

## **Product Backlog**

Project Name: Purdue Course Assistant

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### **Problem Statement:**

While myPurdue and advisors could help students look up for courses and professors, they are not able to provide more appropriate advice for students to register courses. Our program intends to offer students another way to be familiar with courses and professors before registration. Users will have an overview of class based on reviews from other students and sample questions.

### **Background Information:**

Many Purdue students are struggling while registering courses since they are not familiar with the course content. Purdue Course Assistant(PCA) helps boilermakers to optimize their course schedules and provides valuable course advice.

Presently, students have myPurdue to look up for courses and advisors to help scheduling. However, the information provided by myPurdue and advisors is too limited for students scheduling based on their own will. Purdue Course Assistant would include the information from myPurdue and meanwhile, it allows comments and feedbacks from student.

For the issue that myPurdue does not provide enough information about course's contents, Purdue Course Assistant provides pre-test system that lets the student understand what topics are covered and what kinds of problem they are able to solve after studying. Besides, myPurdue can not tell course's workload so that students cannot schedule properly. PCA's tag system allows students to know how busy the course will be and they are not going to be overwhelmed because of a terrible schedule.

### **Requirements:**

#### **Functional:**

1. As a user, I would like to create an account.
2. As a user, I would like to change the password.
3. As a user, I would like to find my password or username back if I forget them in a secure manner.

4. As a user, I would like to have an organized user interface.
5. As a user, I would like to view any information I added to my profile.
6. As a user, I would like to have my own profile page.
7. As a user, I would like to be able to change the background.
8. As a user, I would like to be able to add the courses to my profile that I have taken before.
9. As a user, I would like to check the official information of undergraduate courses.
10. As a user, I would like to view courses in categories of departments.
11. As a user, I would like to mark courses to be considered later.
12. As a user, I would like to be able to easily view the courses I marked.
13. As a user, I would like to check the official information of professors.
14. As a user, I would like to view all professors information who have taught a course before.
15. As a user, I would like to rate each course.
16. As a user, I would like to write comments for each courses.
17. As a user, I would like to see the rating and comment of each course.
18. As a user, I would like to tag each course with specific characteristics.
19. As a user, I would like to see all the tag of each course.
20. As a user, I would like to get recommendation courses based on courses history and interest.
21. As a user, I would like to view courses related to a tag.
22. As a user, I would like to take a pre-test for each courses and get feedback.
23. As a user, I would like to view some frequent asked questions.
24. As a user, I would like to receive E-mail notifications.
25. As a user, I would like to view the capacity of a course. (If time allows)
26. As a developer, I would like to manage user's account.
27. As a developer, I would like to delete user's account.
28. As a developer, I would like to reset user's password if user has request.
29. As a developer, I would like to collect the rating for each courses from user.
30. As a developer, I would like to organize the comments and tags.
31. As a developer, I would like to grade the user's pre-test.
32. As a developer, I would like to set deferrent default language. (If time allows)

**Non-Functional:**

1. We must be able to run this app on an Apple device.
2. As a user, I would like to have a simple and clean UI so that I can understand how to use it easily.

3. As a user, I would like to get course information in a short time after sending the request.
4. As a user, I would like to protect my personal information(such as courses taken in the past, courses preference in the future, etc.).
5. As a user, I would like to edit the UI as my preference.
6. The server must be able to handle 50 requests at the same time.
7. Be able to connect with professor's homepage and course wiki.
8. As a developer, I would like it to be easy to read the source code.
9. As a developer, I would like to have a readable API.
10. Be able to connect with MyPurdue System.(If time allows)