CollaboRate system documentation

**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.

**Scope:**

* Maintain project group
* Maintain project meetings
* Maintain project tasks
* Maintain own details
* Request to join project group
* Add/accept members
* Change member roles
* Rate member contribution
* Request reports (Member ratings)

**Functional requirements:**

* Create and manage a project collaboration group
* Allow individuals to search and join project collaboration groups
* Allow group admin to add/accept members
* Allow group admin 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)

**Use case diagram:**

