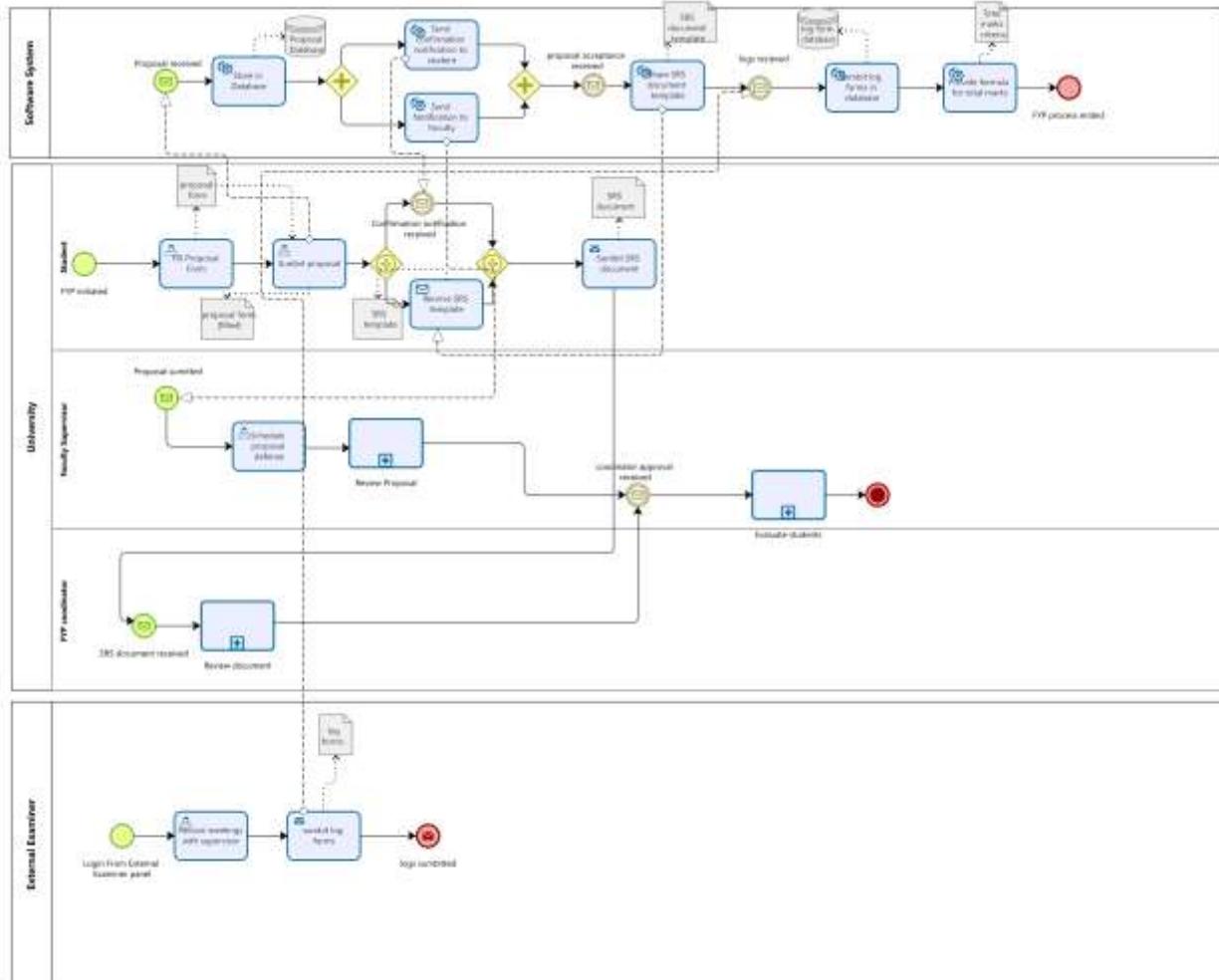


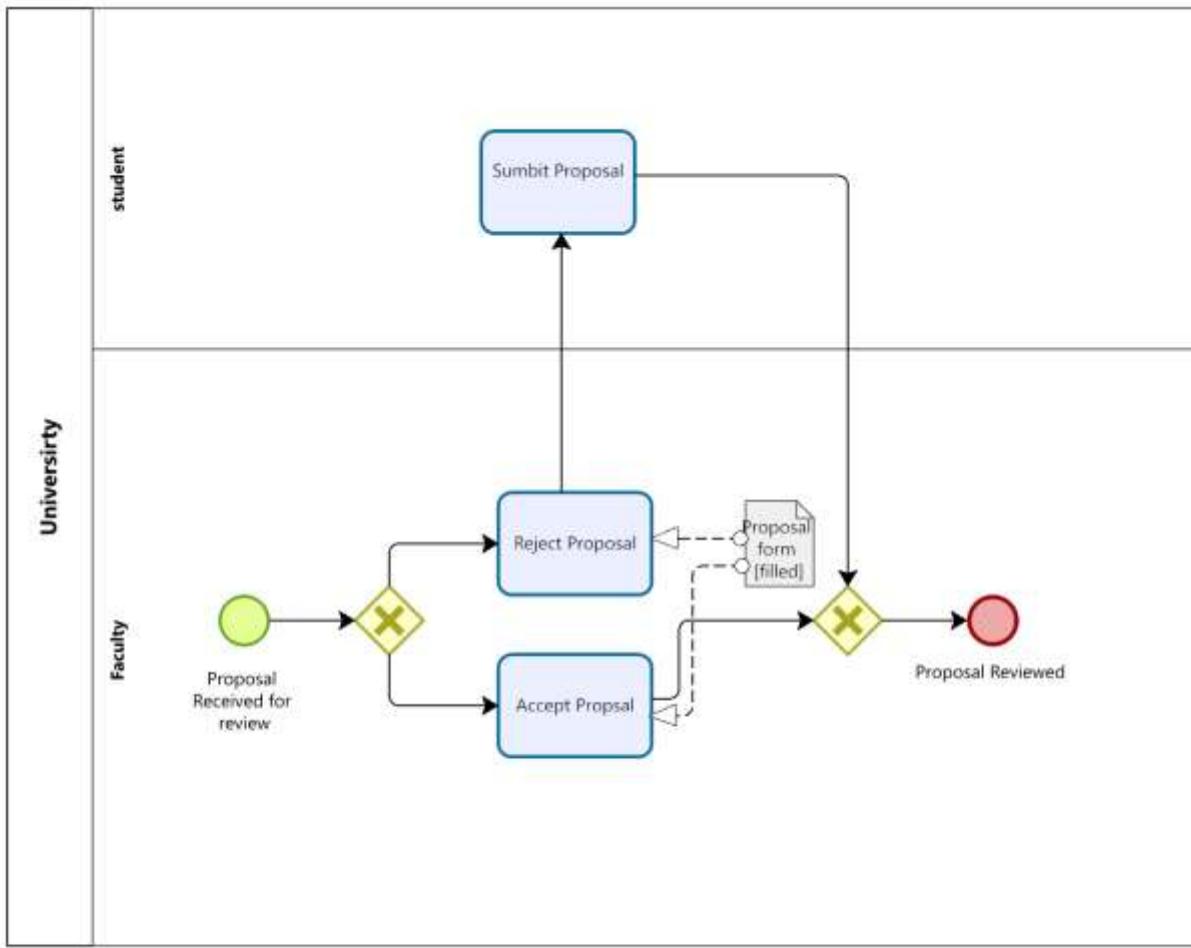
Business Process Automation
Assignment No: 1

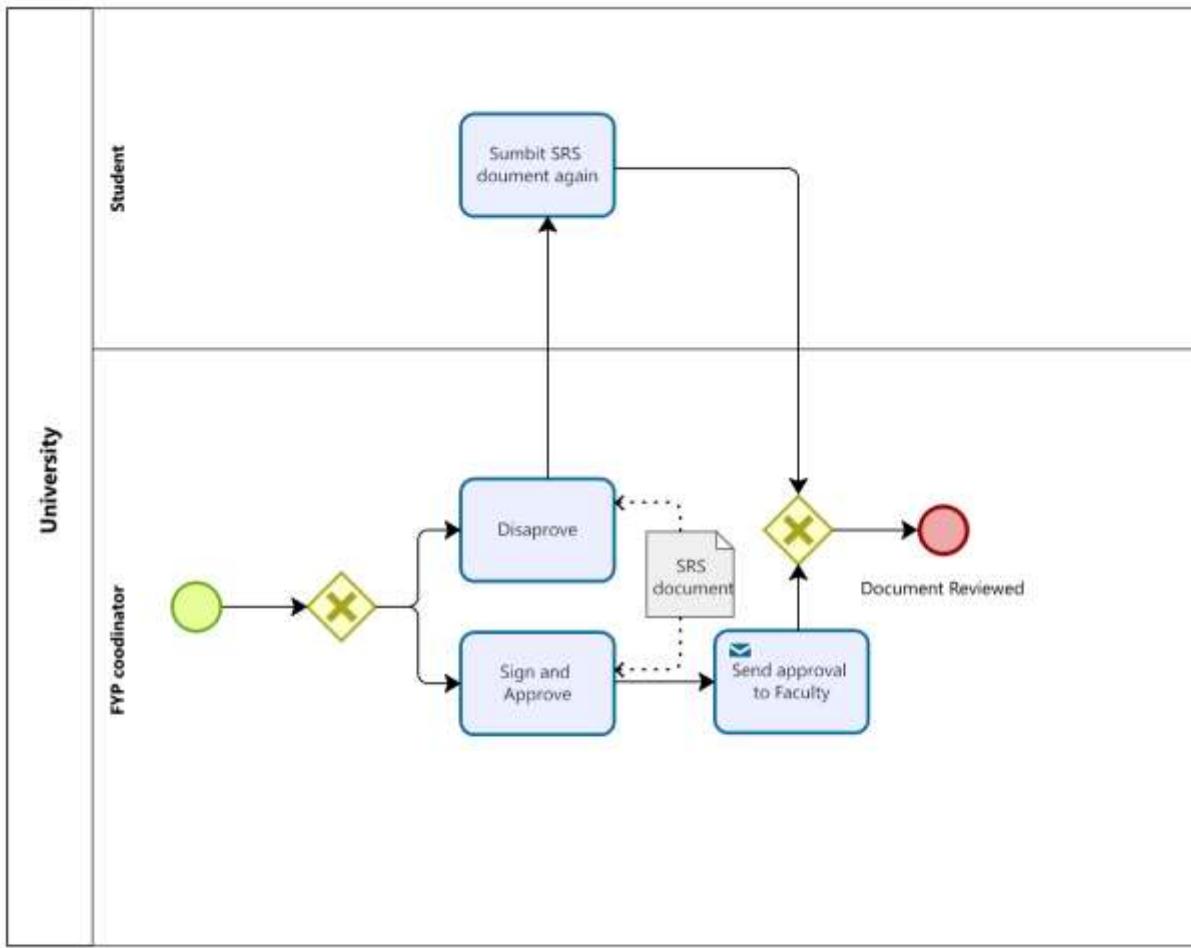


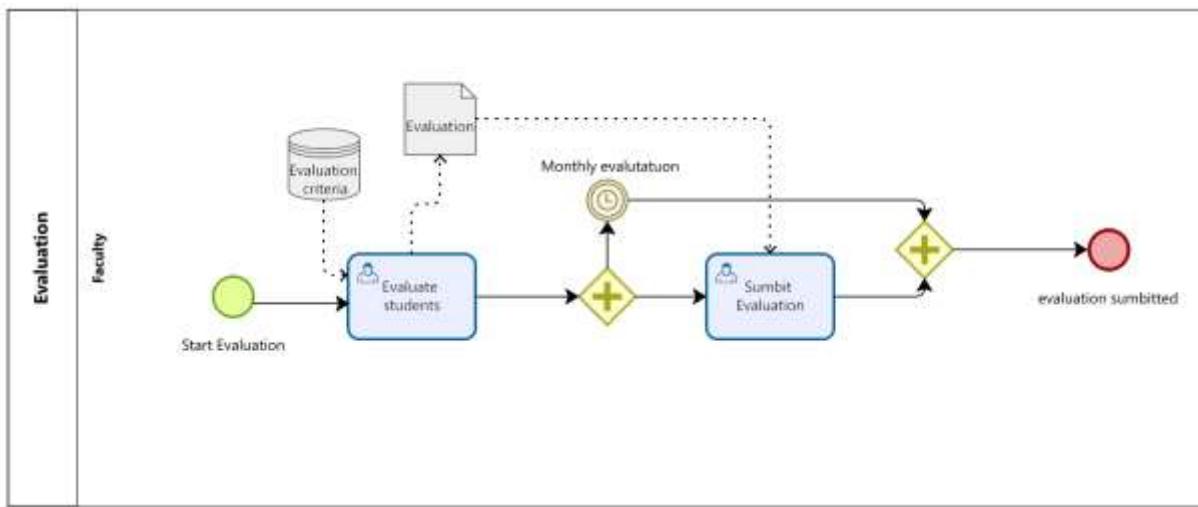
Haseeb Irfan (01-131232-029)

Huzaifa Imran (01-131232-033)









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1. PARTICIPATING DEPARTMENTS/ROLES (LANES/SWIMLANES)

The FYP business process involves the following five participating entities organized as swim lanes:

1.1 Software System

- **Role:** Central automation system managing proposals, notifications, documents, and evaluation data
- **Responsibilities:** Database management, automated notifications, document generation, and data logging

1.2 Student

- **Role:** FYP initiator and proposal submitter
- **Responsibilities:** Proposal submission, proposal defense, and revisions based on feedback

1.3 University Faculty Supervisor

- **Role:** Academic supervisor and proposal evaluator
- **Responsibilities:** Proposal review, scheduling defenses, accepting/rejecting proposals, and conducting evaluations

1.4 FYP Coordinator

- **Role:** Administrative oversight and document management
- **Responsibilities:** Document review, approval/rejection, and coordination between stakeholders

1.5 External Examiner

- **Role:** Independent evaluator from outside the university
 - **Responsibilities:** Attending evaluation meetings and submitting evaluation logs
-

2. SUB-PROCESSES

The FYP process consists of three major sub-processes:

2.1 Proposal Submission and Approval Sub-Process

- **Trigger:** FYP initiated by student
- **Activities:** Proposal form filling, submission, database storage, notifications, review, and acceptance/rejection
- **Outcome:** Approved proposal or rejection requiring revision

2.2 Proposal Defense Sub-Process

- **Trigger:** Proposal submission and coordinator approval
- **Activities:** Defense scheduling, SRS document preparation, review, and approval
- **Outcome:** Coordinator-approved SRS document

2.3 Evaluation Sub-Process

- **Trigger:** Coordinator approval received
 - **Activities:** Monthly evaluations, external examiner participation, log submissions, and final evaluation
 - **Outcome:** Completed FYP evaluation with total marks calculated
-

3. ACTIVITIES AND TASKS

3.1 Software System Activities

1. **Store in Database** - Store proposal information
2. **Send Confirmation Notification to Student** - Automated notification
3. **Send Notification to Faculty** - Alert supervisor about new proposal
4. **Store SRS document template** - Save SRS document
5. **Update log forms in database** - Record evaluation data
6. **Provide formula for total marks** - Calculate final scores
7. **Submit log forms** (External Examiner) - Store evaluation logs

3.2 Student Activities

1. **Fill Proposal Form** - Initial proposal creation
2. **Submit proposal** - Submit filled proposal form
3. **Schedule proposal defense** - Arrange defense presentation
4. **Evaluate** (participates in evaluation)

3.3 Faculty Supervisor Activities

1. **Review SRS template** - Check SRS document
2. **Reject Proposal** - Return proposal for revision
3. **Accept Proposal** - Approve proposal to proceed
4. **Reject Document** - Return SRS for revision
5. **Sign and approve** - Final SRS approval
6. **Evaluate** - Conduct evaluation sessions
7. **Submit Evaluation** - Submit evaluation results

3.4 FYP Coordinator Activities

1. **Review Document** - Review SRS submission
2. **Reject Document** - Send back for corrections
3. **Sign and approve** - Final approval of SRS
4. **Monthly evaluation** - Conduct periodic evaluations

3.5 External Examiner Activities

1. **Record meetings with supervisors** - Document evaluation meetings
 2. **Submit log forms** - Submit evaluation documentation
-

4. GATEWAYS (DECISION POINTS)

4.1 Exclusive Gateways (XOR - Diamond shaped)

1. **Proposal Acceptance Gateway** - After proposal received: Accept or Reject
2. **Proposal Defense Outcome Gateway** - After defense: Proposal form filled or rejected

3. **SRS Review Gateway** - After review: Accept or Reject SRS template
4. **Document Approval Gateway** - After coordinator review: Approve or Reject document
5. **Final Evaluation Gateway** - After evaluation: Complete or continue monthly evaluation

4.2 Parallel Gateways (AND)

- **Notification Split Gateway** - Simultaneously send notifications to student and faculty
 - **Evaluation Convergence Gateway** - Synchronize evaluation inputs before final submission
-

5. ARTIFACTS

5.1 Data Objects

1. **Proposal Database** - Repository for all FYP proposals
2. **SRS document template** - Standard Software Requirements Specification template
3. **SRS document** - Completed SRS submission
4. **Proposal form (filled)** - Completed proposal by student
5. **Log forms** - Evaluation tracking documents
6. **Log form database** - Repository for evaluation logs
7. **Evaluation criteria** - Assessment standards and rubrics
8. **Total marks criteria** - Final grade calculation parameters

5.2 Messages/Events

1. **Proposal received** (Start Event - Green circle)
2. **FYP initiated** (Start Event - Green circle)
3. **Proposal submitted** (Intermediate Event - Yellow circle)
4. **Confirmation notification received** (Message Event)
5. **SRS document received** (Intermediate Event)
6. **Proposal acceptance received** (Message Event)
7. **Coordinator approval received** (Message Event)
8. **Logs received** (Intermediate Event)
9. **Login from External Examiner panel** (Start Event)
10. **FYP process ended** (End Event - Red circle with thick border)
11. **Evaluation submitted** (End Event)
12. **Logs submitted** (End Event)