CS 409

THE ART OF WEB PROGRAMMING

CS409 Project Proposals

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1 Proposal1

1.1 Problem Statement + Motivation

To-do list is a common tool that people use to plan their days and manage their tasks. It helps to improve people's working efficiency. However, most online to-do lists are designed for individuals. It would be helpful to have a to-do list suitable for groups. In a group, the leader can assign tasks to the group members. Group members can check their own tasks and the tasks delegated to them. The leader can track the progress of each task easily.

1.2 User problems you are solving

A group might want a to-do list that helps them to collaborate where The leader can assign tasks to group members and the members can see their assigned tasks as well as their personal tasks on their to-do lists.

1.3 Basic interactions your app will support in service of goal

1. Registered users can join a group with the roles of leader and members.
2. The leader can assign tasks to group members and check the progress of all the tasks.
3. The group members can see the assigned tasks in their own to-do lists.
4. All users can add individual tasks to their to-do lists.
5. The tasks can be split into steps.
6. All tasks can be shown in a calendar.

1.4 Other apps that are similar

Microsoft To Do, Trello, monday.com

1.5 How your app is different

Our app can be used for both individuals and groups.

2 Proposal2

2.1 Problem Statement + Motivation

People sometimes would like to travel but struggle to find suitable peers to travel with. This app aims to help people find peers to travel together.

2.2 User problems you are solving

Sometimes, people want to travel but fail to find suitable peers or would like to travel with strangers. The application can help people who would like to travel to the same destinations form a group to travel together.

2.3 Basic interactions your app will support in service of goal

1. Upload a travel plan to find other people to join the trip.

2. Search for travel plans to join, based on destination and time.

3. Construct a detailed travel plan together with peers.

4. Share travel experiences with other users on this app.

2.4 Other apps that are similar

https://www.beatravelbuddy.com/

2.5 How your app is different

People who would like to travel together can construct a travel plan together in this app.

3 Proposal3

3.1 Problem Statement + Motivation

When studying a course, it is often helpful to ask questions and have discussions with other students or course faculty. The online discussion platform makes it easier for the discussions at any time and place. It can help students to solve the problems even though they cannot attend the office hours.

3.2 User problems you are solving

Students need online forum or platform to ask questions and discuss with others and course staff.

3.3 Basic interactions your app will support in service of goal

1. Post questions to either instructors only or to all students.
2. Posting questions can be anonymous.
3. Students can answer questions, upvote answers, and make comments.
4. Questions and answers can be edited or deleted after posting.
5. Questions can be posted in different categories, which are set by the instructors.
6. Users can follow a question, so when the post is updated, they will get notifications on the home page.
7. The app would show how many posts the students have participated in and a leaderboard of students who engage in most events.

3.4 Other apps that are similar

piazza, campuswire

3.5 How your app is different

Students can follow a question so that they can get updates conveniently. The leaderboard can encourage students to participate in more discussions.