



COMSATS University
Islamabad
Abbottabad Campus

THEORY ASSIGNMENT: 1

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Reg #: sp23-bse-044

Submitted to: sir Mukhtiyar Zamin

Course: SDA

Project: FYP management

Use Case: Submit Project Proposal

Use Case ID: UC-01

Use Case Name: Submit Project Proposal

Primary Actor: Student

Secondary Actor: Supervisor

Stakeholders and Interests:

- Student: Wants to submit a project proposal to initiate the final year project approval process.
- Supervisor: Wants to review and approve or reject submitted proposals.
- Coordinator/Admin: Wants to monitor all proposal submissions and supervisor feedback.

Preconditions:

1. The student must be logged into the FYP System.
2. The student must be eligible (final year, approved by admin/coordinator).
3. Supervisors are already assigned to students (automatically or manually).

Postconditions:

- Success Guarantee (Main Success Scenario):
The proposal is submitted, saved in the database, and forwarded to the assigned supervisor for review.
- Minimal Guarantee:
If the proposal is not submitted due to validation failure or server issues, the system provides proper error messages and retains the form data.

Trigger:

- The student selects the "Submit Proposal" option from their dashboard.

Main Success Scenario (Basic Flow):

1. Student logs in and accesses the "Submit Proposal" module.
2. System displays the proposal submission form.

3. Student fills out the form (Project Title, Objective, Problem Statement, Tools/Technologies, Team Members, etc.).
 4. System validates the input fields (e.g., required fields, file formats, size limits).
 5. Student submits the proposal.
 6. System saves the proposal data in the database.
 7. System automatically assigns or notifies the pre-assigned supervisor.
 8. Supervisor receives a notification/email about the new proposal.
 9. System shows a confirmation message to the student.
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Extensions (Alternate Flows):

3A. Invalid/Incomplete Proposal Form:

- 3A1. System detects empty required fields or invalid input.
- 3A2. System displays appropriate error messages.
- 3A3. Student corrects the input and resubmits.

5A. Server/Database Error During Submission:

- 5A1. Proposal submission fails due to technical error.
- 5A2. The system displays a "Submission failed, please try again later" message.
- 5A3. Students may retry after some time.

7A. Supervisor Not Assigned:

- 7A1. System checks for supervisor assignments and finds none.
 - 7A2. System prompts: "No supervisor assigned. Please contact the admin."
 - 7A3. Admin assigns a supervisor manually.
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Special Requirements:

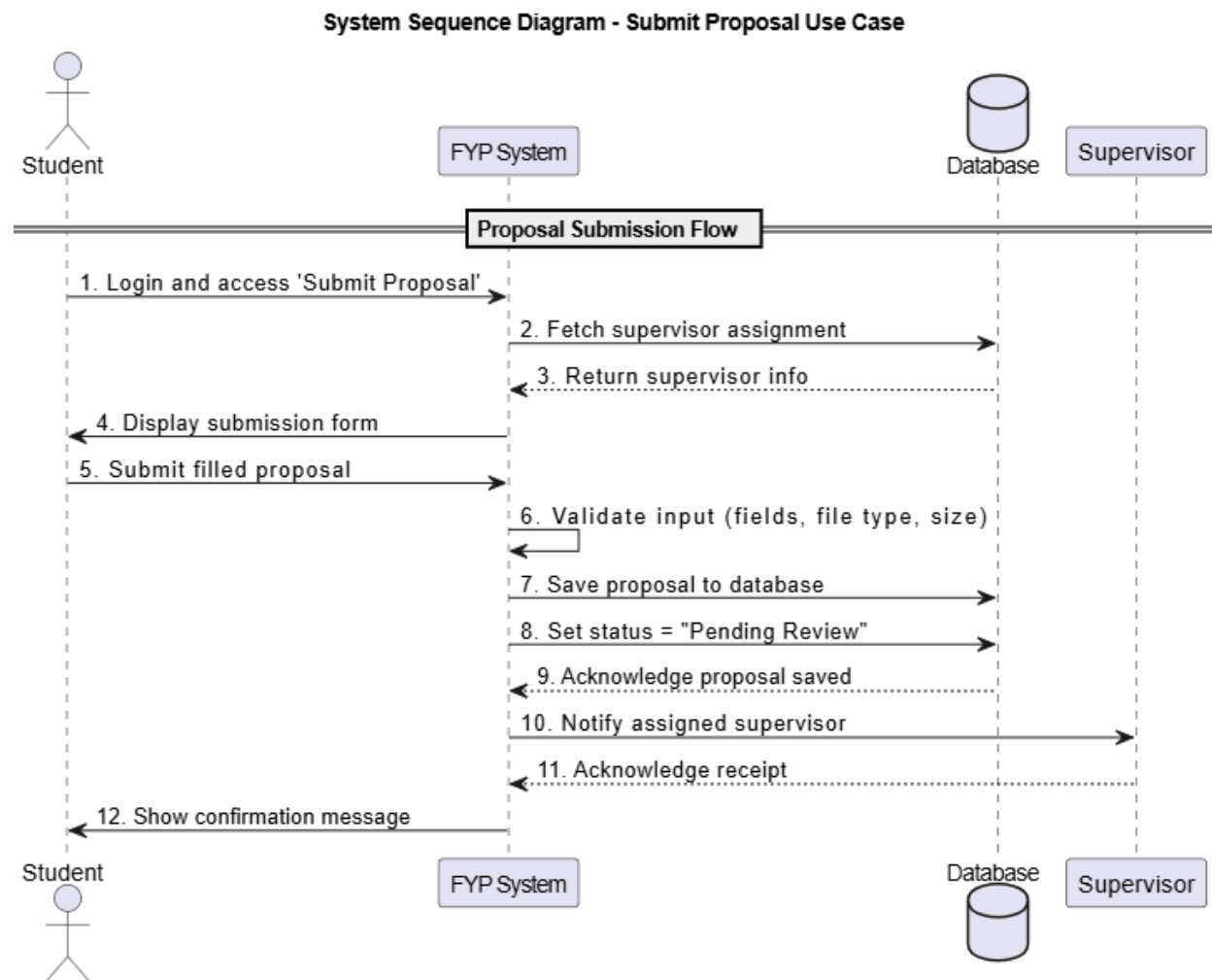
- The proposal file (if uploaded) must be in PDF format, max 10MB.
 - The form must support both solo and group proposals.
 - Email notifications should be sent to both student and supervisor after submission.
 - All submitted proposals must be time-stamped and logged.
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Business Rules:

- Each group can submit only one proposal.
- A student cannot be part of more than one active group.
- Supervisors can only review proposals assigned to them.

- Proposals must be submitted before the deadline.

System Sequence diagram:



Communication Diagram Using GRASP:

