CS-322 Software Construction

Project Management System

PRESENTED BY

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MEMBER 2: M. Hamad (04072213023)

MEMBER 3: M. Ehtisham (04072213026)

Member 4: Tayyab Mehboob (040722213035)

SUPERVISED BY

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Use-Case Text Document Approval Signatures

Project Manager

_____   _____

          Signature   Date

M. Rayyan

Student, QAU Islamabad

Member 1

_____   _____

          Signature   Date

M. Hamad

Student, QAU Islamabad

Member 2

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          Signature   Date

M. Ehtisham

Student, QAU Islamabad

Member 2

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          Signature   Date

Tayyab Mehboob

Student, QAU Islamabad

Stakeholder

_____   _____

          Signature   Date

Dr. Onaiza Maqbool

Professor, QAU Islamabad

Change History

Version No.	Date	Modified By	Changes
1	16/03/2025	Muhammad Rayyan	Original
2	19/03/2025	M. Hammad	UC 03: Added another precondition SSD UC 03: Passes parameter i.e. id

Remarks

_____

_____

_____
Signature

Dr. Onaiza Maqbool

Professor, QAU Islamabad

Member Name	Use-case Text and System Sequence Diagram
Muhammad Rayyan	UC 01 & SSD 01
Muhammad Ehtisham	UC 02 & SSD 02
Tayyab Mehboob	UC 03 & SSD 03
Muhammad Hamad	UC 04 & SSD 04

Use-Case Text:

UC 1: Offer projects and assign supervisors

- **Primary Actor:**

  Administration

- **Precondition:**

  The system must be operational, and the admin must be logged in.

- **Main Success Scenario:**

  1. The administrator will enter the project details which include project title, project description etc.
  2. The administrator will assign supervisors to the projects.
  3. The system will save and publish the projects.

- **Alternate Scenario:**

  1.2 If project details are incomplete, then the prompts for missing information.

  1.3 If the supervisor is unavailable, the system prompts for another selection.

- **Postcondition:**

  Projects are available for students to register, and supervisors are assigned.

UC 2: Project Registration

- **Primary Actor:**

  Student

- **Precondition:**

  The students must have a valid user account.

- **Main Success Scenario:**

  1. Students browse the available projects.
  2. Student selects a project and submits a request for registration.
  3. The system confirms the registration.
  4. Student receives confirmation of registration.

- **Alternate Scenario**

  2.4 If the student changes their mind, they can cancel the registration.

- **Postcondition:**

  The project is registered under the student along with the supervisor.

UC 3: Upload work product:

- **Actor:**

  Student

- **Precondition:**

  Student must be logged into the system.

The student must have an approval project.

- **Main Success Scenario:**
    1. Students navigate their project page.
    2. Student selects "Upload work product".
    3. Student will attach his/her work and submit it.
    4. The system will store the work product and notify the supervisor.

- **Alternate Scenario:**
    3.3 If the file format is unsupported, an error message is shown.
    3.4 If the upload fails, the student is prompted to retry.

- **Postcondition:**
    The work product is saved in the system.

UC 4: Give Feedback:

- **Actor:**
    Supervisor

- **Precondition:**
    The student must have uploaded the work product.

- **Main Success Scenario:**
    1. The supervisor selects the student's submitted work.
    2. The supervisor enters the feedback comment.
    3. Supervisor submits the feedback.
    4. The system will save feedback.

- **Alternate Scenario:**
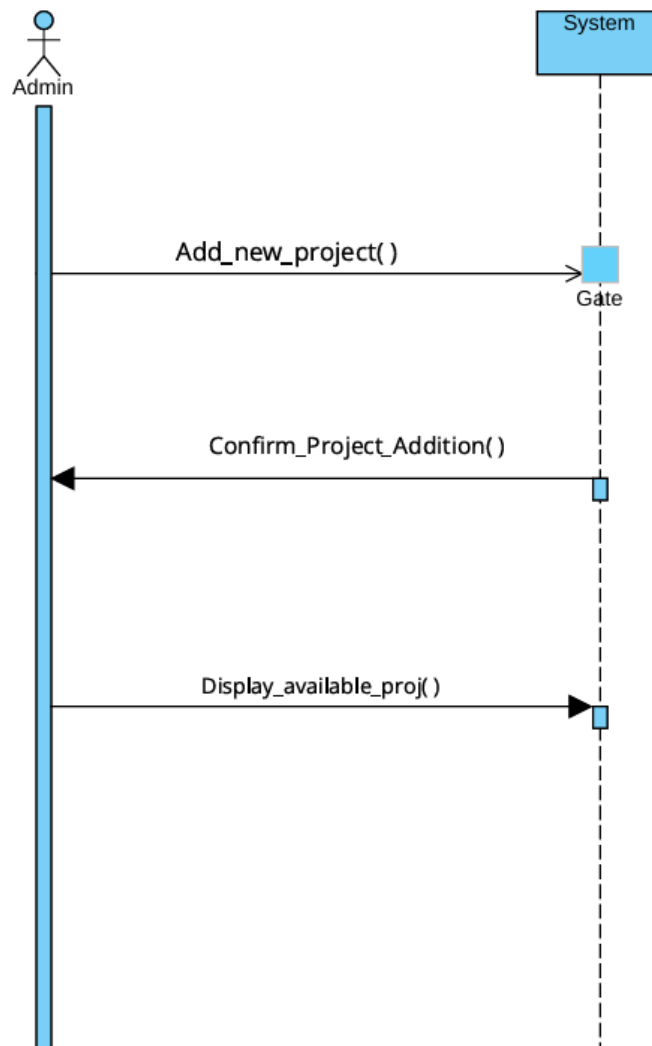   4.3 If feedback submission fails, the system prompts for retry.

4.4 If the supervisor wants to edit the feedback, they can update their comment.
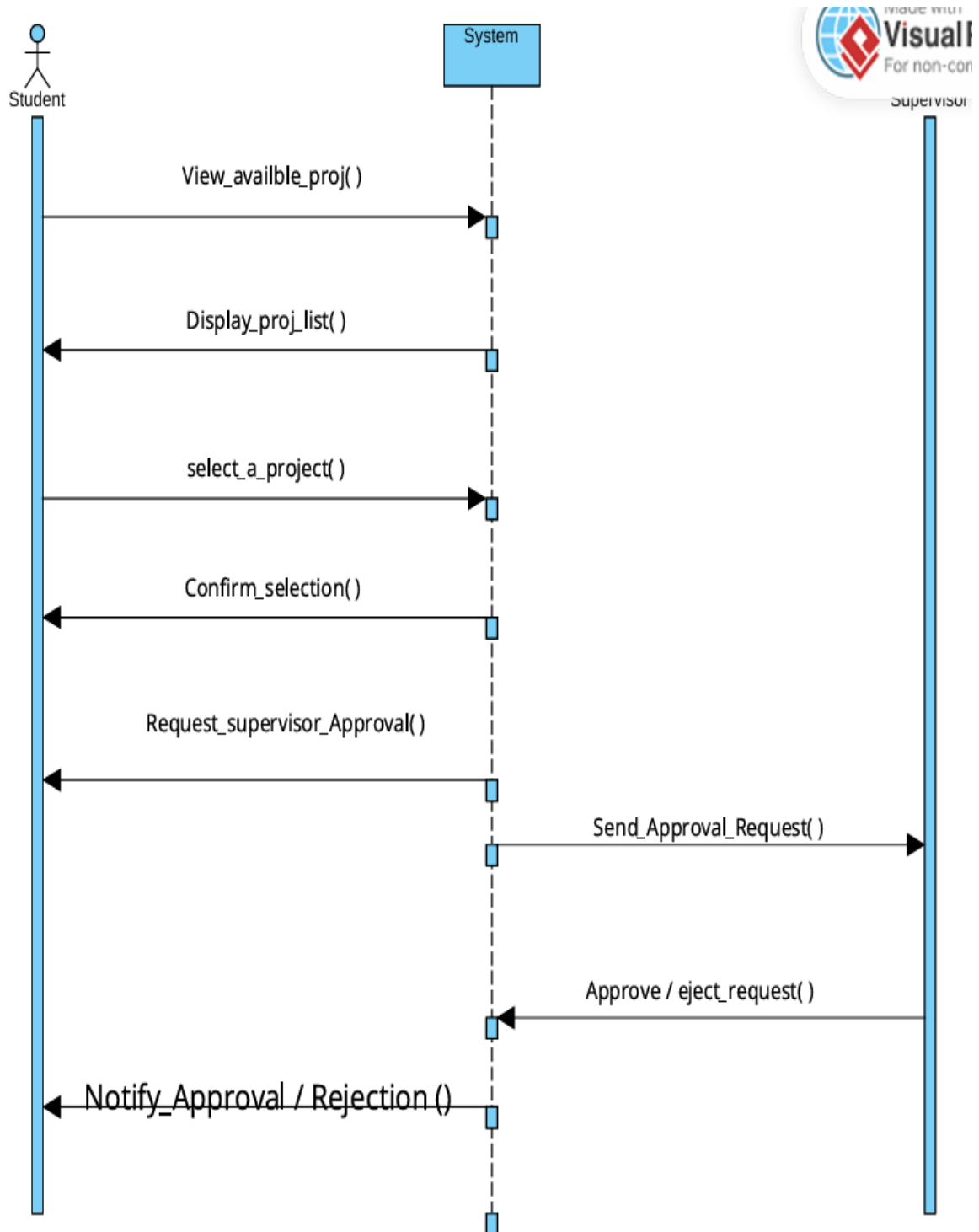
- **Postcondition:**

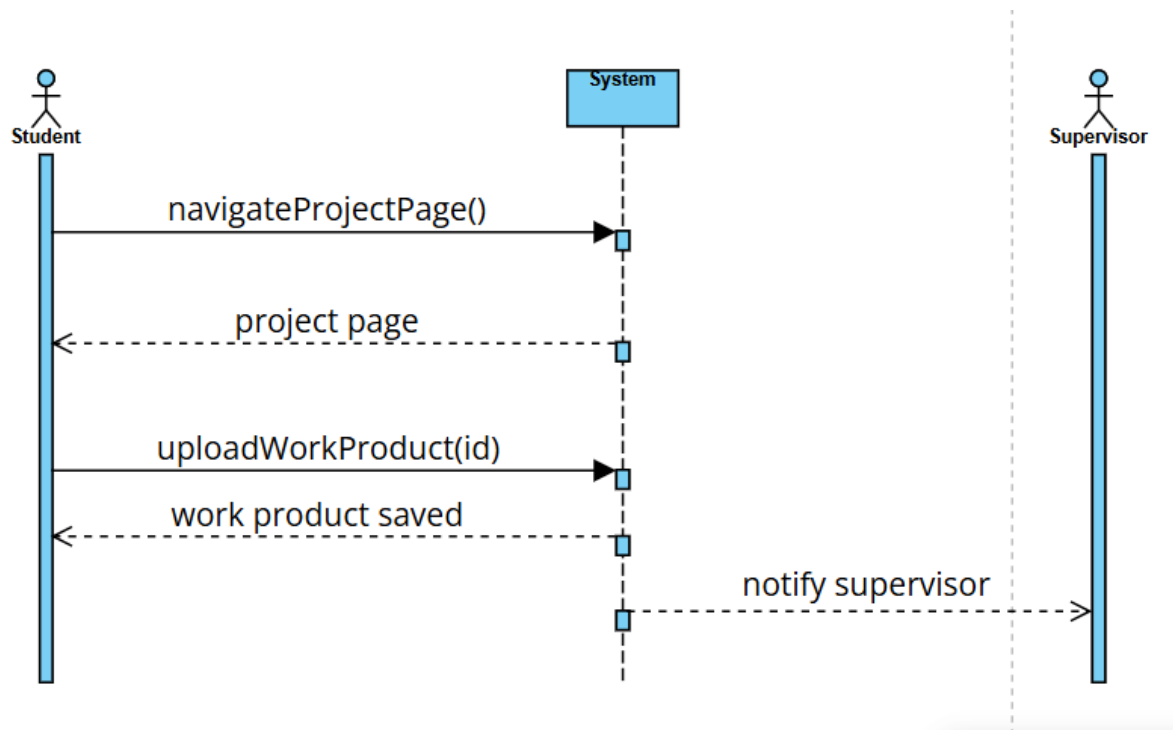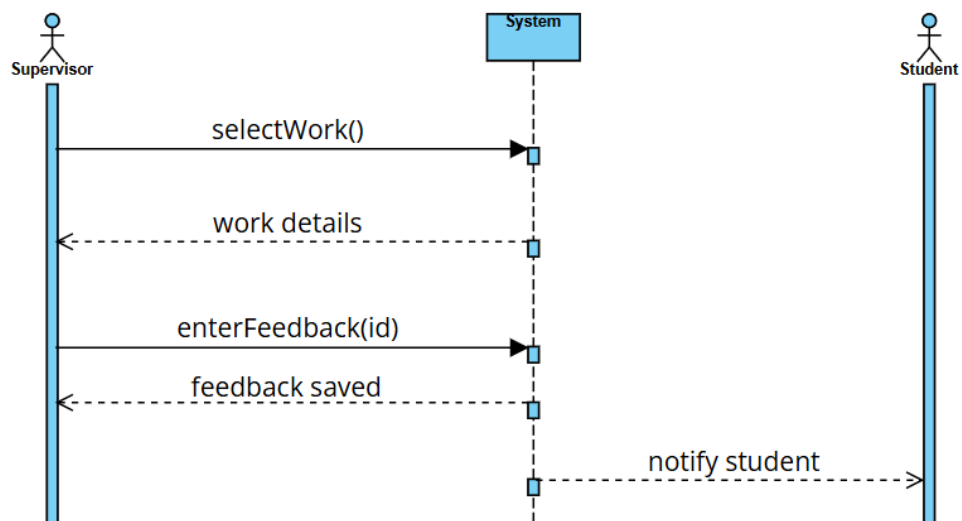 Feedback is saved and the student has been notified.

System Sequence Diagram

UC 1: Offer projects and assign supervisors

UC 2: Project Registration

UC 3: Upload work product:

UC 4: Give Feedback:

Domain Model:

Admin

Supervisor
-supervisorID   : int
-name   : string
-email   : string

Student
-studentID   : int
-studentName   : string
-email   : string
-registration date : string

Assign

Supervise

Provide

Feedback
-feedbackId   : int
-text   : string
-rating   : float
-date   : string

Upload

Assign

Register

WorkProduct
-workProductID   : int
-versionNumber   : int
-submissionDate   : string

Project
-projectID   : int
-title   : int
-Description   : string
-Status   : string
-RegistrationDeadline : string

Have

Have