# Project Proposal

# BITSAT Allocation Software

Section 1: Domain Description

A university-level exam, BITSAT is conducted every year for admission to Integrated First degree programmes offered by the institute – B.E. and M.Sc. Candidates who qualify in the entrance exam are offered admissions at any of the three campuses – Pilani, Goa and Hyderabad. After attempting the exam, each student is awarded their marks and based on the marks they can enter their campus and branch preferences.

Section 2: Functionality supported

1. This product allows students to enter their marks and their preference of institutes
2. Based on the marks, the software allocates them a rank. If two students have the same marks, then the rank is allocated based on their marks in Math, Physics and Chemistry section respectively
3. The software will predict which institute and branch the student will be allotted based on the number of seats available in each institute
4. Students can also edit their preferences 2 weeks before the official allotment
5. The number of available seats and previous years’ cut-off ranks for each institute can be viewed by the student
6. Students can also withdraw their application from the system

Section 3: GUI and the purpose

1. Sign Up Page – Enter marks, Application number, preference list and other details of a new student
2. Login Page – Enter the Application number and password of an existing student
3. Home Page – Provides links to the various functionalities of the software
4. Institute statistics Page – Displays the number of seats available and allocated in that particular institute course-wise. It also shows previous years’ cut-offs
5. Students information page – Displays the rank and Institute allocated to a Student
6. Modification/Withdrawal Page – Gives an option for a student to modify his preference list or withdraw his application from the procedure

Section 4: Technology used

AMP environment-

1. **A**pache for Web Server
2. **M**ySQL for Database
3. **P**HP for server scripting
4. Bootstrap for GUI
5. Git for Version Control

Section 5: Members of the group

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