Team 15 Project Charter

Team 15 Members:
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Problem Statement:
It's difficult for Purdue students studying in the STEM field to meet each other, whether they're looking for peers in the same classes or another student with a particular skill set. With our web application, we aim to help Purdue students find others who match a certain professional or academic criteria. Users will be able to communicate via different conventions such as private messaging or through a public forum in order to find mentors or partners for classwork and side projects. What makes this service unique is the fact that we are able to filter and match on very specific and relevant criteria such as what users are enrolled in a certain class, or have a specific technical skill.

Project Objectives:
1. Develop a web application that allows students to search and view one another's professional/academic profiles based on a certain criteria that they set.
2. Authenticate users through their Purdue email to make sure that it is the Purdue students signing up.
3. Allow users to obtain contact information of other students who have signed up.
4. Let users automatically search for others based on filters such as name, current classes, completed classes, technical knowledge (i.e. checking a filter for Java would return students who listed it as a skill)
5. Provide users with an manual search interface to find other students based on a certain criteria such as name or skill. (i.e. typing Ter.. returns students whose names begin with those letters)
6. Design database schemas to fit the needs for this project using MySQL.
7. Allows each student to be a part of a forum related to different interests.
8. Allow students to be able to create posts and view/comment on posts made by others.

Stakeholders:

Users: Typical users would be Purdue students that want to find and communicate with others that share the same interests or knowledge in certain areas, whether it's for help for school or partnership in a side project.

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Deliverables:
- A web application with a straightforward and easy to navigate UI created using Javascript, React, Java, and MySQL.
- Functionality to allow users to sign up and authenticate using their own Purdue email address.
- Ability to create and search for profiles that contain information such as a user's personal bio and skills.
- An online forum that allows users to post and answer questions.
- An API for interfacing with our database, storing and retrieving user information as well as performing identity authentication.
- A MySQL database composed of multiple schemas to record and store user profiles and needed information.