CollaboRate system Description and Scope

Description

Group contribution calculator and collaboration system designed to facilitate group work by enabling member evaluation, communication, task management, and meeting scheduling. The main goal is to create a scalable application that centralizes group projects’ information. The application has the following user roles: Group leader and Group member. Group leader gets the role by creating the project group.

Functional requirements:

* Create and manage a project collaboration group
* Allow individuals to search and join project collaboration groups
* Allow group leader to add/accept members
* Allow group leader to change roles of members
* Allow individuals to rate contribution of all members by giving them a score out of 5, and compute final ratings. 1 means unsatisfactory, and 5 means outstanding.
* Schedule group meetings and remind members about meetings
* Create group tasks with deadlines and assign members to the tasks (A task can have more than one member). Allow members to mark tasks as completed.
* Achieve authentication and authorization to enforce role-based access
* Allow group members to write notes if member did not complete a task they were supposed to complete

Non-functional requirements:

* Push notifications about join requests, tasks deadlines, and tasks completed
* Handle growth in the number of groups and users efficiently
* Quick, smooth and reliable UI and processing
* Let users know when process is taking time (Implement spinner when backend processing that takes time occurs)

Enhancements:

* Export member contributions in a pdf
* Discussion forum/chat
* File attachments
* Integration with calendar apps (Using calendar APIs for syncing events)