

Higher Education Applicant Database

Introduction

Higher Education Applicant Database (HEAD) is a project whose goal is to build a web-based system to track applications of students applying for higher education courses in different universities.

Prospective Users

This project is for the management of applications from college students and hence it is confined within the college staff and students.

System Overview

1. Types of users: There will be three categories of users.
 - a. Student
 - b. Teacher
 - c. Administrator
 - 1.1. Name, roll number, date of birth, password (for login) will be stored for each student along with university records that he/she will apply to. Roll number will contain batch and department information.
 - 1.2. Under university record the name of university, faculty of application, roll number of applicant, and country will be saved
 - 1.3. Students are uniquely identified by their roll number. Thus login credential for student will be their roll number and password.
 - 1.4. Records for teacher will include name, department and password (to login)
 - 1.5. Teachers are uniquely identified by their name and department. Thus login credential for teacher will be their name, department and password.
 - 1.6. There will be single administrator account which will be used by authorized members
2. Role of users:
 - 2.1. Only administrator can add or remove new student's and teacher's records.
 - 2.2. Administrator initializes records of students and teachers through excel files or individually in the system.
 - 2.2.1. Initial records for student will include name, roll number, date of birth and password.
 - 2.2.2. Initial records of teacher will include name, department and password.

- 2.2.3. A password generator system will automatically generate initial password of users.
 - 2.3. Administrator can see and change login credential (password) of other users (teachers and student or of the admin itself).
 - 2.4. Teachers can see information (all except password) of individual students.
 - 2.5. Teachers and administrator can search for students based on student's info or university's info.
 - 2.5.1. Search field for student info will include name, roll number, batch, department
 - 2.5.2. Search field for university will include university name, country and faculty of application
 - 2.5.3. Search may be carried out either singly based on each fields or their combinations
 - 2.6. Students are expected to update information on universities they are applying to.
 - 2.6.1. The information on university includes name of university, country and faculty selected for application
 - 2.7. Students and teacher can change their own login credential (password).
- 3. Security: Security is not of much concern so, hashing functions will not be used to save passwords of user, to save memory usage. But for administrator account hashing function will be used.
 - 4. Operation: The system is expected to serve multiple users at a time.
 - 5. Interface: The system shall be available to students and teacher through website. The administrator's system shall run locally on the server computer.

Operating Environment Requirements

- *System supporting Apache WebServer*
- Platform: *HTML, CSS, PHP*

External User Interface Requirement

- Front-end: HTML, CSS, Bootstrap
- Back-end: PHP