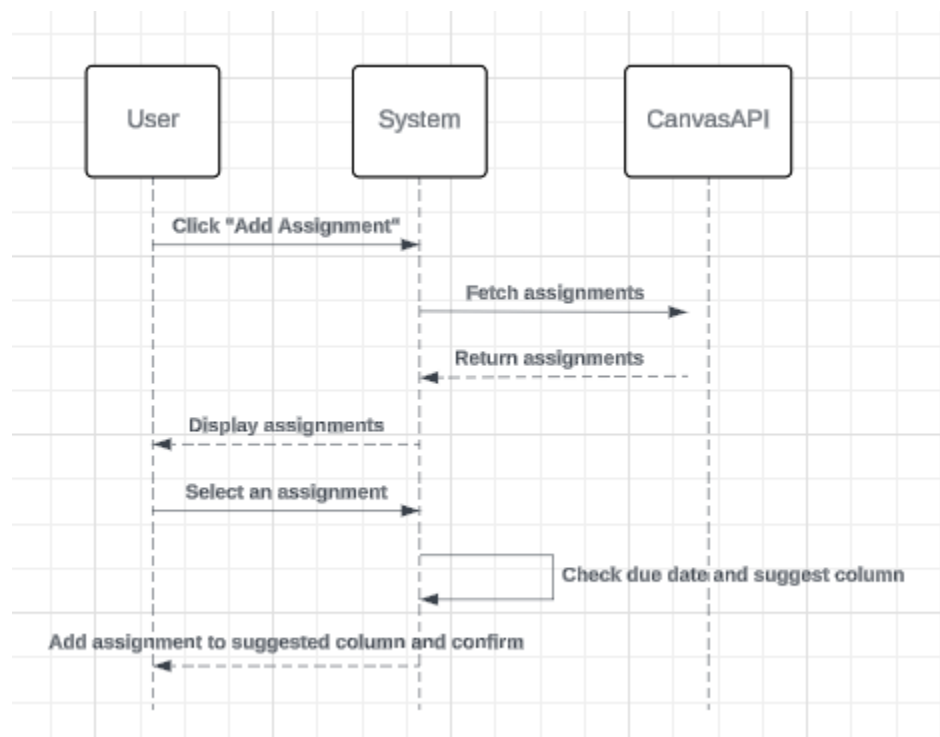Requirements analysis (5 use cases and diagrams)

Canvas Kanban Board

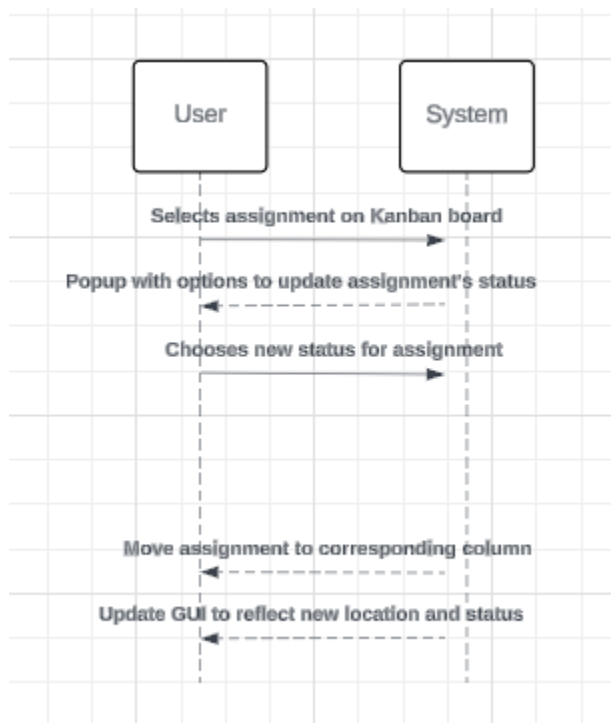Justin Ridenour, Joshua Davis, Torrin Conrath, Ken Johnson

Use case 1: Add Assignment to Board

- Precondition
    - User must provide access token to their canvas account so we can utilize the canvas API to make changes and gain information through requests.
- Main Flow
    - User goes to select the 'add assignment' button and then a list with all assignments pop up (closest due date is displayed first)
    - User clicks on their assignment of choice and based off the due date the system provides a suggested column (backlog, doing, and done).
- Subflows
    - User clicks the required add assignment button
    - System checks the due date and if the due date is more than a week away then place in backlog and if within a week it is marked as 'Doing'.
- Alternative Flows
    - User could also click our automatically add assignments button to add every assignment to their board at once
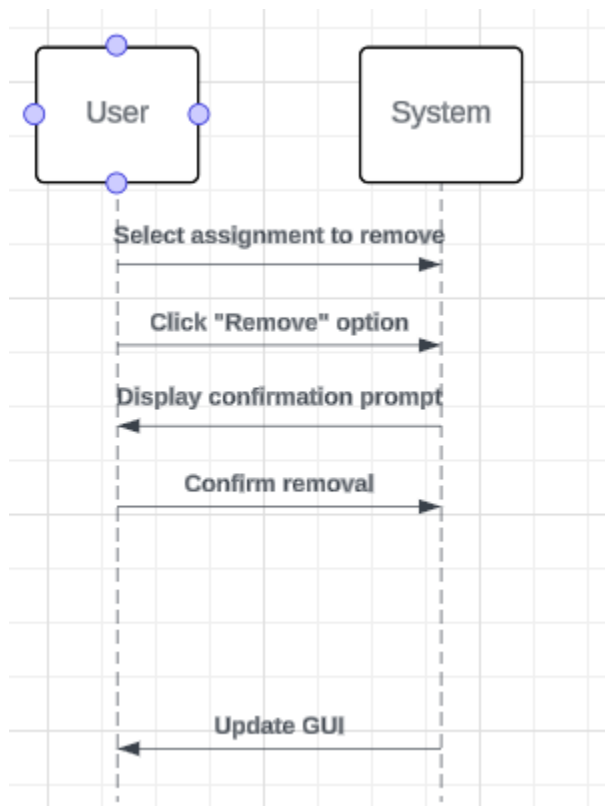
Use Case 2: Update Assignment status

- Precondition
    - User needs to have at least one assignment added to the board
- Main flow
    - Assignment selected on board and a popup appears to update its status. The system moves the assignment to the correct column
- Subflows
    - User can drag and drop assignments from one column to another and the system needs to be able to detect that and change its status in the system
    - System updates status and also updates GUI
- Alternate flows
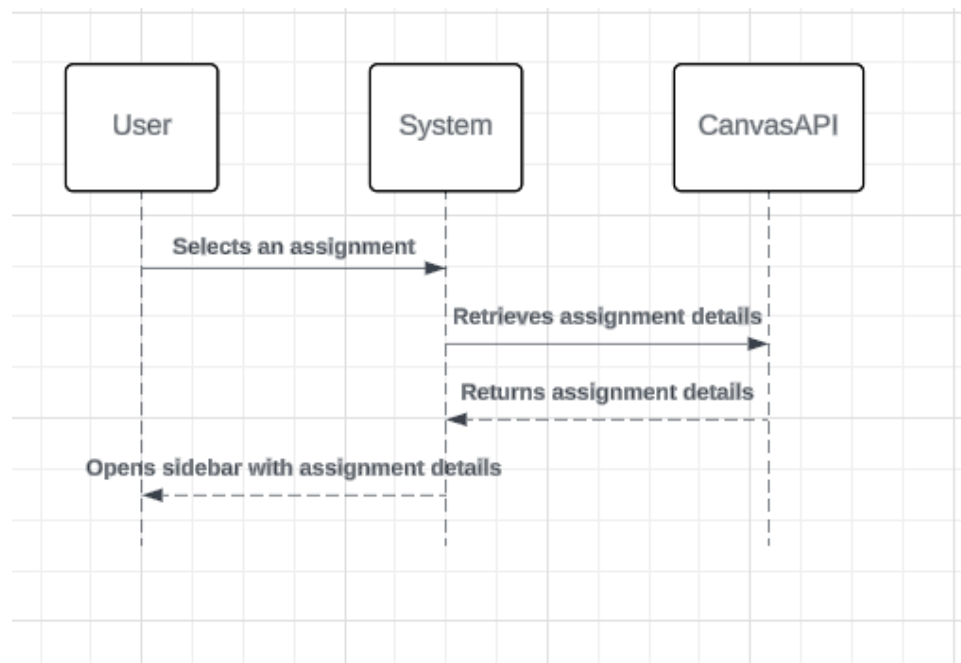   - Assignment not submitted but marked as done (alert user)

Use Case 3: Remove assignment from Kanban Board

- Precondition
  - User needs to have an assignment added to the board
- Main flow
  - User selects assignment, user chooses to remove, system confirms action, system removes assignment from board
- Subflows
  - User clicks the remove option after they click on the assignment they wish to delete
  - System asks use to confirm removing the assignment (to avoid accidental deletions)
  - When confirmed system removes assignment from board in both the back end and the GUI
- Alternate Flows
  - User cancels removing when confirmation prompt appears when they attempt to delete an assignment

Use Case 4: Viewing details of an assignment

- Precondition
    - ○ User needs to have one or more assignments added
- Main Flow
    - ○ Assignment selected by clicking to view details. System displays detailed info about the assignment (due date, description, status, etc)
- Subflows
    - ○ User selects an assignment by clicking it
    - ○ System opens sidebar with all the required details pulled from canvas
- Alternate Flows
    - ○ Details fail to load (network error). System then will alert the user and prompts them to retry

Use Case 5: Sync kanban board (automation of adding)

- Precondition
  - User has to upload their API token to the app before they can do this
- Main Flow
  - User wishes to sync to update assignment statuses and due dates, system gathers info through API calls to get most recent information and updates the board
- Subflows
  - User clicks 'sync with canvas' button on the GUI
  - System makes API calls to get all assignments, due dates, and statuses from canvas and updates GUI accordingly
- Alternate flow
  - System gets an error while syncing (network issues)
  - Notifies the user of this error and offers a retry button through a popup