**COMSATS University Islamabad, Abbottabad Campus**

**Department of Computer Science**

**Project Proposal**

**‘SimplyApply’**

**CSC392 Object-Oriented Software Engineering**

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# CHAPTER 1 PROJECT PROPOSAL

## Introduction

According to the survey, most of the students studying in different colleges and schools of Abbottabad belong to rural areas which are far away from the desired places of study which is a problem for students because they are compelled to travel a long way to take admission and do other processes. so we have decided to build software that can bring ease for students to complete their admission process along with other primary processes through this software.

## Vision and Business Case

In this project, there is a section named owner, which will be overall controlled by the institutes that provide admission for students and will allow students to access their institute’s information for primary processes. Later on, we have Student section in which students can search for their desired schools and colleges and access their information regarding the admission processes and also they can take admission in that desired institute. With this, there is also a section of visitors through which users can visit the website and check about different institutes present inside this software.

## Use-Case Model

In this project we have different functionalities:

1. Show interest
2. Apply
3. Login
4. Add institutes
5. Verify institutes
6. View institute
7. Remove students
8. Add advertisements
9. Manage Owner
10. Manage institute

## Supplementary Specification

These are some Non Functional Requirements as we together in this inception phase. Security requirements are important factors in this system as classified data will be stored in the database. User (Principal) validation will be done during login to insure that the user is valid and that the user only has access to his or her permission data. General users will only have access through the user interface. The system will have consistent interface formats and button sets and for all form-based applications, will have a form based interface for all data entry and viewing formats. The system will be easily maintained by an authorized trained person (Admin) and it shall respect reports fast as possible in generating report and producing the timetable.

## Glossary

**Show interest:**

Mean select school or college.

**Add institute:**

This only for principal where they will added your school or college.

**Verify institute:**

Board and admin will verify their institute.

**View institute:**

Principal can view your institute page (e.g.: performance, feedback, etc.).

**Add advertisements:**

Principal can add advertisements about your institute.

**Manage owner:**

Admin will manage all the institutes principals.

**Manage institutes:**

Admin will manage all the institutes.

**Authorized trained person:**

Mean admin.

**Owner:**

Mean Principal of institute.

## Risk List & Risk Management Plan

### **1. Malware**

Digital hackers are watching your every move and trick you to download malware and take control of your computer remotely. They use malware to attack computer networks to perpetrate crimes.  Fraudsters use virus, malware, spyware, spams, and phishing to gain access to your sensitive personal information and commit financial crimes. Defend your data against malware through secure servers, whether physical or in cloud, and shield against vulnerabilities.

### **2. Theft & Loss**

Unauthorized users without permissions who have access to sensitive data can cause harm to educational institutions as a result of theft. There is a risk of the sensitive academic data will be leaked by staff. It becomes easy to lose your storage media with backup data due to misplacement or theft. When you suffer data loss due to various incidents such as mechanical damage, power failure, software crash, disasters or loss of your laptops and mobile devices, it is another way of inadvertent data exposure. Keep all your data safe and secure using role-based access control to ensure confidentiality and privacy.

### **3. Unsafe data**

If adequate safety precautions are not taken when files and documents are shared in website, smartphones and tablets via internet networks, the information contained on them might gain access to the devices and get exposed to risks. We can make use of cloud deployments to manage the education system better and better.

### **4. Negligence**

When data is stored in computers or laptops, it has become so natural that people lose the information when files are accidentally deleted or even it could fall into the wrong hands. Ensure a proper backup strategy to keep your data on important devices and run them smoothly without hassles.

# CHAPTER 2 USE CASES

## Use Case Diagram



## Brief Level Use Cases

### Shabbir Hussain (SP21-BSE-047)

Use Case: Register Account

The use case starts when the user clicks the “Sign Up” tab on the navigation bar. The system displays the signup page that allow users to fill in their username/email address, first and last name and their password. The user keys in the details and clicks “Sign Up” button. The system displays the user’s profile page.

### Mansoor Ashraf (SP21-BSE-064)

*Use Case: Process Sale*

*Use case: Check requests*

After being verified from Board Admin will check whether the institute is registered on Board or not. If not, then the registration of that institute will be rejected on website. If yes, then Admin will give permission to owner of the institute to be registered

### Laiba naeem (sp21-bse-041)

#### Use Case: Process Sale

#### Use case: Add institute

When the owner wants to add institute he will click on the button “Add institute” then a form will appear in which the owner add the details of the institute he wants to add if the information is correct the institute will be added else he will be notified to correct the errors.

#### Use case: Verify institute

When the owner submits the form of adding institute the system will check if that institute is verified by the board or not if its verified the institute will be added else the owner will write application to board to verify the institute.

#### Use case: Check requests

After adding and verifying the institute in the website the Owner (Principal of institute) and admin (admin of website) can check the requests of the students who showed interest and registered themselves for institutes.

### Tanveer Ahmad (SP21-BSE-048)

#### Use-Case: Manage Institute

Mange institute is Admin use case in which admin can perform CRUD operation

On institute. Admin can ADD Institute, Delete Institute, Update Institute and can Retrieve Institute

Information about institute

#### Use-Case: Logoff

In logoff use case Admin just logoff his account

### Syed Kashif Ali Shah (SP21-BSE-062)

#### Use Case: Show Interest

Firstly visitors (students) will search simply apply on search engines (Google, Microsoft Edge, fire Box, etc.) then they will visit this website, click on show interest, and select institutes, so then they select their choice (Schools, Colleges, and academies).

#### Use Case: Apply

If visitor (student) interested in any school or college so they click on apply button and fill the requirements of school or college. And wait of response for school or college.

Student Name 2 (Registration Number 2)

Student Name 3 (Registration Number 3)

# Fully Dressed Use Cases

## Shabbir Hussain (SP21-BSE-047)

**Use Case:**

Register Account

**Description:**

The use case describes how an owner can register their institute.

**Primary Actors:**

Companies, academics and students

**Secondary Actors:**

None

**Preconditions:**

The institute registration web page is displayed to the owner. The institute is not registered

**Main success Scenario:**

* The use case starts when the user clicks the “Sign Up” tab on the navigation bar.
* The system displays the signup page that allow users to fill in their username/email address, first and last name and their password.
* The user keys in the details and clicks “Sign Up” button.
* The system displays the user’s profile page.

**Alternative Flow:**

* If the user name is invalid, the owner is asked to choose another username.
* If owner enter incomplete details, system displays “please complete personal details” message.

**Post Conditions:**

Owner and institute registered .The grooming web page is displayed.

**ScreenShot :**



## Mansoor Ashraf (SP21-BSE-064)

| Use Case UC1: Check Request |
| --- |
| **Scope**: Admission  **Primary** **Actor**: Admin  **Stakeholders and Interests**:  Institute and owner  **Admin:** Admin is a person who handle the website |

**Success Guarantee**

Admin can add and remove institutes

**Main Success Scenario (or Basic Flow):**

* Admin logged in and Request to Manage Institutes
* System Response and Show ADD Institute, Remove Institute, Update Institute, retrieve Institute
* Admin request to Add Institutes and Perform Action
* Admin request to Remove Institutes and Perform Action
* Admin request to Update Institutes and Perform Action
* Admin request to Retrieve Institutes and Perform Action

## Tanveer Ahmad (SP21-BSE-048)

**Use Case**: **Manage Institute**

**Scope: Management**

**Primary-Actor**: **ADMIN**

**Stakeholders and Interests**:

Institutes and Owner

**Admin:**

Admin request to Manage Institute then system response to show the ADD Institute, Delete Institute, Update Institute, and Retrieve Institute Details. Admins perform one operation at time.

**Main Success Scenario (or Basic Flow):**

* Admin logged in and Request to Manage Institutes
* System Response and Show ADD Institute, Remove Institute, Update Institute, retrieve Institute
* Admin request to Add Institutes and Perform Action
* Admin request to Remove Institutes and Perform Action
* Admin request to Update Institutes and Perform Action
* Admin request to Retrieve Institutes and Perform Action

**Use Case**: ADD Institute

When Admin request to Add institute then the System Response to show add institution registration form and admin fill the form and request to submit.

**Use Case**: Delete Institute:

admin request to deleted account then system response to show deletion form in which have institute name and id to be deleted and institute will be deleted from database. In future information of institute will not be shown on SimplyApply.

**Use Case**: Update Institute:

admin request to Update account then system response to show updating institute and change will occur in Database.

**Use Case**: Retrieve Institute:

admin request to retrieve institute information and System show all information about institutes

## Syed Kashif Ali Shah (SP21-BSE-062)

| Use Case UC1: Show interestUse Case UC1: Apply |
| --- |
| **Scope**: Admission  **Primary** **Actor**: Visitor  **Stakeholders and Interests**:  **Visitor:** If visitor is a student so, they can search for their desired schools and colleges and access their information regarding the admission processes and also they can take admission in that desired institute.  - **Preconditions**: no need to login. |

**Success Guarantee**

Visitor can apply sitting at home.

**Main Success Scenario (or Basic Flow):**

* Visitor can select institute (school or college)
* Visitor can visit multiple institutes
* Visitor can watch advertisements about institute
* Visitor can watch rating of institute
* Visitor can apply

**Extensions (or Alternative Flows):**

* If visitor already known about your interested institute so, they can apply directly from home page.
* If visitor faced some problem so, they can get help from after click the help button.

**Special Requirements:**

* No special requirements need for visitor. They can view or apply any institute without login.

**Technology and Data Variations List**:

* Smart Phone
* iPod
* Laptop
* Computer

**Open Issues:**

* Board verification

**Screen Shots:**

**Screenshots: Graphical user interface, text, application

Description automatically generated**

### Laiba Naeem (sp21-bse-041)

Fully dressed:

**Scope:** Add their institute

**Primary actor:** Owner

**Stakeholders and Interests**:

Here the stakeholder is the owner of the institutes who add their institute in the website so that the students can take admission in that specific institute. As the process of admission will be online it be feasible for the students to apply in their desired institutes.

**Pre-conditions:** Login

**Success Guarantee:**  Visitor can apply sitting at home.

**Main success scenario:**

* Add their institutes
* Verify their institutes
* Admissions in their institutes

**Extensions (or Alternative Flows):**

If owner of the institute can’t add their institute the admin of the website also have the access to add the institute after getting verified by the board.

**Special Requirements:**

* Verification of institute.
* Login

**Technology and Data Variations List**:

* Smart Phone
* IPod
* Laptop
* Computer

**Open Issues:**

* Board verification