**Title of the project**

Apprentice Management System

**Abstract of the project**

This project is aimed at developing a web-based system, which manages the activity of “Apprentice”. This system will manage the database and maintain a list of all apprentice students that have registered on this site, conduct their online entry test and create/ edit/ delete/ search for: apprentice students, contract types, certificates. Assign certificate to the apprentice students when the period of probation finished, assign contract to the apprentice students.

**Functional components of the project**

This is a system used by Educational Institutions or other organizations. We have three roles in this system, an Administrator, Student and Coach. An administrator logs into this system, and can register a Coach who belongs to that institution.

Students register in this system and get userID (similar to a website like Yahoo). A student should register, provide his information like fullname, date of birth, programming language, TOEFL score, education, soft skill. This is saved in a database.

After registering successfully, a student is logged-in to the Apprentice Management System.

After registering a student is taken to an Online Entry Test. He/she is allowed to give the Online Entry Test during a scheduled time interval (say of 2-3 weeks as decided earlier by the management). The test is an online entry test (say of 40-45minutes) which will be like any other competitive exam providing 4-5 options. After giving the test student’s entry test score is saved in the database.

In the same system, the Coach who have been registered by the administrator can login and search student by various criteria such as percentage scored in the online entry test, programming language, TOEFL score. Following is a brief description of the flow of the system:

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1. An administrator’s role
   * Can login to the system through the first page of the application
   * Can create/edit/delete new user account for a Coach and assign/change(if existing user) username and a password
   * From the list of students, he can also search by student account, programming language, TOEFL score…
   * Can create/update/delete a list of contracts. Contract includes the information such as contract name and descriptions.
   * Can create/update/delete a list of Certificate. Certificate includes Certificate name and description.
   * Can assign certificate to a student.
   * Can assign contract to a student.
   * Create/edit/delete a Coach.
2. A student’s role
   * A student if he is a new user registers into the system.
   * He enters details like his name, email address, date of birth, education, main programming language, TOEFL score and be able to select a Coach Name he wants to work with.
   * If he doesn’t select any Coach, he has the status = ‘available’, if he selects any Coach, then he has the status = ‘Assigned’.
   * His/her details are then stored in the database.
   * After entering successfully all details he is given a student group code which he uses to enter online entry test.
   * Whenever, a student successfully logs in (after registration) is asked for his student code and if successfully entered is taken to a screen (via link) where he can give an online entry test.

1. A Coach’s role
   * A registered Coach, who is assigned a user name and a password by the administrator logs can update his profile such as name, department, telephone, email address.
   * He/she is given an option to search students by various criteria such as percentage scored in the online entry test, main programming language, TOEFL score. A Coach can view all students’ information.
   * He can see student status, such as whether the student is available or has been assigned to a another Coach.