Milestone 2

<u>Features:</u>

- Calendar display -
    - Displays info from scheduling algorithm
        - Shows preferential selections first
        - Displays non preferred selections in red after
        - Sort option for number of credits or heavy on certain days
            - (someone may select 25 credits of classes they want and selections between 12-21 may be available)
            - (Someone may prefer 3 days a week vs 2 days a week and may prefer most classes to fall on a certain day, check classes on odd/even days)
- Login -
    - Individual page or pop up box
        - username/password authentication
            - SQL Database
        - Forgot username or password function
            - Security measure
                - Allow user to change password stored in SQL database
- Pull class info from CU classes api
    - Make API requests on the CU scheduling site to pull possible class options and times for the user to select for the algorithm.
    - Parse json response
- Scheduling algorithm -
    - Takes user selection and calculates possible options that are compatible
        - Times for options will not overlap.
        - Option to add blackout times/days to limit options created for user
            - Outputs information to calendar display for user to examine in an enjoyable format
- Display available classes -
    - Show classes available for the semester
        - Allow user to search for classes by class type or number for ease of searching
        - Filter by type of class i.e. arts and humanities science, other important filter options like US perspective or global perspective credits.
        - Show course name applicable to each class
        - Show course descriptions applicable to each class
        - Show if course requires additional components (labs/recitations/etc)
        - Show professor options

- - Link to rate my professor for students to easily check how their peers feel about the professor
- Cart for preferred classes
  - Connect to available classes page.
    - Allows user to store a selection of classes which can be submitted into the scheduling algorithm.
  - Option to add classes into the cart
    - Add class without specific section/time
  - Option to delete classes in the cart
  - Option to edit section/time of classes in the cart

- Preferences -
  - Have the ability to select items that must be avoided when calculating the schedule
    - Time blocks
    - Certain days of week
    - Overall dates
    - Professors
  - Have the ability to select items that should be prioritized when calculating the schedule
    - Time blocks
    - Certain days of week
    - Overall dates
    - Professors
- Rate My Class Page
  - Pulls info from SQL database
  - Allows users to access a form to input their own peer reviews
  - Allows users to search classes and see how peers felt the class was in the general respective areas
    - Based on difficulty
    - Enjoyment
    - Skills gained
    - Workload
- Rate My Class Functions
  - Allows users to input reviews of classes
    - Based on difficulty
    - Enjoyment
    - Skills gained

- ● Stores info in a SQL database for the display page to access
  - ○ Security check
    - ■ Check if user is or was a student
    - ■ Check if user took class in the past
      - ● Probably not due to CU security concerns but worth checking

Requirements:
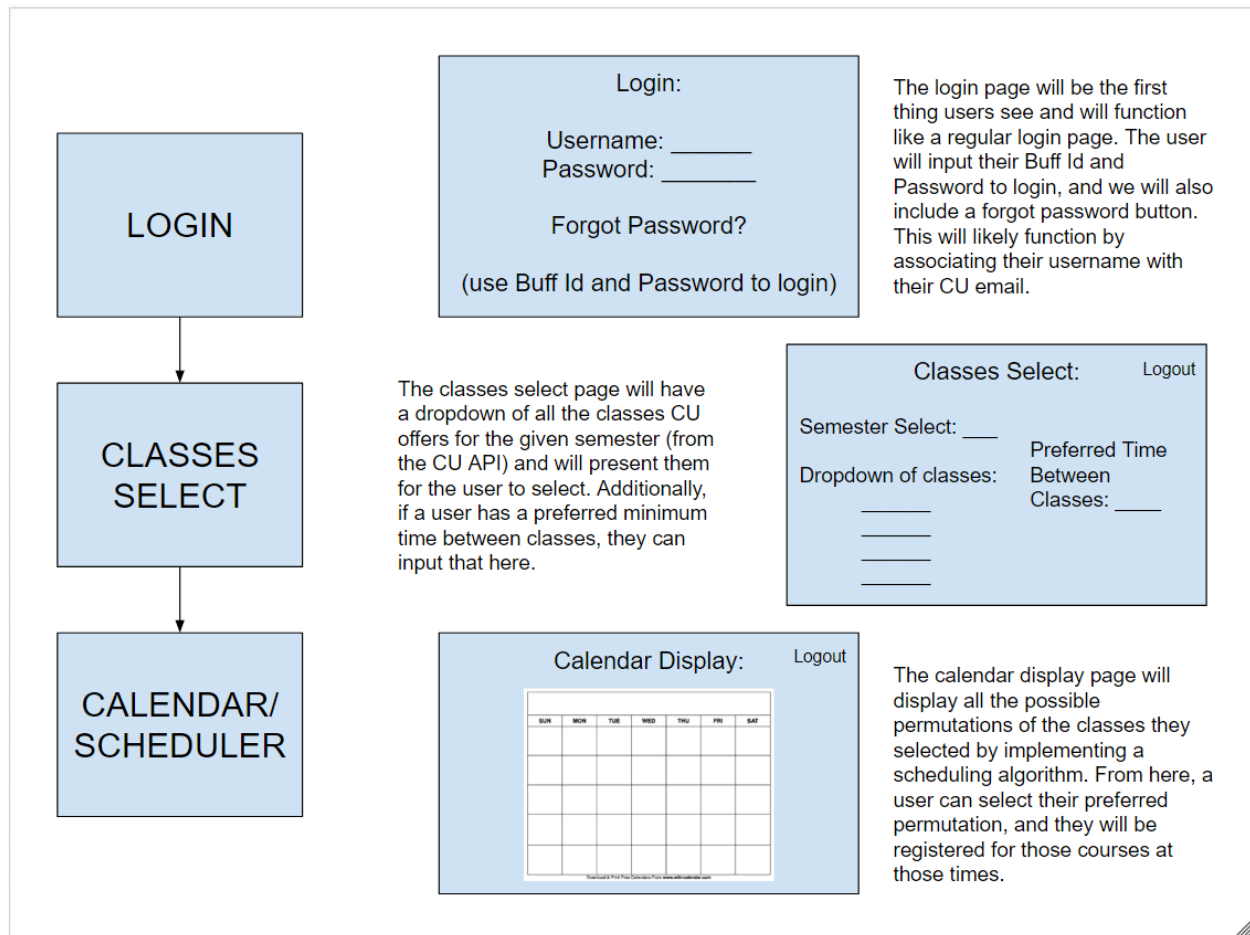Listed on Kanban board:
https://github.com/cub-csci-3308-spring-2022/csci-3308-spring22-015-01/projects/1

Project Plan:
https://github.com/cub-csci-3308-spring-2022/csci-3308-spring22-015-01/projects/1

Wireframe & Design:

LOGIN

Login:

Username: _____
Password: _____

Forgot Password?

(use Buff Id and Password to login)

The login page will be the first thing users see and will function like a regular login page. The user will input their Buff Id and Password to login, and we will also include a forgot password button. This will likely function by associating their username with their CU email.

CLASSES SELECT

The classes select page will have a dropdown of all the classes CU offers for the given semester (from the CU API) and will present them for the user to select. Additionally, if a user has a preferred minimum time between classes, they can input that here.

Classes Select: Logout

Semester Select: ____

Dropdown of classes: Preferred Time Between Classes: ____

_____
_____
_____
_____

CALENDAR/ SCHEDULER

Calendar Display: Logout

SUN	MON	TUE	WED	THU	FRI	SAT

Download & Print Free Calendars From www.wikicalendar.com

The calendar display page will display all the possible permutations of the classes they selected by implementing a scheduling algorithm. From here, a user can select their preferred permutation, and they will be registered for those courses at those times.

<u>Individual Contributions:</u>
Features: Solomon and Gabe
Requirements: Owen
Project Plan: Tristan
Wireframe: Grayson