# **GST Admission System**

# software requirements specification (SRS)

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#### 1. Introduction

### 1.1 Purpose

The purpose of the project is to make a viable Guccho University Admission system where a student can apply for different universities at the same time from a single platform on the basis of their admission result.

#### 1.2 Document Conventions

This document uses the following conventions-DB - Database

## 1.3 Intended Audience and Reading Suggestions

This project is a prototype for the Guccho University Admission system for both general and Polytechnic institute(Special Quota) students. This has been implemented under the guidance of both university authorities and a company named DataSoft ltd. This project is useful to the students as well as to the university authorities.

### 1.4 Project Scope

The purpose of the online university admission system is to make the application system easy for students, whereas previously students needed to apply for admission for every single university. Our target is making this system unite and automate the system upto subject choice.

The system is based upon a student's previous board exam results (both SSC and HSC). A central authority body (Administrator from individual universities) handles the full system and an IT Team.

**1.5 References Websites Link:** <a href="https://www.javatpoint.com/software-requirement-specifications">https://www.cse.msu.edu/~chenqb/RE-491/Papers/SRS-BECS-2007.pdf</a>

Books references:

Software Engineering: A practitioner's approach Ed. By Pressman, Roger

# 2. Overall Description

## **2.1 Product Perspective**

Guccho University Admission provides information such as

#### • Eligibility Check

One applicant or student at first can check for the eligibility in Guccho University Admission without having any account via the roll number and registration number of the HSC exam.

#### • Online Application

One applicant or student can apply for university admission online and can also pay for the application via different payment gateway. They can also choose the examination center.

#### • Exam center choice

An applicant can chose at most five exam center as his/her preference so that he/she can easily go to that exam center.

#### Online payment

A student will pay the cost of initial application online. This way the precious time of the student will be saved because they do not need to go to a bank and stay in line to make the payment for admission application.

#### Admit Card

The applicant can get the admit card for the admission exam and download it.

#### Result

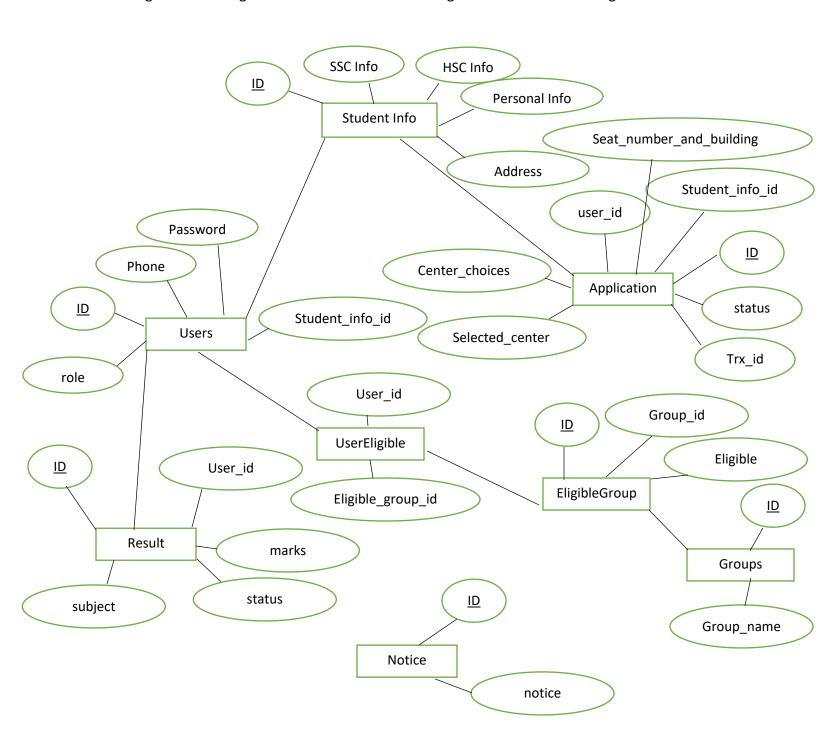
The applicant can get the result of the admission exam with the respective marks in different subjects.

#### Necessary information

The necessary information of getting admitted into the university or the result of migration and the information of choosing the subject will be published here.

## 2.2 Product Features

Guccho University Admission is basically a web based platform where the web app is connected with a database. The database used here is connected with the Education Board Database for checking and searching some information. The E-R diagram for the database is given below-



# Fig-1: ER-Diagram

#### 2.3 User Classes and Characteristics

Here there are mainly two users - 1. the applicant or the student and 2. the university administration. The applicant or student at first can check the eligibility and apply for the application of admission in three groups based on their examination group. The university administration can check the application details and select the applicants for the admission exam which will be updated in the web app and the applicant can find their necessary information. The applicants can also download the admit card. The result of the examination will also be published here. The necessary information of admission into the universities and choosing subjects will also be given here. The university administrations may also publish the result migration here.

The applicant or student can perform the followings:

- check eligibility for admission based on roll number and registration number
- register account using phone verification
- log in or change password
- apply for admission application form for different groups
- select the examination centers
- pay payments via different payment gateways
- get admit card and location for appear on the exam
- get result of the admission exam along with the marks
- get necessary information for university selection and subject selection
- get subject migration result

The University administrations can perform the followings:

- view the application form for selecting the applicants
- update information of selected students along with selected examination center
- publish result of the selected students along with marks and merit number
- publish necessary information for admission, subject choice and subject migration

# 2.3.1. Student Part Use Case

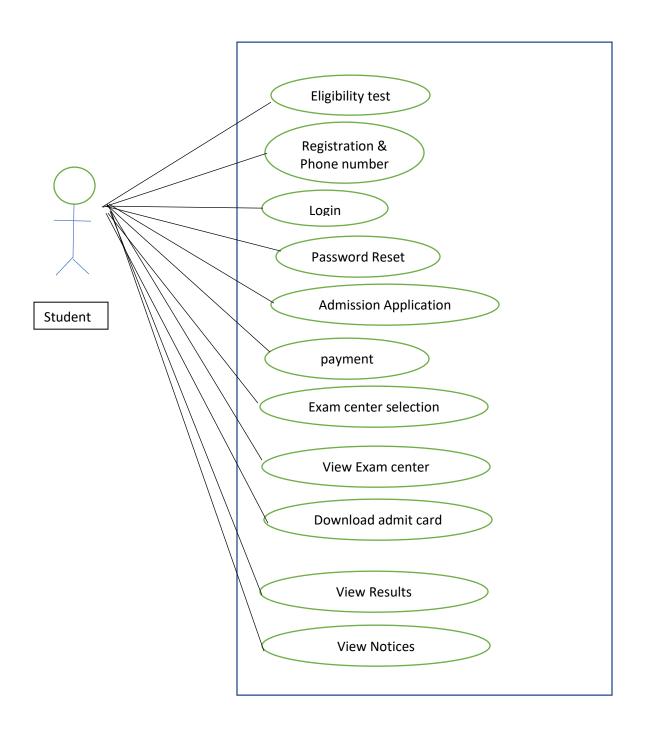


Fig-2: Student Part Use-case diagram(UML)

# 2.3.2. University Admin Part Use Case

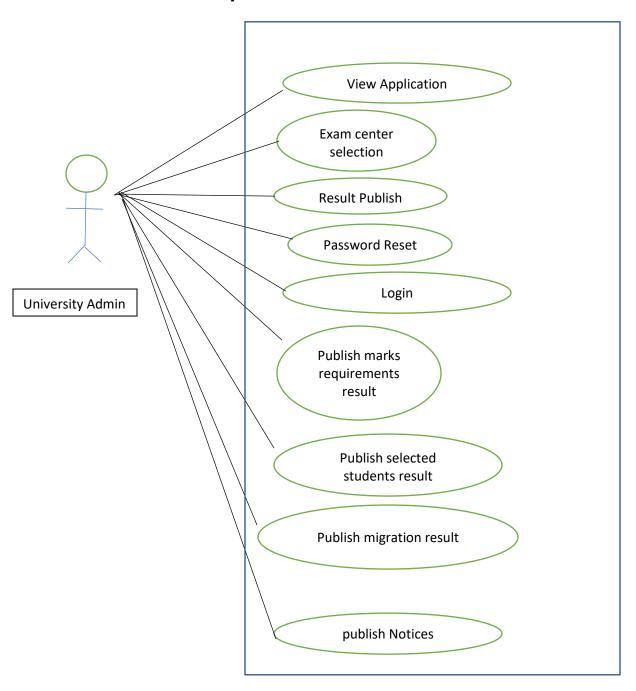


Fig-3: University Admin Part Use-case diagram(UML)

# 2.3.2. University Admin Part Use Case

# 2.3.3. Admission system Use Case

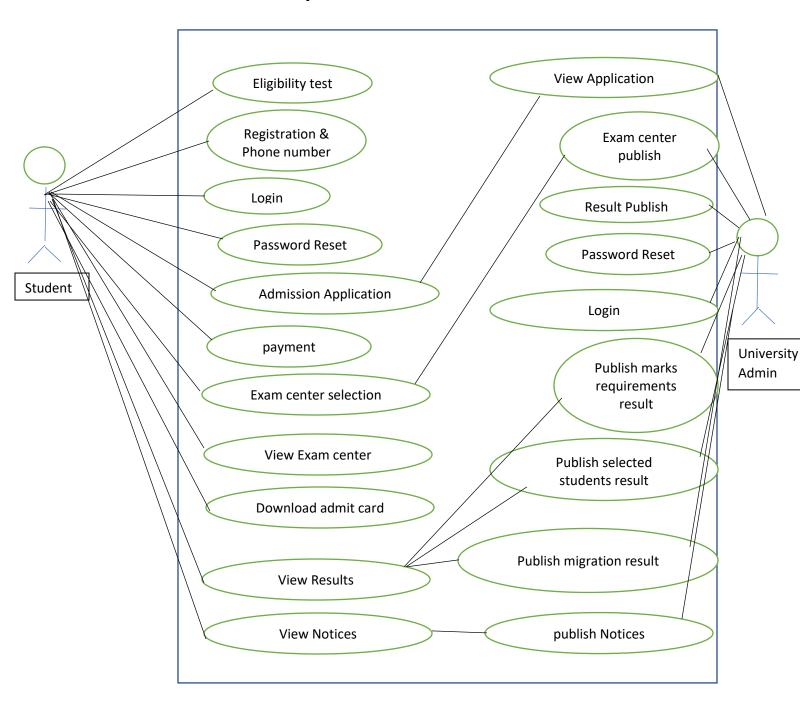


Fig-4: Admission system Use-case diagram(UML)

# 2.4 Operating Environment

The operating environment is given below-

- distributed database
- client/server system
- operating system: windows, android, mac
- database: sql / others (necessary)
- language: HTML, NodeJS/PHP, Javascript/Reactjs.

# 2.5 Design and Implementation Constraints

- 1. There should be different schemas like global schema, fragmentation schema, and allocation schema.
- 2. SQL commands for gueries in the applications.
- 3. The response of the application for step 1 and 2, will be generated accordingly. Assuming these are global queries the explanation of how various fragments will be combined to do so will be given.
- 4. Implementing the database using a centralized database management system at least.

# 2.6 Assumptions and Dependencies

The application can perform the following assumption and all of them are depended to each and other -

- eligibility check and online admission application fillup
- reducing the effort and working load of the applicants before admission
- · authentic source for university admission and result
- providing information for getting admission and subject choice and migration

# 3. System Features

# 3.1 Description and Priority

The main object of Guccho University Admission is to ease the workload of the applicants before the admission exam. It is a web platform for online application with a database connected with the Education board to ensure the authenticity of the applicants. It also eases the workload of the universities of admission exam before-procedure. The application has high security and scalability. It is easily maintainable.

# 3.2 Stimulus/Response Sequences

There are two main users - the applicants and the university administrations, have access to the system and can update the data. Based on their updated data, the information is processed and updated accordingly. They are dependent on each other in this regard. The applicant get the necessary information from here.

#### 3.3 Functionalities

- User Story -1-: Applicants or Students
  - 1. eligibility checking for admission
  - 2. registering account using phone verification
  - 3. logging in or changing password
  - 4. updating and applying for admission application form for different groups
  - 5. selecting the examination centers
  - 6. payments via different payment gateways
  - 7. getting admit card and location for appear on the exam
  - 8. getting result of the admission exam along with the marks
  - 9. getting necessary information for university selection and subject selection
  - 10. getting subject migration result
- User Story -2: University Administrations
  - 1. viewing the application form for selecting the applicants
  - 2. updating information of selected students along with selected examination center
  - 3. publishing result of the selected students along with marks and merit number
  - 4. publishing necessary information for admission, subject choice and subject migration