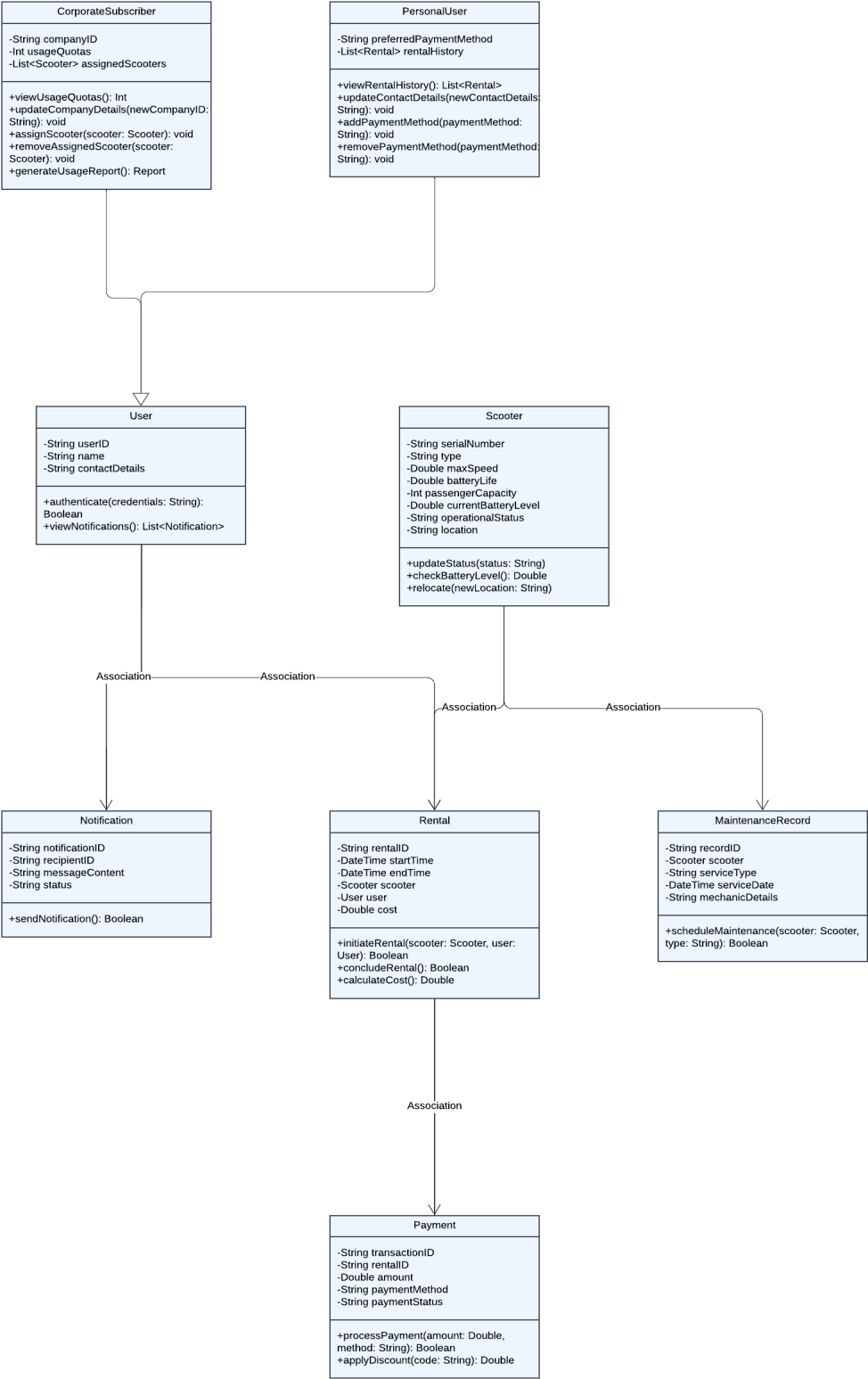
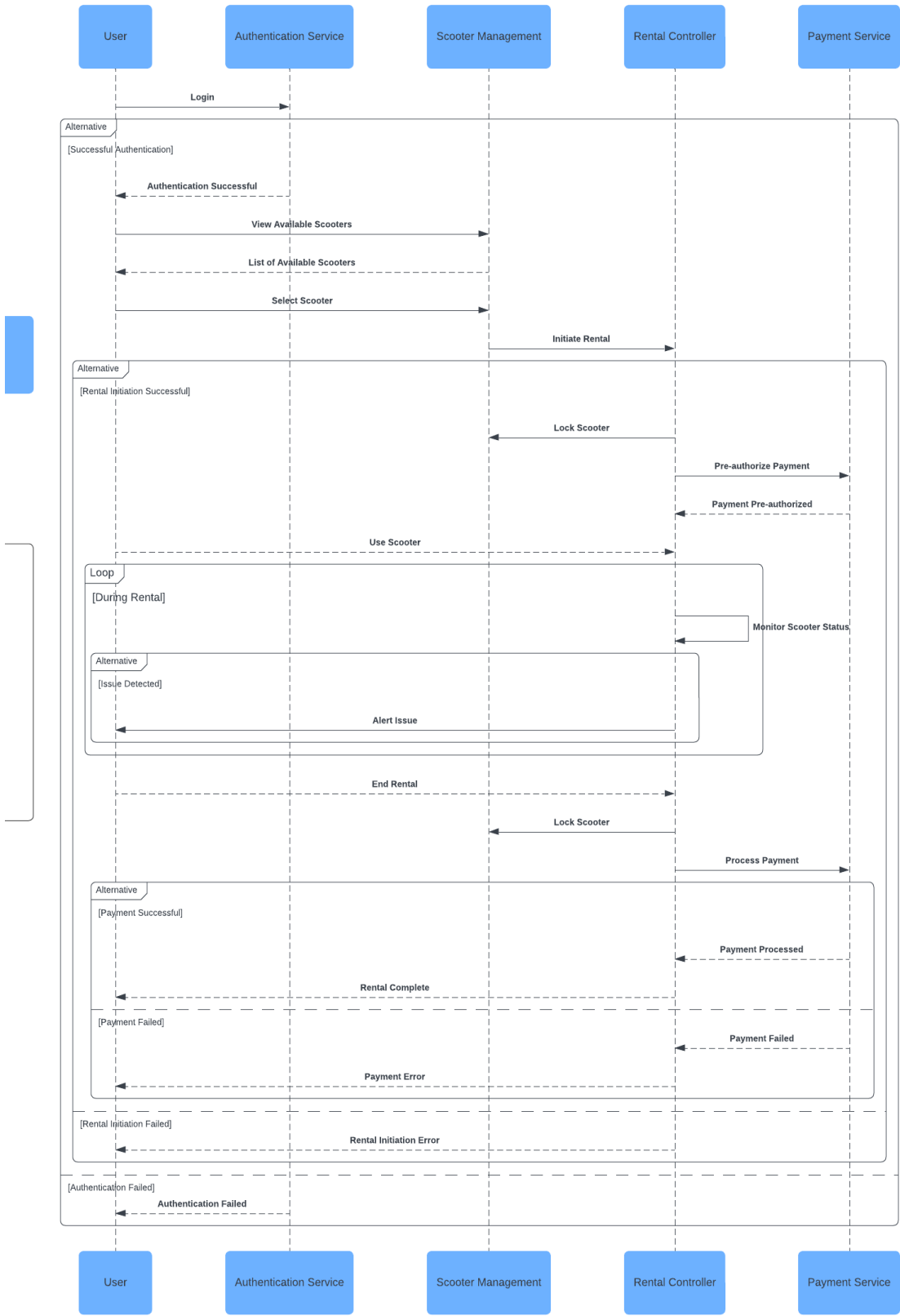


## System Development Assignment

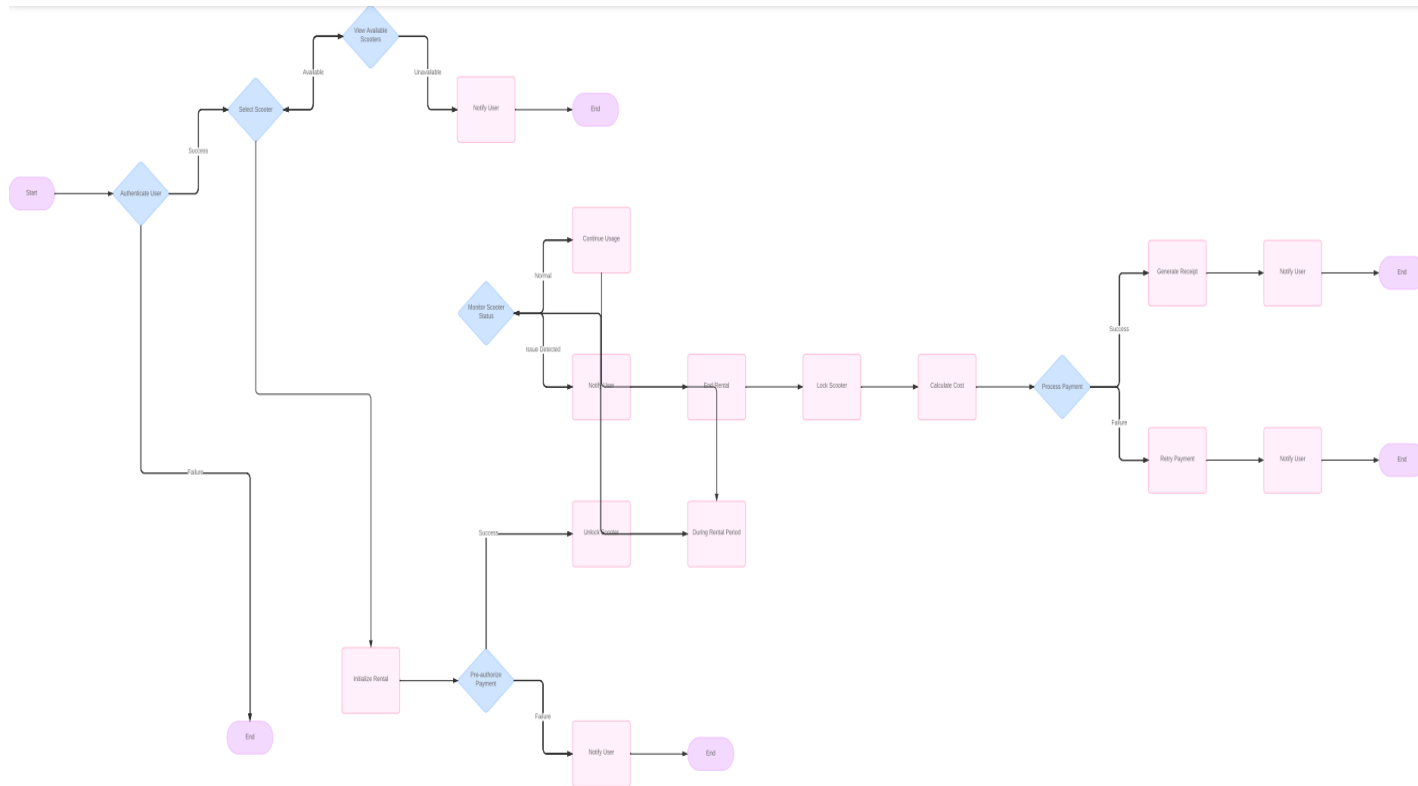
Class Diagram:



Sequence Diagram:



## Activity Diagram:



## Additional Notes

1. **Class Diagram:** I identified core entities like Scooter, User, Rental, Payment, Maintenance Record, and Notification to cover different aspects of the ESRS. I ensured to include attributes and methods relevant to their roles in the system.
2. **Sequence Diagram:** The sequence diagram captures the interactions between the user and the system components during a rental. It includes decision points and alternative paths for different outcomes, such as login failure and payment issues.
3. **Activity Diagram:** The activity diagram depicts the flow of activities and decisions from authentication to rental conclusion, including monitoring and handling exceptions like payment failures and scooter malfunctions.