

IS 636: Structured System Analysis and Design

**Deliverable 2:**

Group Name: Digital Catalysts

**Team Members:** Kumbam, Sai Sri Harsha Martha, Harshith Nagabhyrava, Jaswanth Ram

Submission Date: 28th March 2024

**Use Case Diagram:**

**Casual Form:**

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| Use Case Name: External Course Registration for Cross-Departmental Students | ID: UC0001 | Priority: High |
| Actor: Student | | |
| Description: The use case describes the process for a student to register his interest in courses from other departments and obtain permission for the enrollment | | |
| Trigger: Student wants to enroll in a course from another department | | |
| Type (External/Temporal): External | | |
| Preconditions:   1. The student is logged into the course enrollment system. 2. The student has selected a course from another department. 3. The course has available seats 4. The student has filled out the necessary consent form | | |
| Normal Course:   1. The student selects the desired course from the list of courses available from another department 2. The student fills out the consent form and submits the request for enrollment 3. The course administrator from the particular department reviews the enrollment request. 4. If the student meets the criteria for enrollment (e.g., prerequisites, seats available, year of study), the administrator grants permission. 5. The student receives notification of the enrollment status. 6. If permission is granted, the student’s enrollment status is updated, and the respective student is officially enrolled in the course. 7. If permission is denied for not meeting the criteria then the student’s enrollment status is updated accordingly and the student is informed about the reason for denial to the course. 8. If the student does not meet the criteria then the administrator sends him the information via email or updates it in the system | | |
| Post Conditions:   1. The student is notified of the enrollment status. 2. If permission is granted, the student is enrolled in the course 3. If permission is denied, the student remains unenrolled in the course and notified via email with the reason for denial of that course | | |

**Fully Dressed:**

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| Use Case Name: Transparent Communication through Notifications | | ID: UC002 | | Priority: High | |
| Actor: System, Student | | | | | |
| Description: The use case outlines the process of transparently communicating changes in enrollment status to students through notifications. | | | | | |
| Trigger: There is a change in the enrollment status of the students (e.g., enrollment, waitlist changes, disenrollment) | | | | | |
| Type (External/Temporal): Temporal | | | | | |
| Preconditions:   1. The course enrollment system is accessible 2. The students are registered in the course enrollment system. 3. Students have enabled notification preferences. | | | | | |
| Normal Course:   1. The system detects changes in the enrollment status of the student. 2. The system identifies the affected student(s) and the type of notification to be sent(e.g., email, mobile notification) 3. The system generates the appropriate notification (e.g., enrollment confirmation, updates in waitlist movement, disenrollment notice). 4. The system sends the notification to the student through their preferred communication channel. 5. The respective student(s) receive(s) the notification. | | | Information for Steps:   1. The system continuously monitors student(s) enrollment status changes. 2. The system identifies the affected student(s) and the type of notification to be sent (e.g., email, mobile notification). 3. The system now generates notification content based on the type of enrollment status change. 4. The system utilizes the selected communication channel to send the notification. 5. Student(s) receives the notification promptly. | | |
| Alternative Courses:  If the system encounters an error while sending notifications:   1. The system logs the error 2. The system attempts to resend the notification. 3. If resend fails system generates an error report. 4. The system administrator is notified to investigate and resolve the issue. 5. Upon resolution, affected students are notified of enrollment status changes. | | | Information for Steps:   1. The system detects an error in sending the notification. 2. The system attempts to resend the notification to the affected student(s). 3. If resend fails, the system generates an error report detailing the issue. 4. System administrators are notified of the error report. 5. Administrator investigates and resolves the issue, once resolved notifies affected students of enrollment status change. | | |
| Post Conditions:   1. The affected student(s) are notified of the enrollment status change. 2. Students are informed in a timely manner, enhancing transparency in enrollment process | | | | | |
| Summary Inputs   1. Enrollment status changes notification trigger. 2. Student notification preferences. 3. Communication channels(email, mobile) | Source  Enrollment system database | | Summary Outputs  Notification message  Notification Delivery confirmation | | Destination  Student(s) email inbox or mobile device. |

**Interview:**

Name of Interviewee: Preet Patel

Role of the Interviewee: Student

Date and Time of Interview: March 25, 2024, 1:00 PM

Name of the Interviewer: Sai Sri Harsha, Kumbam

List of Questions Asked:

1. Can you describe the current process of course registration at our university?
2. How are waitlists currently managed for high-demand courses?
3. Have you ever tried registering for courses from other departments?
4. Are there any specific procedures for cross-departmental course registration? Can you also elaborate on how it works?
5. Do you receive notifications about changes in your enrollment status or waitlist movement?
6. How are students currently notified about changes in their enrollment status or waitlist movement?
7. How do instructors and students provide feedback on the course enrollment process?
8. Can you describe the existing interface students use to track their enrollment status and waitlist position?
9. Do you have any suggestions for improving the course enrollment process?
10. Are there any additional features or functionalities that students have requested that you believe would enhance the course enrollment process? – to Prof