CS Tutoring Web App

Background:

With students majoring in CS, many of these students have either weak or no programming background, and often struggle when trying to work on their programming assignments for the first time. This frustration can lead to extra stress and can discourage students from continuing their studies. For now, students primarily seek help through office hours and TA sessions, which may not be adequate for students that would benefit from 1:1 assistance. Therefore, I want to create a web app that would become the primary method for UC Davis students to seek tutoring assistance or homework help.

Objective:

Create a user-friendly web app that can connect students and tutors based on class experience, grade received, professor taken, and previous rating from professors/students. Team and the client will collaborate to design and implement both frontend and backend of the app.

What is the differentiating factor?

- No other tutoring apps tailored to school specific courses. Focusing on UC Davis allows us to better match tutors with students based on their coursework, grades, and general tutoring interests.
- Organizing tutoring sessions via an app would allow us to keep track of tutoring performance (ratings), and be able to help students find the best tutors for the course, through time available, tutor reputation, and tutor ratings.
- Simple/friendly UI to start "connecting" to tutors

Deliverables:

- Design document, including the determination of the technology and associated benefit analysis
- Prototype of the running app, with some or all of the proposed functionalities and any additional features, including all source code
- Unit test plan and result

Contact:

Expect to meet with the client once a week for around an hour, but flexible depending on students' progress.

Note: Client will retain full ownership of the application is delivered.