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I've created a comprehensive specification for the Login module in the Student Feedback System, including both a detailed Use Case description and a System Sequence Diagram (SSD).and also make usecase in uml diagram form
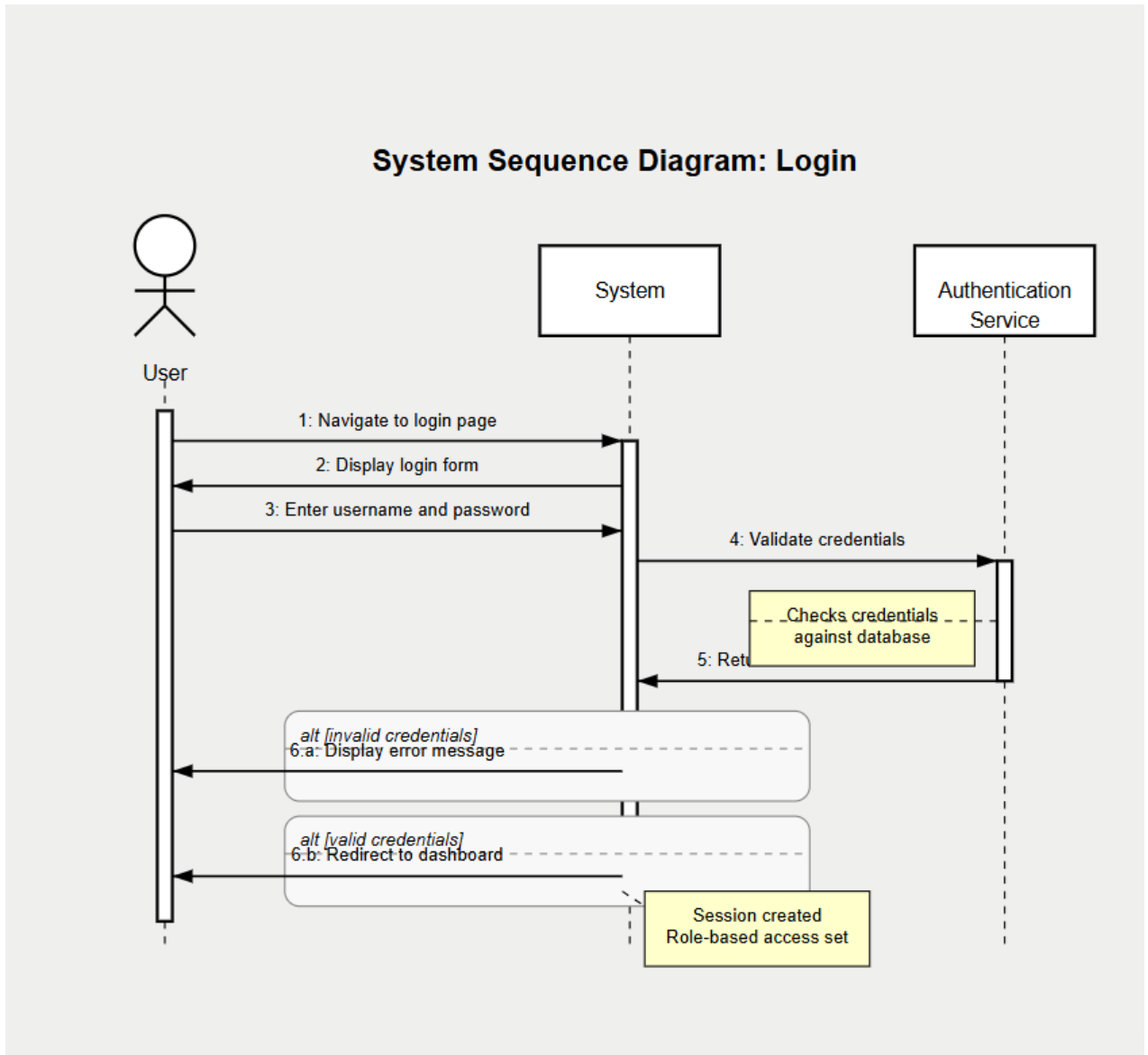
Note UML USECASE DIAGRAM IS AT LAST OF THIS DOCUMENT

Use Case: login

Use Case Name	Login
Actor	Student
Description	This use case enables users to authenticate themselves to access the Student Feedback System and its functionalities based on their roles.
Trigger	The user navigates to the login page of the system.
Preconditions	- The user has a registered account in the system. The system is operational and accessible.
Postconditions	The user is authenticated and logged into the system. The user is presented with the appropriate dashboard based on their role.
Basic Flow	1. The use case begins when the User navigates to the login page 2. The system displays the login form with fields for username and password 3. The User enters their username and password 4. The User clicks the "Login" button 5. The system validates the entered credentials 6. The system authenticates the User 7. The system retrieves the User's role and permissions 8. The system redirects the User to their appropriate dashboard based on their role 9. The use case ends
Alternative Flows	Invalid Credentiala At step 5 of the Basic Flow, if the system determines the credentials are invalid:

	1. The system displays an "Invalid username or password" error message 2. The system allows the User to re-enter their credentials Forgotten Password • The User clicks on the "Forgot Password" link • The system displays the password recovery form • The User enters their registered email address • The system sends a password reset link to the provided email • The use case ends Account Locked At step 5 of the Basic Flow, if the system determines the account is locked: 1. The system displays an "Account locked" message with instructions to contact an administrator 2. The use case ends First-time Login • The system prompts the User to change their temporary password • The User enters and confirms a new password • The system updates the User's password • The use case continues from step 7 of the Basic Flow
Special Requirements	• The system must encrypt all password data • The system must maintain an audit log of login attempts • The system must lock accounts after 5 consecutive failed login attempts • The login process should complete within 3 seconds under normal system load
Business Rules	• Users must have a valid account to access the system • Passwords must meet the organization's password complexity requirements • System administrators can reset user passwords • Sessions should automatically expire after 30 minutes of inactivity

SSD FOR STUDENT FEEDBACK SYSTEM

System Sequence Diagram: Login

The diagram includes activation bars showing when each component is active and notes explaining key operations like credential verification and session creation.

UML USE CASE DIAGRAM