

# Graduate Recruitment System

## 1. Introduction :

Graduate Recruitment (GradRec) system is a web based project. It is developed to recruit the graduate students for the suitable project with required supervisor (project faculty). The projects are administered by a project manager.

## 2. Current system:

There is no existing system.

## 3. Proposed system:

### 3.1 Overview:

The proposed system is implemented by matching the students based on their profile (education, research interests, work experience, intended start date, need for financial support, etc.) with the available projects. The projects are managed by a project manager who can add or modify project details like (Project title, description, project participants etc.). Moreover he sets the matching criteria which will be used in matching step.

The student can communicate with project manager of respective projects for more information through communication channel and apply to a project. The project manager can accept this student or decline. If project manager accepts the student he will send the admission offer and the student may accept/decline the offer.

If the student is rejected or declines the admission, then the student can apply to a new project.

### 3.2 Functional requirements:

- *Student:*
  - Student creates and fills his profile.
  - The list matched projects appears to student only after submitting his profile
  - Communication channel between student and project manager is established related to the projects. The student can communicate for more information.
  - Student can apply to only one project at a time.
  - Student makes the decision to accept or decline the admit letter.
  - If he declines the offer he can apply for a new project.
- *Project Manager:*
  - Project manager adds new projects and provides their description. Also he sets the matching criteria for those projects.
  - Project manager makes assessment and sends the admission offer letter.
  - A project manager can manage multiple projects.

### 3.3 Nonfunctional requirements:

- The response time to show the matched project list to student within 2 sec.
- Multiple students (up to 1000) can access the online system at same time.
- The webpages have to be responsive.
- The online system has to be available 24 hours and 7 days a week.

### 3.4 Constraints:

For this full stack web application project, we use Node.js and JavaScript for our front end and back end development. **Node.js** is a JavaScript runtime environment established at server side which enable use implement service using JavaScript, which is consistent throughout entire stack development. For front end development, we use JavaScript, HTML and CSS to develop the interface webpages presented to client. And using **Eclipse** as IDE.

#### **4. User interface ( System Outputs):**

- Student Profile Submission page:  
<http://www.cs.mun.ca/~xl0471/GradRec/student-profile>
- Project Manager Project Creation page:  
<http://www.cs.mun.ca/~xl0471/GradRec/create-project>