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COMSATS University Islamabad

**Abbottabad Campus**

*Project Proposal*  
UNIVERSITY ADMISSION SYSTEM

***CSC392*** *OBJECT ORIENTED SOFTWARE ENGINEERING*

*By*

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*Bachelor of Science in* ***SOFTWARE ENGINEERING***

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Contents

[**CHAPTER 1:** 3](#_Toc134127951)

[INTRODUCTION: 3](#_Toc134127952)

[VISION AND SCOPE: 3](#_Toc134127953)

[BUSINESS CASES: 4](#_Toc134127954)

[SPECIAL REQUIREMENTS / EXPECTED QUALITY MEASURES: 4](#_Toc134127955)

[RISKS WITH MEGITATION PLAN: 4](#_Toc134127956)

[**CHAPTER 2:** 5](#_Toc134127957)

[USE CASES DISTRIBUTION; 5](#_Toc134127958)

[USE CASE DIAGRAM: 6](#_Toc134127959)

[BRIEF LEVEL USE CASES: 7](#_Toc134127960)

[SYED SHAH HUSSAIN (FA21-BSE-172): 7](#_Toc134127961)

[FULLY DRESSED USE CASES WITH UI PROTOPTYPE: 8](#_Toc134127962)

[SYED SHAH HUSSAIN BADSHAH (FA21-BSE-172) 8](#_Toc134127963)

# **CHAPTER 1:**

## INTRODUCTION:

As the number of students appearing for the counseling are increasing rapidly every year, it requires much effort and time to handle the admission system with man power and paper system. So we are in need of a better system to make the process easier and serves better which could be done by Computerized Student Admission System that facilitates the work of the universities and at the same time it must reduce the work load of the organization with expected quality. Quality in the sense, the system tries to avoid the mistakes that are usually happen during the Admission Process. The University Admission System has been developed in order to automate the complete admission system starting from the notification to admission process.

The system enables online admissions saving the time of the geographically scattered students. It enables reducing time in activities, centralized data handling and paperless admission with reduced manpower. It improves the operational efficiency and reduces the cost. It also provides consist view of data and integration with other institutions for verification of marks and details.

## VISION AND SCOPE:

**Vision:**

The vision of a university admission system is to provide an accessible, fair, and efficient process for selecting and admitting the most qualified candidates to the academic programs offered by the university. The system should ensure that every applicant is given equal consideration and opportunities for success, regardless of their background, ethnicity, gender, or financial status.

**Scope:**

The scope of a university admission system includes the following:

**Application process:** This involves developing and implementing an online or paper-based application process that includes all necessary fields and information required to evaluate the applicant's qualifications.

**Evaluation process:** This includes the development of evaluation criteria that are aligned with the academic program's requirements, and the review of applications by the admissions committee or evaluators. The evaluation process may also include interviews, essays, and letters of recommendation.

**Admission decision**: This involves making the final admission decision based on the evaluation results and the requirements of the academic program.

**Communication and documentation:** This includes notifying applicants of the admission decision and providing any additional documentation required for enrollment, such as transcripts, financial aid forms, or health records.

**Continuous improvement:** The university admission system should continuously monitor and evaluate its processes and outcomes, and make improvements as necessary to ensure that it remains effective and aligned with the university's mission and goals.

## BUSINESS CASES:

## SPECIAL REQUIREMENTS / EXPECTED QUALITY MEASURES:

## RISKS WITH MEGITATION PLAN:

# **CHAPTER 2:**

## USE CASES DISTRIBUTION;

|  |  |  |
| --- | --- | --- |
| Name | Reg No | Assign Use cases |
| Hamza badar | Fa21-bse-055 | 1.View admin,  2.Published Merit list  3. Check Merit List |
| Mahad Wajid | Fa21-bse-057 | 1.Enter Personal info  2.Announcement  3.Scheduling test |
| Abdul Aziz | Fa21-bse-058 | 1.Take Test  2. Print Challan  3. Make Test Payment  4.Make Admission payment |
| Soman Ahmed | Fa21-bse-150 | 1.Logout,  2.Academic info  3.verify document |
| Danyal Nawaz | Fa21-bse-083 | 1.Login  2.Apply for test  3. Apply For Admission |
| Shah Hussain | Fa21-bse-172 | 1.Notify  2.Admission Confirmation |
| Ajwa Sardar | Fa21-bse-072 | 1.Registration  2.Arrange Test  3.Admission Criteria |

## USE CASE DIAGRAM:



## BRIEF LEVEL USE CASES:

### SYED SHAH HUSSAIN (FA21-BSE-172):

#### Use Case: NOTIFY (ADVERTISEMENT)

1. **Admission Offer Notifications:** The university admission system can notify applicants of their admission offer, which will contain information about the program they have been accepted into, the start date, and any other important information.
2. **Rejection Notifications:** If an applicant's admission is rejected, the university admission system can notify them with an explanation of why they were not accepted and any other helpful information about next steps.
3. **Waitlist Notifications**: If an applicant is placed on a waitlist, the university admission system can notify them of their status and provide them with any additional information they may need to know.
4. **Deadline Reminders**: The university admission system can also send reminders to applicants about upcoming deadlines, such as the deadline to accept an offer of admission or submit any required documents.
5. **Scholarship Notifications**: If a scholarship is awarded, the university admission system can notify the applicant of the award amount and any additional information they may need to know.
6. **Orientation Information:** The university admission system can also notify admitted students of upcoming orientation dates and any other relevant information that will help them prepare for their first day of classes.

#### Use Case: CONFIRM ADMISSION

1. **Acceptance of admission offer:** The system could allow newly admitted students to confirm their acceptance of the admission offer through an online portal. This would help the university to accurately estimate the incoming class size and plan for enrollment.
2. **Confirmation of enrollment status**: The system could allow students to check their enrollment status and confirm their enrollment in the courses they plan to take.
3. **Confirmation of financial aid and scholarship status**: The system could allow students to confirm their financial aid and scholarship status and accept or decline any offers they have received.
4. **Confirmation of attendance at orientation events:** The system could allow students to confirm their attendance at orientation events, which are typically held prior to the start of the semester to help new students acclimate to campus life.
5. **Acknowledgment of university policies:** The system could require students to confirm their acknowledgment of university policies, such as academic integrity and conduct standards, before they are fully enrolled.

## FULLY DRESSED USE CASES WITH UI PROTOPTYPE:

### SYED SHAH HUSSAIN BADSHAH (FA21-BSE-172)

#### Use Case: Notify (ADVERTISEMENT)

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| --- | --- |
| Use Case Name | Notify (Advertisement) |
| Scope | This use case covers the process of notifying potential applicants of upcoming admissions for the university. |
| Primary Actors | University Administrators |
| Stakeholders | University Administrators, Prospective Applicants |
| Pre-Conditions | The university has upcoming admissions, and the university administrators have prepared the admission advertisement. |
| Main Success Scenario | 1. The university administrators access the admission system and select the Notify feature.  2. The administrators create the admission advertisement, including the required information, such as application deadlines, required documents, and admission criteria.  3. The administrators select the target audience for the notification based on various criteria, such as age, academic level, location, and interests.  4. The admission system generates the notification and sends it to the target audience via email or other communication channels.  5. Prospective applicants receive the notification and follow the instructions to apply for admission. |
| Alternative Scenarios | - If there are technical issues with the admission system, the administrators will contact the IT department to resolve the issue.  - If the notification fails to reach the target audience, the administrators will investigate the issue and take appropriate actions to resolve it. |
| Success Guarantee | The notification process will be successful, and the target audience will receive the admission advertisement. |
| Expectations | The university administrators expect to reach a wide audience of potential applicants and to receive a high number of applications as a result of the admission advertisement. |
| Frequency of Occurrence | This use case occurs periodically, depending on the admission cycles of the university. |
| Technology and Data Variation List | - Operating System: Windows, Mac OS, Linux  - Web Browser: Chrome, Firefox, Safari, Edge  - Communication Channels: Email, Social Media, SMS |
| Prototype | A prototype of the notify feature will be developed to test the use case. |
| Miscellaneous | None. |
| Use Case Section | Admission |
| Special Requirements | The admission advertisement should include all necessary information for prospective applicants to apply for admission, including any required documents and deadlines. The notification should also be personalized and relevant to the target audience to increase the chances of attracting qualified applicants. |

#### Use Case: Confirm Admission

|  |  |
| --- | --- |
| Use Case Name | Confirm Admission |
| Scope | This use case covers the process of confirming admission for accepted applicants in the university admission system. |
| Primary Actors | Accepted Applicants |
| Stakeholders | Accepted Applicants, University Administrators |
| Pre-Conditions | The applicant must have been accepted into the university through the admission system. |
| Main Success Scenario | 1. The accepted applicant logs into the admission system using their credentials.  2. The applicant views the status of their admission and any pending tasks required for enrollment.  3. The applicant confirms their intention to enroll in the university.  4. The admission system generates an admission confirmation letter for the applicant.  5. The applicant receives the admission confirmation letter and follows any instructions provided. |
| Alternative Scenarios | - If the applicant is unable to log in, they will contact the IT department for assistance.  - If there are any technical issues with the admission system, the applicant will contact the IT department to resolve the issue. |
| Success Guarantee | The admission confirmation process will be successful, and the applicant will receive confirmation of their admission to the university. |
| Expectations | The applicant expects to receive confirmation of their admission and to have clear instructions for the enrollment process. |
| Frequency of Occurrence | This use case occurs frequently during the enrollment period. |
| Technology and Data Variation List | - Operating System: Windows, Mac OS, Linux  - Web Browser: Chrome, Firefox, Safari, Edge  - Data Format: PDF, Email, Text Message |
| Prototype | A prototype of the admission confirmation process will be developed to test the use case. |
| Miscellaneous | None. |
| Use Case Section | Admission |
| Special Requirements | The admission confirmation letter should include all necessary information for the applicant to complete the enrollment process, including any required documents and deadlines. |