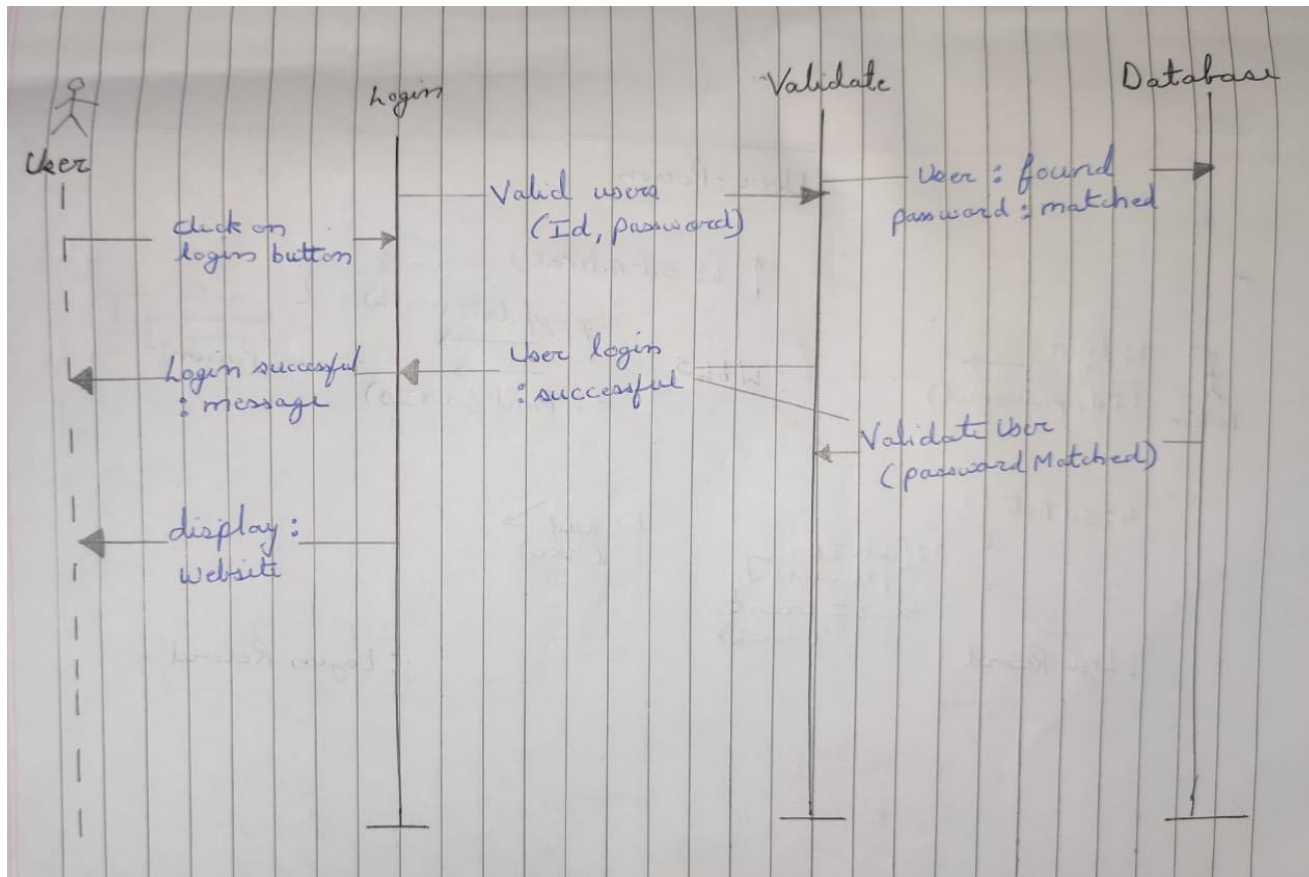
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- **Activity diagram:** It represents how a system behaves. The control flow from a start point to a completion point is depicted in an activity diagram, which shows the numerous decision routes that exist while the activity is being performed.
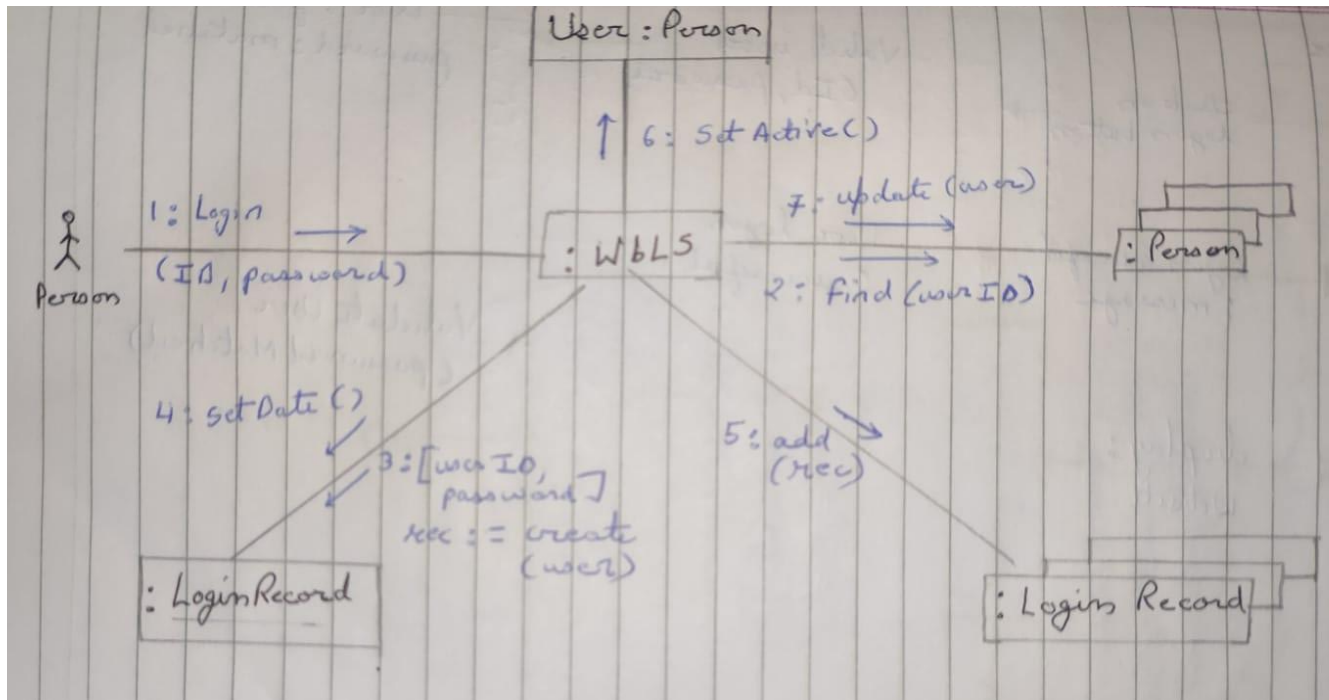
- **Interaction diagrams**

  a) **Sequence Diagram:** A sequence diagram is a sort of interaction diagram that shows how a set of items interacts and in what order.

Sequence diagram showing interactions between User, Login, Validate, and Database objects:
- User → Login: click on login button
- Login → Validate: Valid users (Id, Password)
- Validate → Database: User: found password: matched
- Database → Validate: Validate User (password Matched)
- Validate → Login: User login: successful
- Login → User: Login successful: message
- User: display: Website

b) **Collaboration Diagram:** In the Unified Modeling Language, it depicts the links and interactions between software objects (UML). These diagrams may be used to depict the dynamic behaviour of a certain use case and clarify each object's purpose.

- **Use case diagram:** A use case diagram is a visual representation of how a user could interact with technology. A use case diagram depicts the system's numerous use cases and different sorts of users and is frequently supplemented by additional diagrams.

Service

Custom
Login

<< include >>

Authenticate

<< include >>

<< extend >>

Admin

Register

Save user login credentials

Stay signed in

<< include >>

Forgot password

<< include >>

<< include >>

Authentication

<< include >>

Session management

<< include >>

Login

User