CIS 192 Project Proposal:

Group Members:

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General Idea and Goals:

The idea is to make a Web App that serves as a platform for Performing Arts Organizations at Penn to sell their tickets online and for students to be able to buy any performance group's event tickets online through a single location. While major campus events have dedicated online ticket sale measures, most performance tickets are still sold by hand on Locust walk, while this does the job, being able to sell tickets online would serve a need for both the organizations, and the students. As stated earlier the service will be a web app with two fronts, one for students to buy tickets and learn more about the events, and another for organizations to manage their ticket sales and possibly have access to some rudimentary analytics. Possible names for the app could be PPTX (Penn Performances Ticket Exchange), PEP (Penn Events Portal), Penntix, or Events@Penn.

Specific Goals:

The App would be split into two sides, users, and groups, with goals being present for each one.

User Interaction Goals:
- Account creation/Login
- Allow a student to buy a ticket(s)
- Collect payment from student (a third party API would be integrated here)
- Allow users to see who else has purchased tickets (Facebook friends maybe)
- Allow a user to specify a place/time for ticket delivery if requested
- Allow user to rate performances after they finish (5 star system)
- Filter/Search Feature for students to look for a specific cultural event, or specific time, etc.**

Organization Interaction Goals:
- Account creation/Login
- Allow an organization to make a posting
- Pay an organization ticket sales that have been collected (Use API here again)
- Allow organizations to view their history of past online ticket events handled by the app
- Allow organizations to set ticket sales goals, and provide a success or fail rating for each event

- Possibly provide rudimentary analytics to organizations on who is attending events (Class Year, School, Gender, etc.)**
- Have a weekly leaderboard for which event/organization has sold the most tickets

The features with asterisks are ones that we would like to have but may not get to, depending on how much time building the rest of the app takes, ideally we will create the most full functioning version of the app possible.

Division of Labor:

Nitin: The user facing side of the app and related features.

Greg: The organization facing side of the app and related features

Each of us will also help the other and depending on which features get finalized might split the tasks up slightly differently so that each of us builds an equal number of features for the app.

Packages and Other Information:

Flask
Flask-login
SQLalchemy