## Objective

Development of an online University Admission System (UAS)

## Abstract of the project

This project is aimed at developing an online University Admission System (UAS)for applicants. This is a web based application that can be accessed throughout the web. This system can be used to search a university program for which an applicant wishes to take admission; apply online for a selected university program without any login and fill up the form, administration staff can add/update/delete any program that university offers. Members of admission committee have the responsibility to filter the candidates for a specific program on the basis of application data and interview. There are features like report generators etc in this system.

## Functional components of the project

Following is a list of functionalities of the system. Wherever, the description of functionality is not adequate; you can make appropriate assumptions and proceed.

There are three categories of people who would access the system viz. applicants, **m**embers of **a**dmission **c**ommittee (mac) and administrators. Each one of them would have some exclusive privileges (for e.g. Applicants can apply for a program by filling up the online form without any login process, members of admission committee alone will be able to view applicant details and filter the applicants for a specific program they have applied for and only the administrator has the right to keep track of the university’s program details.)

1. Applicant should be able to
   * View all programs scheduled by the university
   * Apply online for a scheduled program of the university, by filling up the application form that auto generates the application ID
   * View the application status, based on the application ID
2. The **m**ember of **a**dmission **c**ommittee (mac) should be able to :
   * Login into the system using his/her credentials.
   * View applications for a specific program.
   * Accept/Reject an application on the basis of the details of the applicant. If accepted, fill in the scheduled date for an interview of the applicant before confirming the applicant to take the program.
   * After the interview, update the status of the application to Confirmed/Rejected
3. The administration should be able to
   * login to the system using his/her credentials
   * Update and manage (add or delete) information of the programs offer by the university
   * Manage (add or delete) schedules of the programs offered by the university
   * Generate various reports like:
     + View List of applicants confirmed/ accepted (waiting for interview)/rejected for a scheduled program.
     + View list of programs scheduled to commence in a give time period

Transition of Status: Applied ->Accepted/Rejected->Confirmed/Rejected

**Suggested Stack:**

1. **JAVA Track:**

* Java 8
* Angular 6+
* Maven
* Spring Boot 2.x
* SpringREST
* Spring Data JPA
* Postman
* Oracle/Postgres
* JUnit 5/Mockito
* Sonarqube
* JACOCO

1. **.NET Track**

* C#
* Asp.net
* EntityFramework
* Angular 6+
* MSBuild, MSTest/NUnit,
* SQL/MySQL/Oracle/Postgres