

## Project Proposal Components [15 pts]

Write up a proposal file (in the file proposal.txt, or .docx, or .pdf) which should include the following components:

- **Project Description** [2.5 pts]: The name of the term project and a short description of what it will be.

TP Name: see\_you\_soon

Description: My project attempts to recreate and (improve the UI of) When2Meet, an existing web tool that attempts to help groups of people schedule a common time for events.

- **Similar projects** [2.5 pts]: A 1-2 paragraph analysis of similar projects you've seen online, and how your project will be similar or different to those.

When2Meet (<https://www.when2meet.com/>)

When2Meet Redesign Prototype (<https://www.youtube.com/watch?v=Dnwl-f4r4U4>)

When2Meet UI/UX Case Study (<http://kiera.design/when2meet.html>)

When2Meet is the original product that my project will be based on. I plan to maintain most of its basic features, such as creating an event, user accounts, click and drag availability input, and group availability viewing. I plan to add suggestions for scheduling, persisting user accounts (instead of making a new one for each event), and a more aesthetically-pleasing UI. For the latter, I may refer to the case study for insights on how to redesign When2Meet's UI.

- **Structural Plan** [2.5 pts]: A structural plan for how the finalized project will be organized in different functions, files and/or classes.

Functions:

- inputAvailability – translates user's click and drag on grid to availability. Inputted availability will toggle to be either unavailable or available based on existing grid value.
- textBox – takes input in a text box
- appStarted, mousePressed, keyPressed, mouseDragged, mouseReleased, drawScrollBar, drawDashboard, drawScheduleGrid, redrawAll

Files:

- File to store user accounts
- File to store active events
- File to store past events

Classes:

- Event – event name, either range of possible dates OR days of the week, possible times, invited users, user availabilities, user priority levels
  - inviteToEvent – search for users by username or email address
  - suggestTime – finds and suggests best meetings times based on users of highest priority first
- User – username, email, password, invited events, my events, past events, time zone

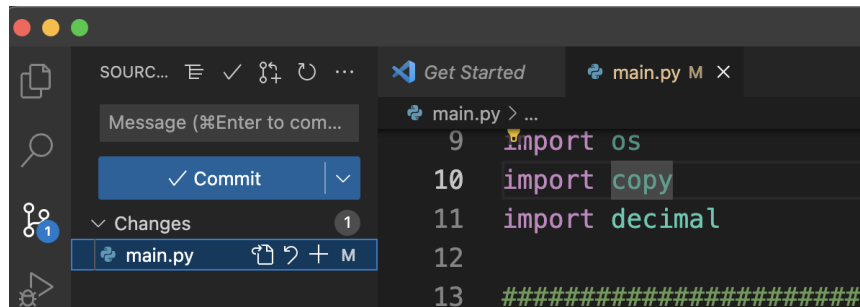
- Availability – stores availability per user per event
- **Algorithmic Plan** [2.5 pts]: A plan for how you will approach the trickiest part of the project. Be sure to clearly highlight which part(s) of your project are algorithmically most difficult, and include some details of how you expect to implement these features.
  1. Clicking and dragging over the schedule grid to toggle availability
    - Create a grid, similar to in Tetris.
    - Draw grid.
    - Draw labels (days/dates/times) of grid.
    - Check mouseDragged, mouse released, and current availability of each 15-min unit of the grid to decide what changes visually upon clicking and dragging.
    - Correspond to time based numerical availability
  2. Scheduling suggestions algorithm
    - Maximize available users of priority level 1. Continue to last priority level. If there are equally good times, display them all. Have option to display best time on day.
- **Timeline Plan** [2.5 pts]: A timeline for when you intend to complete the major features of the project.
 

By TP1: users, events, scheduling grid drafted.

by TP2: User dashboard, group data aggregation, scheduling suggestions drafted.

by TP3: video demo editing and project UI polished.
- **Version Control Plan** [1.5 pts]: A short description **and image** demonstrating how you are using version control to back up your code. Notes:
  - **You must back up your code somehow!!!**
  - **Your backups must not be on your computer** (ideally, store them in the cloud)

I plan to use Github integrated with VS Code for my version control. Using this, I can add and commit changes to a private repository on Github from right inside VS Code.



- **Module List** [1 pts]: A list of all external modules/hardware/technologies you are planning to use in your project. Note that any such modules must be approved by a tech demo. If you

are not planning to use any additional modules, that's okay, just say so!

None as of yet.

**TP1 Update:**

No design changes made.