

# Project Proposal

TutorBot - Client

## Group Membership

### UX

Neha Lalani

- Most confident in Java, some python, some c, html, css
- My goal this semester is to learn how UI works and design and develop something that is useful and creative. I would like to learn more about how user interface works and how it is developed. I want to also do some research relating to UI and understand better how good UI is used and created and the back-end developing process that corresponds to it.

Lisa Walkosz-Migliacio

- Skills: UI React
- Tasks: Create a UI interface for the input and output of questions and answers from the Chatbot, help other team members learn how to code in TutorJS.

## Project Goals

We have several ideas to implement this semester continuing the work of both TutorJS and Chatbot. Since we have 2 people on this team, we'd like to categorize our time for UI. We will look over the UI of other Chatbots to get an idea of the main function they provide to users, we will plan a UI flow how that interaction will occur, then implement it inside of TutorJS.

Here is our best estimate of the proposed timeline for our project this semester.

- Week 1-3: Project planning, team building, proposal drafting
- Week 4-7: Plan a UI flow for how a user interacts with TutorJS and research other Tutor Bot and Chat bot ideas.
- Week 7-10: Write the UI Chatbot integration.
- Week 10-15: Hook up new UI to new API changes and test.

## Project description

**Problem to be solved:**

Students learning signal processing concepts at the same time the math and logic to code a solution to represent those concepts is very hard.

**Proposed Solution:**

We propose using the interface of TutorJS where a student can insert code into a code editor and validate if the problem is correct with executed test cases, that adding contextual information from the textbook in the form of a questionable Chatbot can provide the answers to help solve the DLTI equation problems.

Allow students to ask questions within TutorJS, and then display the Chatbot's answer (based on the textbook data) back to the student.

**Tools:**

All code will be put into Georgia Tech's Github in the [TutorBot](#). We will bring in dependant code from last semester's work. We will expand on the code adding to the client-side application. Our project management will also be done in Github using the Issues and Project tools.

Specifically, Javascript will be used to program TutorJS.