

# MyPQue - Product Backlog

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## **Problem Statement:**

Currently in career fairs, companies have long lines of students wanting to talk to them. Students attending career fairs spend most of their time standing in these lines rather than networking and talking to potential employers. While scheduling systems exist, none have been used to solve this problem. Our product will aim to tackle this issue by creating virtual queues, which will reduce the time students spend standing in line through various optimization techniques.

## **Background Information:**

The days of waiting in long queues to talk to recruiters at career fairs are over. Our system will be used by students to schedule themselves in company queues virtually where optimization techniques will reduce their waiting time to the minimum. Also, recruiters will use our system to keep track of students they have talked to and who they will converse with next.

Currently there is no such application or system in existence which solves the problems faced by students and recruiters in career fairs. Career fairs are a big part of every student's university experience and we aim to make the whole experience much more efficient and better. Our system will enable students to talk to more companies in less time and thus have more career opportunities and options than before.

## **Requirements (Backlog)**

### **Functional:**

1. As a user, I would like to be prompted if I'm a student or a recruiter.
2. As a student, I would like to login using my purdue credentials.
3. As a student, I would like to be able to see the list of all the companies.
4. As a student, I would like to be able to see each company's profile
5. As a student, I would like to be able to filter companies based on my class standing.
6. As a student, I would like to be able to filter companies based on my major.
7. As a student, I would like to be able to upload my own resume.

8. As a student, I would like to rank the companies by preference.
9. As a student, I would like to be able to see my current meeting schedule.
10. As a student, I would like to be able to cancel my meeting appointment.
11. As a student, I would like to be able to edit my profile.
12. As a student, I would like to be able to filter companies based on internship or full time opportunity.
13. As a student, I would like to be able to filter companies based on visa requirements.
14. As a student, I would like to be able to get an estimate of the wait times in different queues
15. As a recruiter, I would like to be able to put my company's login credential in the system.
16. As a recruiter, I would like to login into to the scheduling system.
17. As a recruiter, I would like to be able to see the queue of students.
18. As a recruiter, I would like to be able to upload my company profile
19. As a recruiter, I would like to be able to edit my company's profile.
20. As a recruiter, I would like to be able to dequeue students.
21. As a recruiter I would like to be able to see the resume of the student.
22. As a recruiter, I would like to be able to choose the time estimate for talking to a student.
23. As a recruiter, I would like to be able to mark certain students.

## **Non Functional:**

### **Architecture and Performance**

We plan to develop a web application. We will use React, javascript library, for building user interfaces. Building an application using React makes it easier for us to share application logic between React Web app and React Native app, if in the future we will decide to develop a mobile app. As a data store we will use MongoDB, next-generation database (NoSQL) that lets you create applications never before possible. We will use Python for backend development. Python is a language that uses a simpler syntax than PHP and it's well tested. And, finally, Flask will be used as a web application framework. Flask is a micro web framework written in Python.

### **Usability**

The interface of the application should be quick and easy to navigate, from both the recruiters' and the students' points of view so as to actually so as to actually reduce the waiting times.

We want to make sure that the application is accessible on various screen sizes - phones and tablets. Both students and companies should be able to filter according to their requirements and skillsets.