

Haj Wali - Use Cases Documentation

Member: Haj Wali

Assigned Use Cases: Login, Register, Role-based Dashboard

UC-01: User Registration

Attribute	Description
Use Case ID	UC-01
Use Case Name	User Registration
Actor	Student, Supervisor, Admin
Description	New users register in the system with their credentials and role-specific information
Preconditions	User has valid university credentials, System is operational
Post conditions	User account is created, User can login to system, User profile is initialized
Priority	High
Frequency of Use	Once per user
Normal Flow	<ol style="list-style-type: none">1. User navigates to registration page2. User selects role (Student/Supervisor/Admin)3. User enters personal details (Name, Email, Phone)4. User enters university credentials (Employee ID/Roll Number)5. System validates credentials with university database6. User creates password following security policy7. User confirms password8. System validates all input fields9. System creates user account10. System displays success message
Alternative Flows	A1: Invalid Credentials <ul style="list-style-type: none">- At step 5, if credentials are invalid- System displays error message- User corrects credentials- Resume at step 5
Exception Flows	E1: System Database Error <ul style="list-style-type: none">- System displays "Registration temporarily unavailable"- User tries again later E2: Duplicate Registration <ul style="list-style-type: none">- System displays "Account already exists"

Attribute	Description
	- User redirected to login page
Business Rules	BR-01: Students must provide valid roll number BR-02: Faculty must provide valid employee ID

UC-02: User Login

Attribute	Description
Use Case ID	UC-02
Use Case Name	User Login
Actor	Student, Supervisor, Admin
Description	Registered users authenticate themselves to access the system
Preconditions	User has registered account, Account is activated, System is operational
Postconditions	User is authenticated, Session is created, User redirected to role-based dashboard
Priority	High
Frequency of Use	Multiple times per day
Normal Flow	<ol style="list-style-type: none"> 1. User navigates to login page 2. User enters email/username 3. User enters password 4. User clicks login button 5. System validates credentials 7. System creates user session 8. System identifies user role 9. System redirects to appropriate dashboard 10. System logs login activity
Alternative Flows	<p>A1: Invalid Credentials</p> <ul style="list-style-type: none"> - At step 5, if credentials are wrong- System displays "Invalid credentials" message - User re-enters credentials - Resume at step 5
Exception Flows	<p>E1: Session Timeout</p> <ul style="list-style-type: none"> - If previous session exists and expired - System clears old session - Resume normal flow
Business Rules	

Attribute	Description
Special Requirements	BR-02: Session timeout after 30 minutes inactivity
	BR-03: Concurrent sessions not allowed
	BR-04: Login activity must be logged
	SR-01: Response time < 2 seconds
	SR-02: SSL encryption mandatory

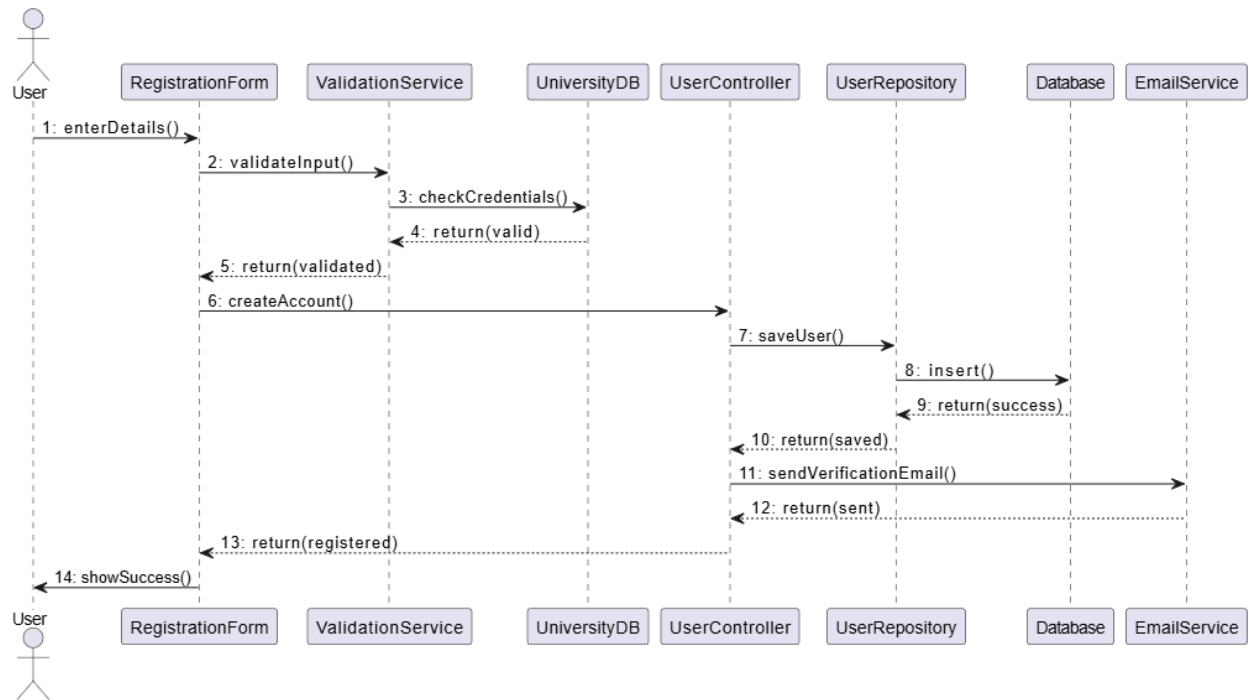
UC-03: Role-based Dashboard

Attribute	Description
Use Case ID	UC-03
Use Case Name	Role-based Dashboard
Actor	Student, Supervisor, Admin
Description	System displays customized dashboard based on user's role with relevant functionalities and information
Preconditions	User is authenticated, User session is active, User role is identified
Post conditions	Dashboard is displayed, User can access role-specific features, Navigation menu is customized
Priority	High
Frequency of Use	Every login session
Normal Flow	<ol style="list-style-type: none"> 1. System identifies authenticated user's role 2. System retrieves user-specific data 3. System loads role-based dashboard template 4. System populates dashboard with relevant widgets 5. System displays navigation menu based on role 6. System shows pending tasks/notifications 7. System displays recent activities 8. System renders dashboard to user 9. User can navigate to specific functionalities
Alternative Flows	<p>A1: Student Dashboard</p> <ul style="list-style-type: none"> - Shows: Project status, supervisor info, deadlines - Navigation: Submit Proposal, Progress Reports, Meetings - Widgets: Timeline, Announcements, Resources <p>A2: Supervisor Dashboard</p> <ul style="list-style-type: none"> - Shows: Supervised projects, evaluation tasks

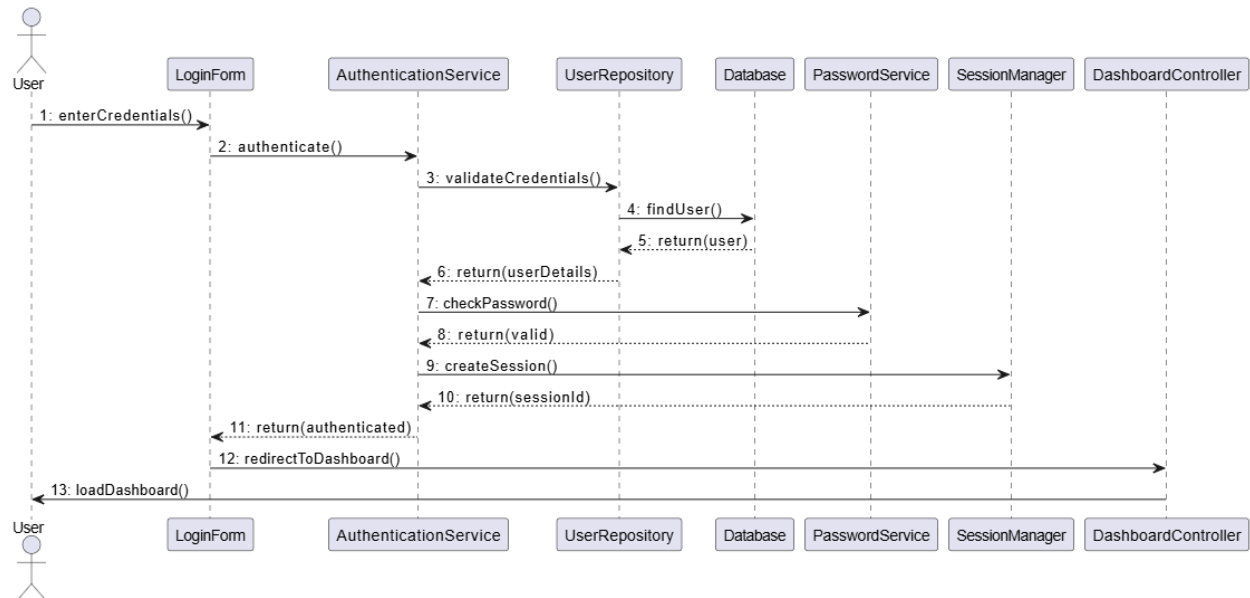
Attribute	Description
	<ul style="list-style-type: none"> - Navigation: Review Proposals, Evaluate Reports - Widgets: Student list, Meeting schedule
	A4: Admin Dashboard - Shows: System status, user statistics- Navigation: User Management, System Settings- Widgets: System health, Activity logs
	E1: Data Loading Error <ul style="list-style-type: none"> - System displays basic dashboard - Error message shown to user - Retry option provided
Exception Flows	E2: Role Permission Error <ul style="list-style-type: none"> - System displays access denied message - User contacted admin for role verification
Business Rules	BR-01: Dashboard content based on user role BR-02: Sensitive data only visible to authorized roles BR-03: Real-time notifications must be displayed BR-04: Dashboard must be responsive

Collaboration Diagrams

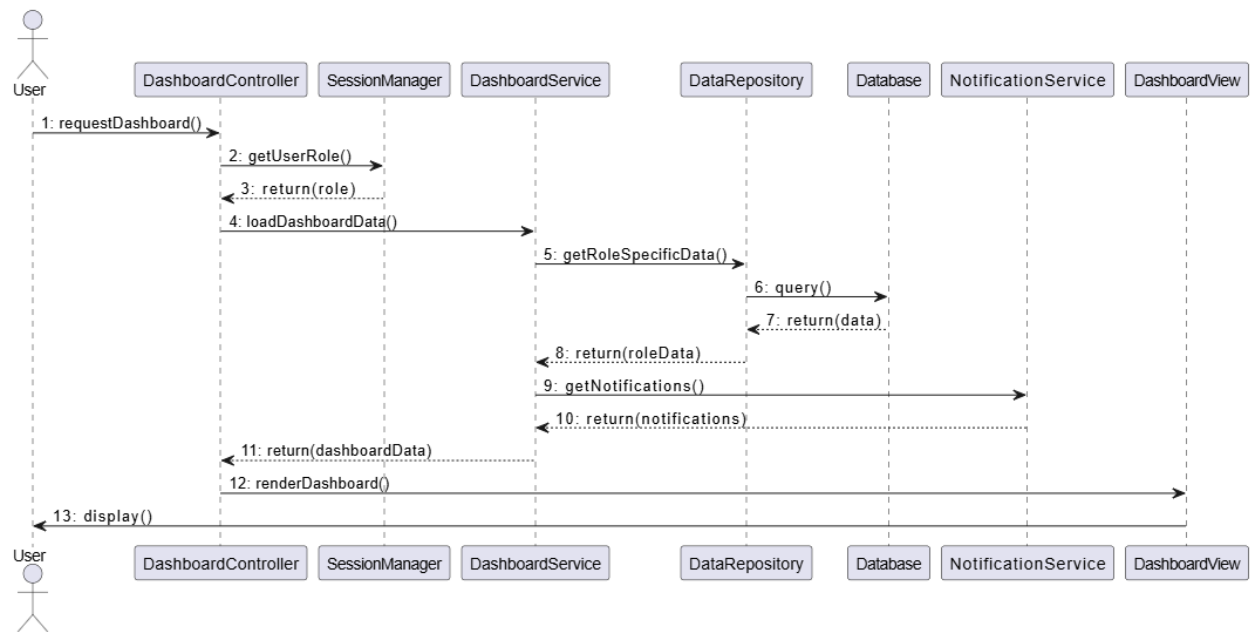
1. User Registration Collaboration Diagram



2. User Login Collaboration Diagram;

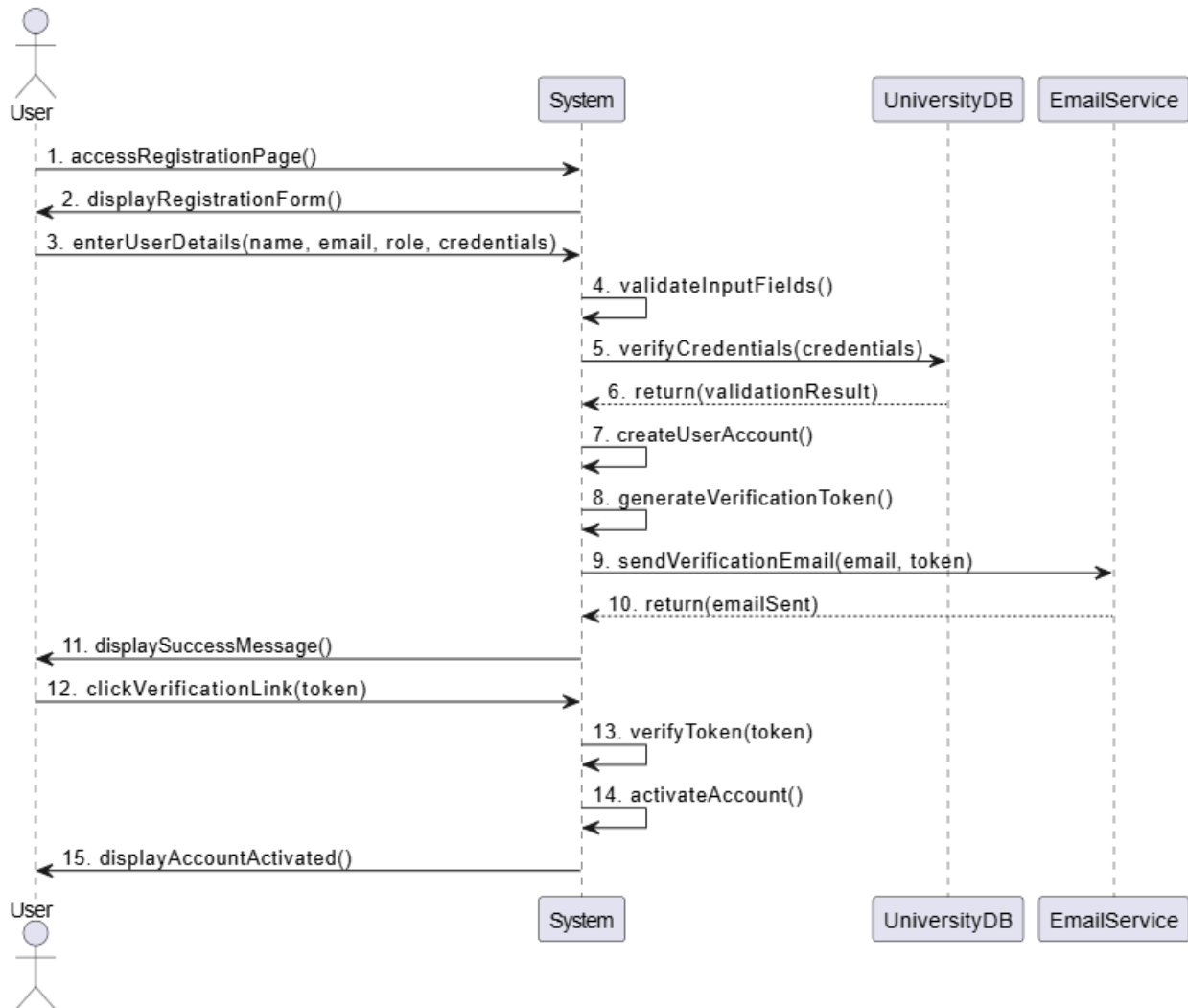


3. Role-based Dashboard Collaboration Diagram

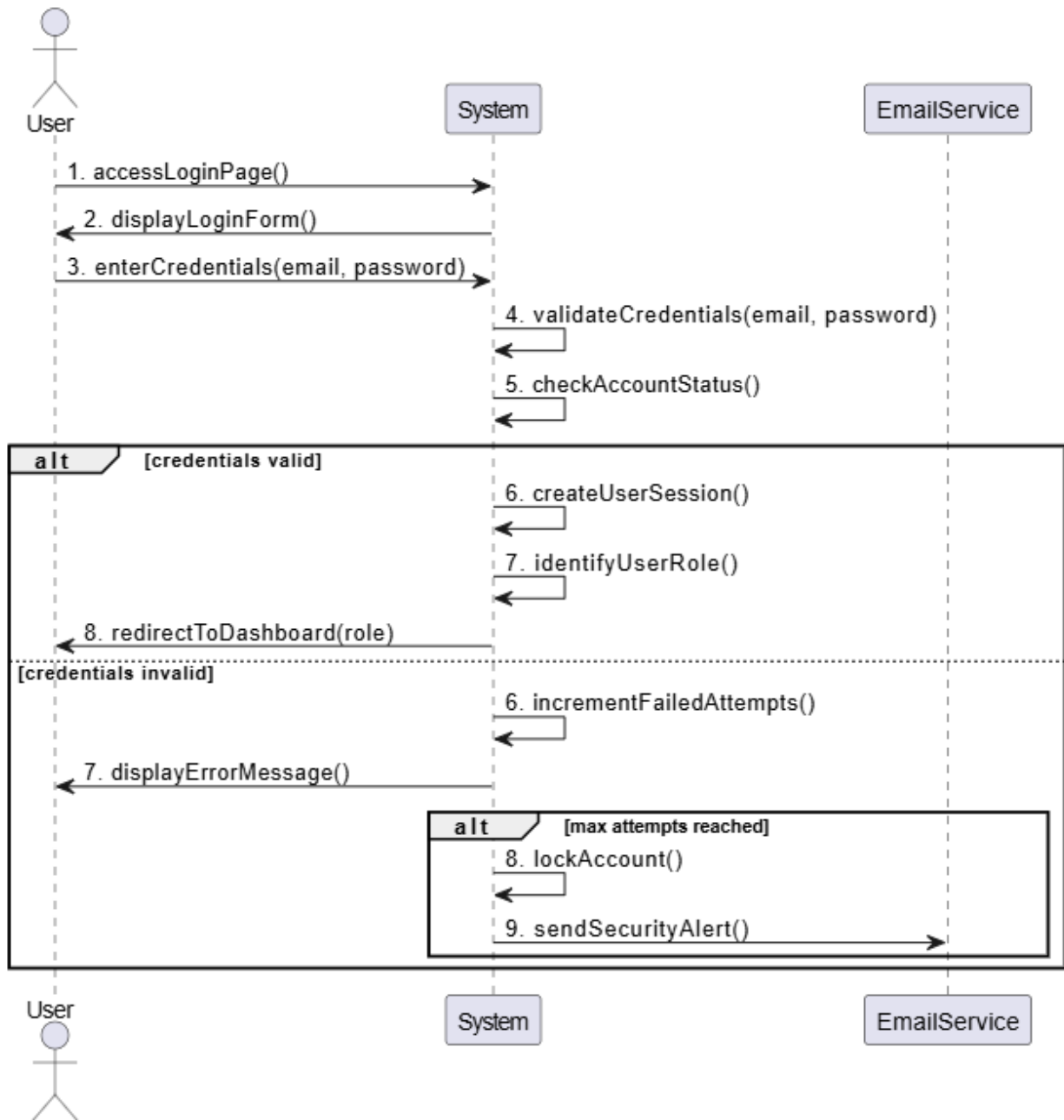


System Sequence Diagrams

1. User Registration System Sequence Diagram



2. User Login System Sequence Diagram;



3. Role-based Dashboard System Sequence Diagram;

