

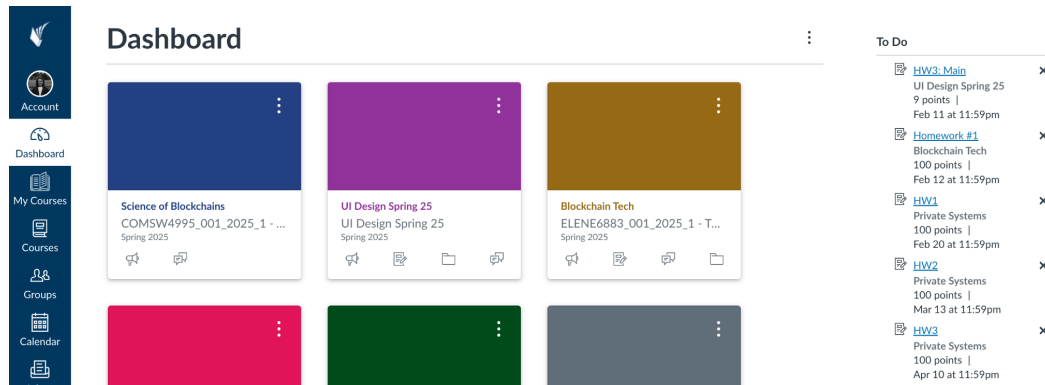
## Homework 3: User Models and Java Script

### Problem 1: User Goals

1. One of the primary goals of Courseworks is to allow students to upload assignments. Starting from <https://courseworks2.columbia.edu/> what are the subgoals needed to complete that goal. For each stage, take a screenshot, give the stage a name that describes that subgoal, and name one or two low-level actions that are critical to completing that subgoal.

*Note: there is no exact number of subgoals. As a general heuristic, usually each page has one subgoal. But sometimes a single page has two subgoals. Use your best judgement. Talk to a TA if you're not sure.*

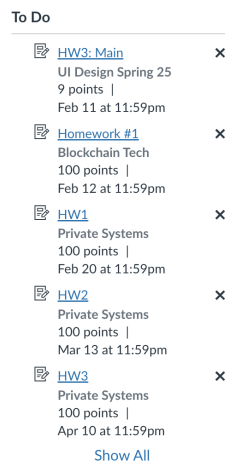
### Stage 1: Open Courseworks



#### Low-Level Actions:

- 1) Type <https://courseworks2.columbia.edu/>
- 2) Press enter

### Stage 2: Choose Assignment



### Low-Level Actions:

- 1) Look for the assignment in your To Do list
- 2) Click on the correct assignment

## Stage 3: Start Assignment

≡ UI Design Spring 25 > Assignments > HW3: Main

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Spring 2025

HW3: Main

Start Assignment

Home

Ed Discussion

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Assignments

Due Tuesday by 11:59pm

Points 9

Submitting a file upload

File Types html and pdf

No additional details were added for this assignment.

### Low Level Actions:

- 1) Look for the “Start Assignment” button
- 2) Click on the “Start Assignment” button

## Stage 4: Open File Selection

HW3: Main

Due Tuesday by 11:59pm Points 9 Submitting a file upload File Types html and pdf

No additional details were added for this assignment.

File Upload

Upload a file, or choose a file you've already uploaded.

Choose File

No file chosen

+ Add Another File

[Click here to find a file you've already uploaded](#)

Comments...

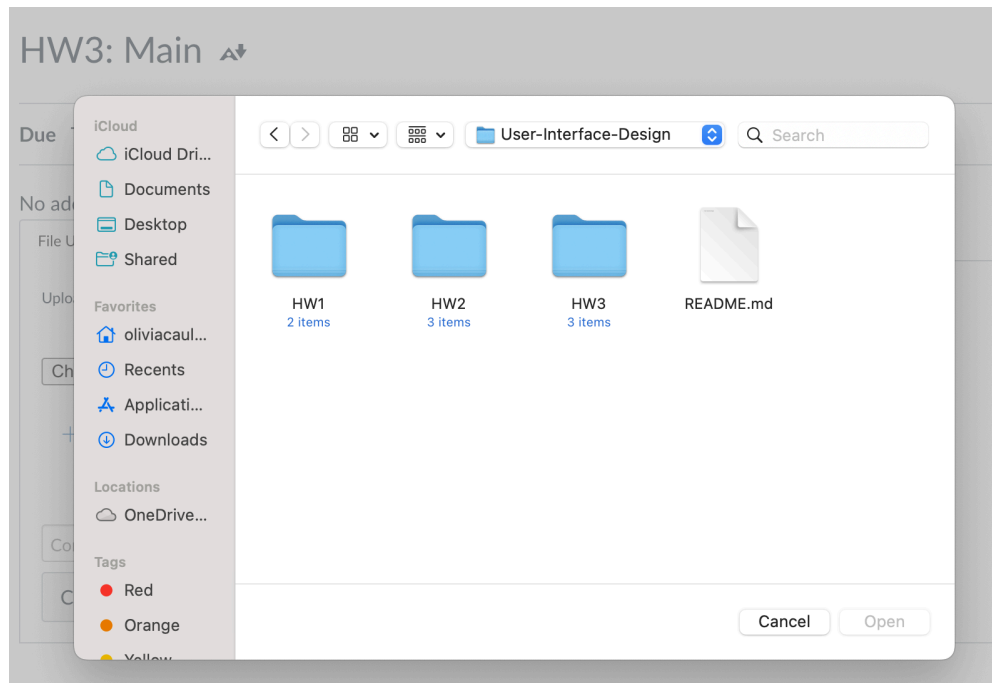
Cancel

Submit Assignment

### Low-Level Actions:

- 1) Locate “Choose Files” button
- 2) Press “Choose Files” button

## Stage 5: Select Files



### Low-Level Actions:

- 1) Locate desired file
- 2) Double-click on desired file

## Stage 5: Submission

File Upload

Upload a file, or choose a file you've already uploaded.

Caulfield\_Homework2.pdf

[+ Add Another File](#)

[Click here to find a file you've already uploaded](#)

### Low-Level Actions:

- 1) Locate the "Submit Assignment" button
- 2) Click the "Submit Assignment" button

## Stage 6: Confirmation

### Submission

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✓ **Submitted!**

Jan 24 at 7:28pm

[Submission Details](#)

[Download](#)

[1\\_positive\\_example.pdf](#)

[Download](#)

[2\\_negative\\_example.pdf](#)

Grade: 1 (1 pts possible)

Graded Anonymously: no

Comments:

No Comments

### Low-Level Actions:

1) Look at sidebar to make sure the assignment is submitted

**a. When the final subgoal is complete, what feedback is given to let you know you executed the goal correctly?**

When the final subgoal is complete, courseworks provides a submission confirmation denoted by the word “Submitted” alongside a checkmark. Further, it allows you to click directly on your submission to ensure it was uploaded properly.

**2. Many mobile devices (phones, tablets) have menus that appear when you swipe from the top, rather than having to click a start button or a menu button. What advantage does it have from the perspective of low-level interactions? Why?**

From the perspective of low-level interactions, swiping from the top increases the size of the clickable area. Recalling Fitts’s law, swiping from the side of the screen is equivalent to having an infinite size button. This is advantageous for users as it takes less time to move your finger to this target as opposed to needing to be accurate and precise with a small on-screen button.

**3. What major feature did every major streaming service (YouTube, Netflix, Hulu, etc.) introduce to save users one low-level interaction? Why did they introduce it?**

**(You may answer from the perspective of users or the service owners, or both?  
What do you think? Do you use this feature or did you disable it? Why or why not?**

Every major streaming service has added autoplay to save users one low-level interaction of having to press “play next video/episode.” This feature was introduced to keep users on their service for longer by enabling low/no effort to have more videos play. For users, this feature makes viewing easier and more pleasurable by not having to move from their position in order to watch more. I think this feature is smart from the company’s perspective because it keeps users locked into their service for longer. I use this feature since it is automatically enabled and I never thought to go through the effort of disabling it.

- 4. Name of application not mentioned in class or on this assignment that you use that has eliminated or simplified its interactions to reduce friction for users. Name the application and write 2-3 sentences explaining how the interaction was simplified and why you like it.**

In the past few years, Apple Music simplified the ability of playing music by adding Infinity Play. Before Infinity Play, once you “ran out” of music in the queue, nothing would play until more music was added to the queue. However, with Infinity Play the need for users to pay attention to their queue is removed because when the queue is empty, similar music plays until you turn off the app. This simplified my ability to enjoy since I can listen to music similar to what I was already playing without having to manually maintain my queue.