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CMPT 412 Assignment 1

Design Topic:
Computer Science Forum

Motivation:
There are massive academic questions which are produced by computer science students/beginners in University of Saskatchewan. Some of these questions are pretty simple (e.g. data structures, language issues, etc.), and some of questions are challenged (algorithm designs, complexity calculations, etc.). The questions which students asked depends on which CS classes they took. Computer Science students may solve their problems by several ways: asking their professors or teacher assistants by email or face to face, talking with their classmates or friends, and finding sources online. However, the solutions above are limited by locations (students/beginners may be at home), schedules (professors may not be able to reply immediately), and situations (online source may not fit the questions, or students may be shaming to asking question to classmates). Computer Science Forum can solve problems above by sharing ideas, asking questions, and answer the questions. Assume you were a student/beginner, you may know the question that other student/beginner asked, and others may know the question you asked. In this case, students/beginners could ask their questions in the forum, and these questions could be answered by other students. Also, every post will be stored in the forum, so the student could directly search them if the questions have already been asked. By using the forum, students could address their problem, and student could help each other by using what they know.

Intended Audience:
Computer Science students

Main Engagement Strategies:
Searching post without login (Usage Lifecycle Step: Unaware -> Interested)
> User could see or search the contents which other users posted without login

Login or Signup: (Usage Lifecycle Step: Interested -> Frist-time use)
> User could easily login by using their Facebook account, Google account, U of S account, or email address. After they login, they could ask questions, answer questions, share contents, 2and rate others.

Asking Questions: (Usage Lifecycle Step: First-Time Use -> Regular Use)
1. When users got a problem (not assignments), they could post their question on the Forum
2. The questions posted can be anonymous if the students want it

Answering problems: (Usage Lifecycle Step: First-Time Use -> Regular Use)
1. When users see questions posted they already known, they could answer it by replying the question posts
2. The answers replied can be also anonymous if the students want.

Sharing contents: (Usage Lifecycle Step: First-Time Use -> Regular Use)
1. If students would like to share what they know, they could post the contents on the Forum
2. The shared contents can be also anonymous if the students want.

Following System: (Usage Lifecycle Step: Regular Use -> Passionate Use)
1. The forum supports user to follow each other. If two users both followed each one, they will become friend in the forum, and then they could send the message to each one. (Reputation)

Rating System: (Usage Lifecycle Step: Regular Use -> Passionate Use) (Sense of efficacy)
1. Every question can be rated by other users (useful or not)
2. Every answer can be rated by other users and user who post the question (best answer or not)
3. Every user who participate the post can be rated (by star, 5 stars is highest)

Personal Profile Manage: (Usage Lifecycle Step: Regular Use -> Passionate Use) (control, ownership, and uniqueness)
1. Users could manage their own personal file in the forum. For example, they could upload their icons, write where they are from, self-introductions, ages, sexes. (For identity themselves)
2. Everybody can see the user profiles which are not anonymous, and the profiles will also show the question rates, answer rates, and how many stars the user get.

Storyboard Usage Flow:

To see the storyboard via the link below:
https://drive.google.com/drive/folders/1fVxaRfkev3IVtoKUK2RuW3Us_FyyVUol?usp=sharing