

# 1 Seat allocation project report

## 1.1 objects used

This is our CS 251's seat allocation project of Group 02.

## 1.2 Working of the project

- This project has mainly 3 parts. 1. Implementation algorithms using java 2. Python GUI 3. Interface using Django
- PART 1.
- User enters the information like Unique id, choices, category preferences, and additional information
- We have created functions to manipulate all the data.
- There are 4 classes, 1. Candidate 2. VirtualProgramme 3. MeritList 4.GaleShapleyAdmission
- There are 2 algorithms used here. 1. Modified Gale- Shapely Stable Matching Algorithm 2. Merit List order Allocatio
- PART 2
- First we converted the pdf into text using pdftotext shell command.
- Then we read the values in it by the python program update.py and output it in a .csv file
- PART 3
- Interactive web interface made using Django.
- There are 2 interfaces 1. User login interface 2. Choose preference interface

### 1.3 Contribution and sources

Contribution of each user and Sources.

- User 1- Rohan made the python code update.py and p1.py for the web interface and designed 2 classes in lab 10  
User 2- Chandra designed algorithms for lab 10 part
- User 3- Ayush helped in lab 10 gayle shapley and made the Django interface
- All tasks were done by all 3 of us in group.
- Sources - Stack overflow to check syntax of Django, Java , Google to search some errors, and to understand some algorithms , to search use of pdftolatex and for some java errors