CEN 4090L: Software Engineering Lab

Florida State University

Please use this template to write your project proposal. All the text in italic should be removed from your final submission.

The project needs to be <u>***original***</u> ***and*** <u>***complex***</u> ***enough to justify and reflect the intensive work of 4-5 people for about 5-6h/week per person, over the course of about 3 months.*** *Mobile apps, games, web apps are encouraged. Some examples of previous project proposals can be found on Canvas. Mind that this project is meant to stretch your comfort zone and that you may need to learn new technologies, programming languages, APIs, platforms, etc. on your own to be able to deliver a good project.*

IMPORTANT NOTE: *Your team may be requested to schedule a meeting with the instructor and/or TAs after the proposal is due, in order to answer clarification questions or in order to get feedback and/or adjust any aspect of your project. Only after everything is cleared, you get the go-ahead for the project.*

1. **Project title**

    ProfFessUp

2. **Brief overview of what you are proposing**
    An implementation of ratemyprofessor that includes features such as filtering my school, course, major, and professor. Reviewers can be anonymous, or depending on the scope may be able to create an account to review (later addition if at all). If possible, loop through fsu faculty pages and read in the names and add any not already in the system automatically. Professor pages prompt users to a list of other recommended professors based on things like workload, multiple choice v. short response, attendance, textbook required, extra credit and similar things.

3. **Motivation**
    We want to develop this project to help make the process for choosing classes easier and more efficient for students by utilizing a recommendation filter based on the way the student prefers to take classes.

4. **Features to be implemented and types of users**

List the features you will implement and a list of types of users/roles if you plan to support different types of users (e.g., regular user, admin, student, coach, etc.) and list the features that each role will be able to access. <u>Be as detailed as possible</u>.
USERS:

student/reviewer user - can review anonymously. Users can create and list professors and CRUD their own reviews.

Admin user - can CRUD professors and reviews.
FEATURES:

Professors: overall rating, overall workload, multiple choice v. short response, attendance, textbook required, extra credit and similar things, major, courses, school, reviews(inheritance or foreign id).

Reviewers: reviews(inheritance or foreign id), reviewer rating, name.

Reviews: rating of workload, multiple choice v. short response, attendance, textbook required, extra credit and similar things, major, course, school, the text review.
Interface:
Designed by school colors

5. Risk / Challenges
List any factor that can prevent you from implementing all the features and completing your project.

A challenge would be creating our own database for our functionality and finding a good API to work with our concept. We would start the project without any data unless we incorporate already existing data utilizing an API/scraping for RateMyProfessor or scraping the FSU evaluation website.

6. Existing related projects
Do some research to find out if similar applications already exist. If there are similar applications, please mention them (put a link or reference to where you found them) and mention how your application will be different/better than existing projects.
https://www.ratemyprofessors.com/
https://github.com/whoanuragverma/ratemyprof
https://www.uloop.com/

7. Intended platform / programming language
(e.g., iOS, Android, Web, Python, C++, Java, JavaScript, etc.)
Python or C++ (Would it be better to use Python or C++ for this project?)
- *Typescript (Use React for the framework)*
- *IDE (Jetbrain) or VS*

8. Third-party libraries / APIs to be used
Please mention any external Web service, library, database, web server, web container, application server, specialized hardware, etc. that you plan to use in your project, to the best of your abilities.
Possibly https://pypi.org/project/RateMyProfessorPyAPI/
Possibly PyreBase or MongoDB

9. Team members, expertise, project responsibilities, and team organization

Margaret Rivas - (MER20C)- Python, C++, HTML, CSS, SQL
Jada Doby (jdd20a)- Java, C++, Python, SQL
Laura Obermaier (lao21) - C++ .MAUI, HTML,
Marija Travoric (mt20e) - C++, Python, HTML, SQL
Jeyma Rodriguez(jdr21d) - C++, C#, HTML, MAUI

We will divide tasks based on skill/interest. At the moment, we want all members to participate in both frontend and backend development. We plan on having weekly meetings either online through Discord or in-person at Dirac Science Library to discuss our progress and adapt the project as well as problem-solve together. We will communicate through a text message group chat and possibly discord.

List the team members, their FSU IDs, and each member's expertise, such as the programming languages, databases, mobile programming, platforms, APIs, etc. each is comfortable with. Mention who will do what during the project. Mention also how your team will be organized (e.g., will you have a manager in charge of delegating tasks or will you decide together based on interests/skills?), what will be your communication like (will you use Slack, Canvas or something similar to communicate? How often will you meet in person?), etc.