

CS798H

FINAL MILESTONE

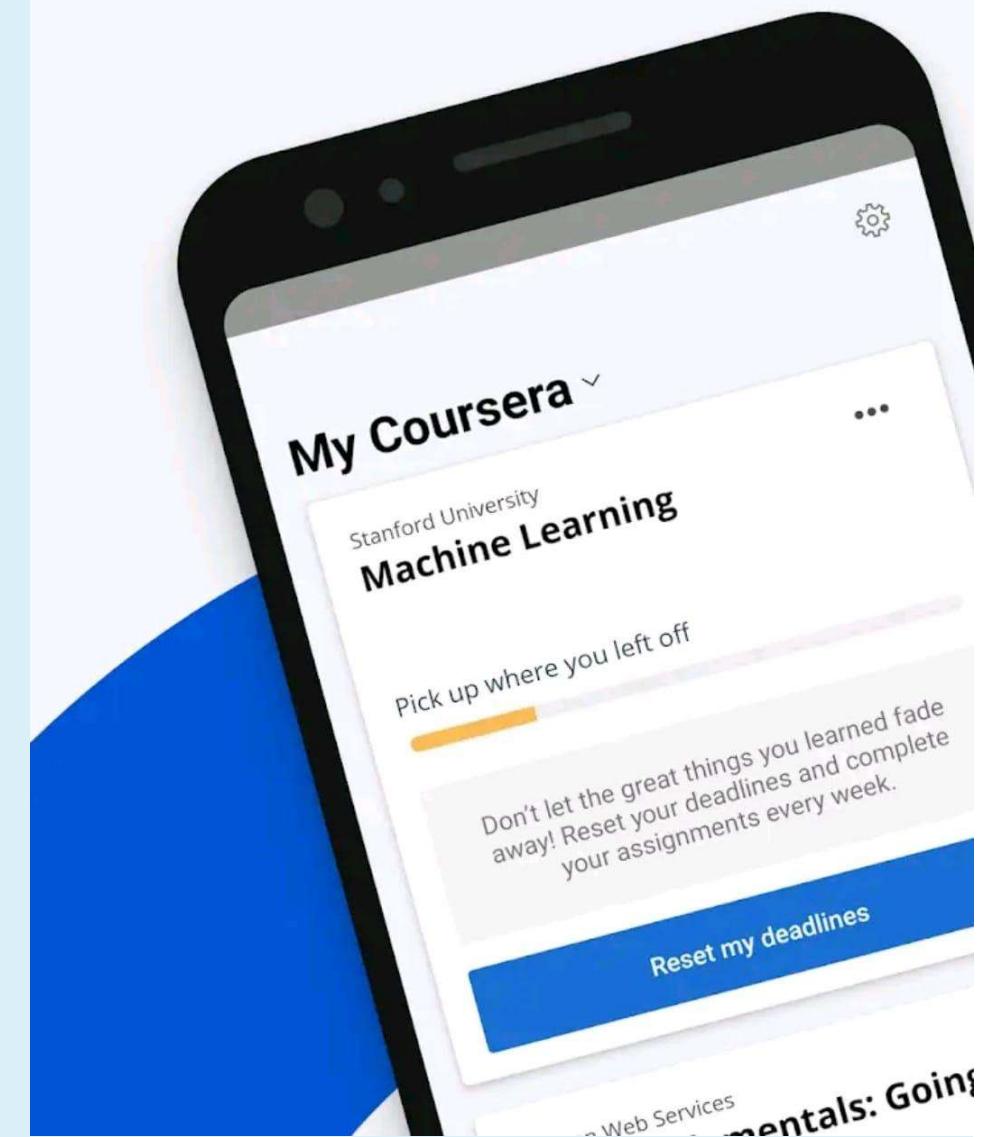
Instructor: Dr. Sruti S Ragavan

**Submitted By:
Bhavna, Omkar, Prajwal, Ritick**

COURSEERA

Mobile Android App

An online platform that offers
a wide range of courses from
universities and institutions worldwide



Data Used For Formative Evaluation:

	Content	Score	Final Code
0	I like that this platform makes the material available at a competitive cost, but the user experience is awful when it comes to quizzes. Multiple-choice questions are terribly formatted, so you can't read the questions and the possible responses without having to scroll up and down over and over again. It's really tedious and has	4	reading, Exam-format
1	Problems completing assignments and activities on the app, not designed for mobile devices. Only sign up if you have a computer. These are really hard to keep up the timeliness if you are planning to complete using mobile devices. Can't view multiple documents like they are needed at the same time, response boxes are too small, there the never ending loop of not complete.	2	compatiblty
2	I like that I can listen to audio-only versions of the videos (great for a commute); that the app remembers my last-set speed setting; and that it has an auto-play feature that automatically moves to the next video. This app works great for video-and-quiz-based courses, but the desktop version is better when completing programming assignments in Jupyter notebooks.	5	compatiblty , codespace

- **Google play store review data**
- The data was obtained by web scraping from google play store and was stored in an excel sheet. Each datapoint contains a review and a rating out of 5 stars.

Problems We Found?



Video playback problems



Subtitles playback issue



View mode problems



No proper Progress Tracker



Exam-format- issues in submission, overall use



Transcripts show issue

Problems we Chose to Solve



Progress Tracker



Exam Format



Transcripts & Videos

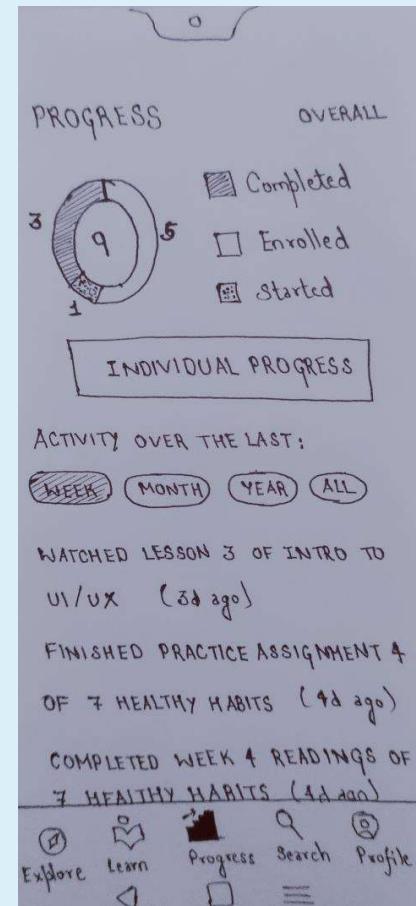
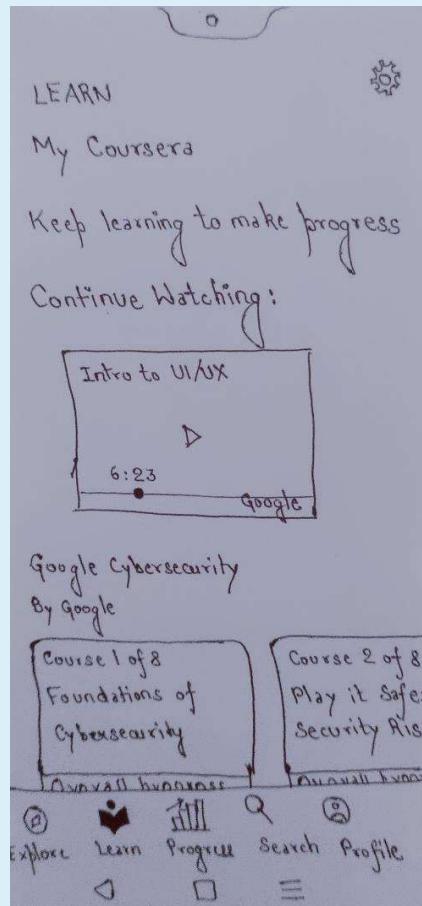
Prototyping

- Chose the above problems and prepared prototypes for each problem.
- Low fidelity prototypes were first made on paper and the same were then used to design high fidelity prototypes using Procreate and PowerPoint
- Evaluated the prototypes through cognitive walkthrough using a Persona of the user

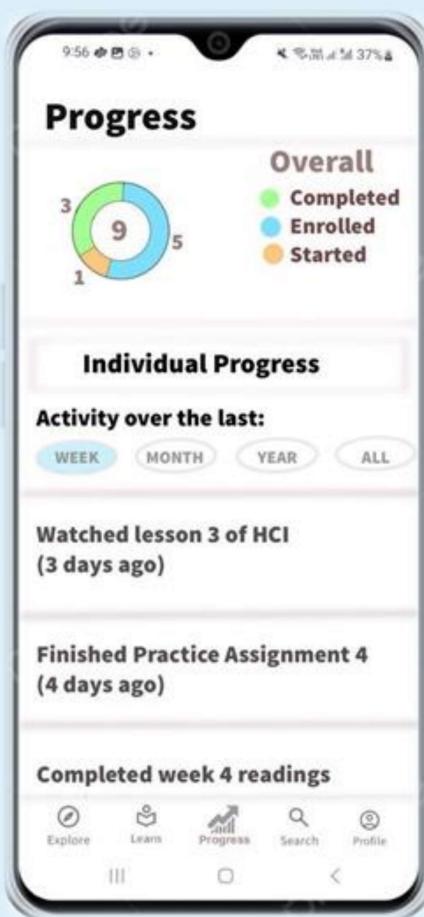
1) Progress Tracker

- Earlier there was only a feature of the percentage of course done.
- Now, We have added a feature of showing progress for each section- Enrolled, started, and completed along with option to see progress in percentage.
- We have also added an option to see the progress over last week/month/year.
- This will help the student to know his progress status.

Low-fidelity prototype



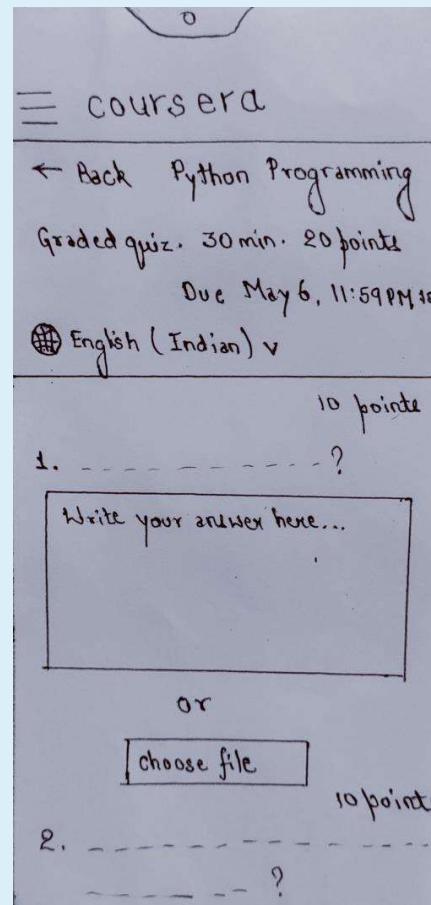
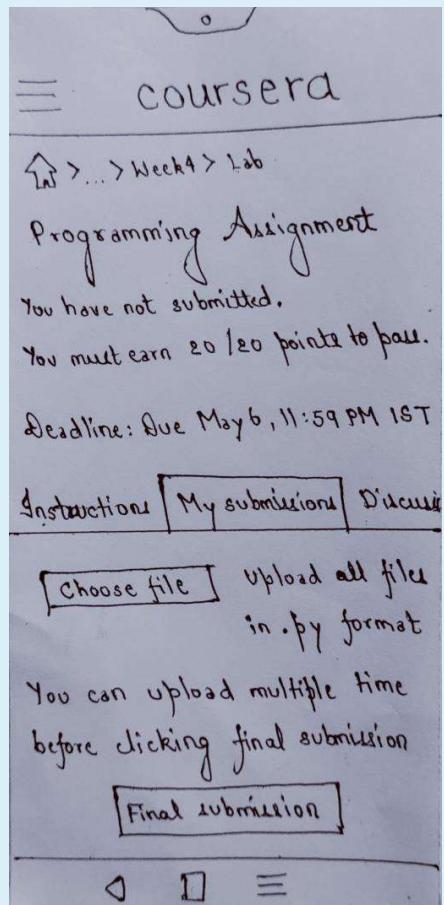
High - fidelity prototype



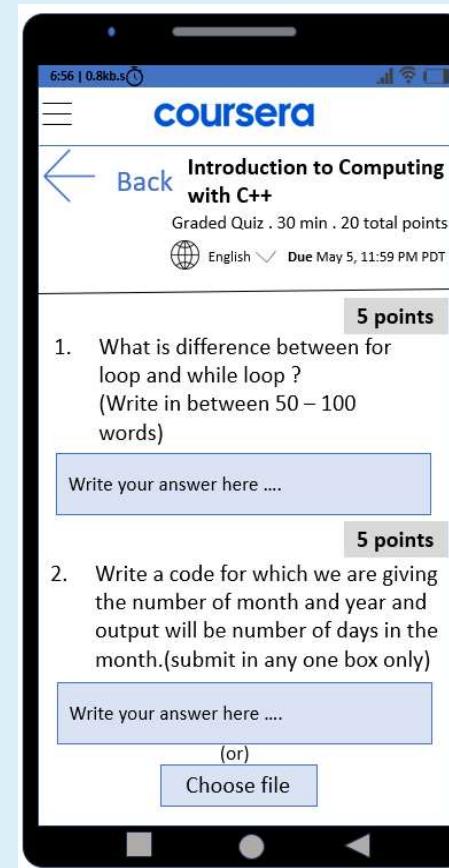
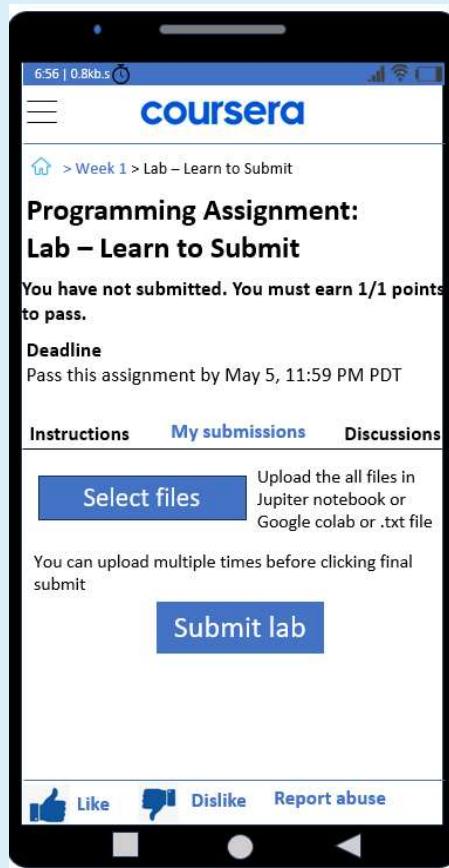
2) Exam format

- Previously, in exams for writing long answers there were only limited space, and for coding question there were less space.
- Now, we have added extra space for long answers and for coding gave option to write in different compiler and submit or write in the text box.
- In coding assignments, the submission was too complex, we have fixed that adding feature like we have in mookit.
- This will provide the user a simple and easy interface.

Low-fidelity prototype



High-fidelity prototype



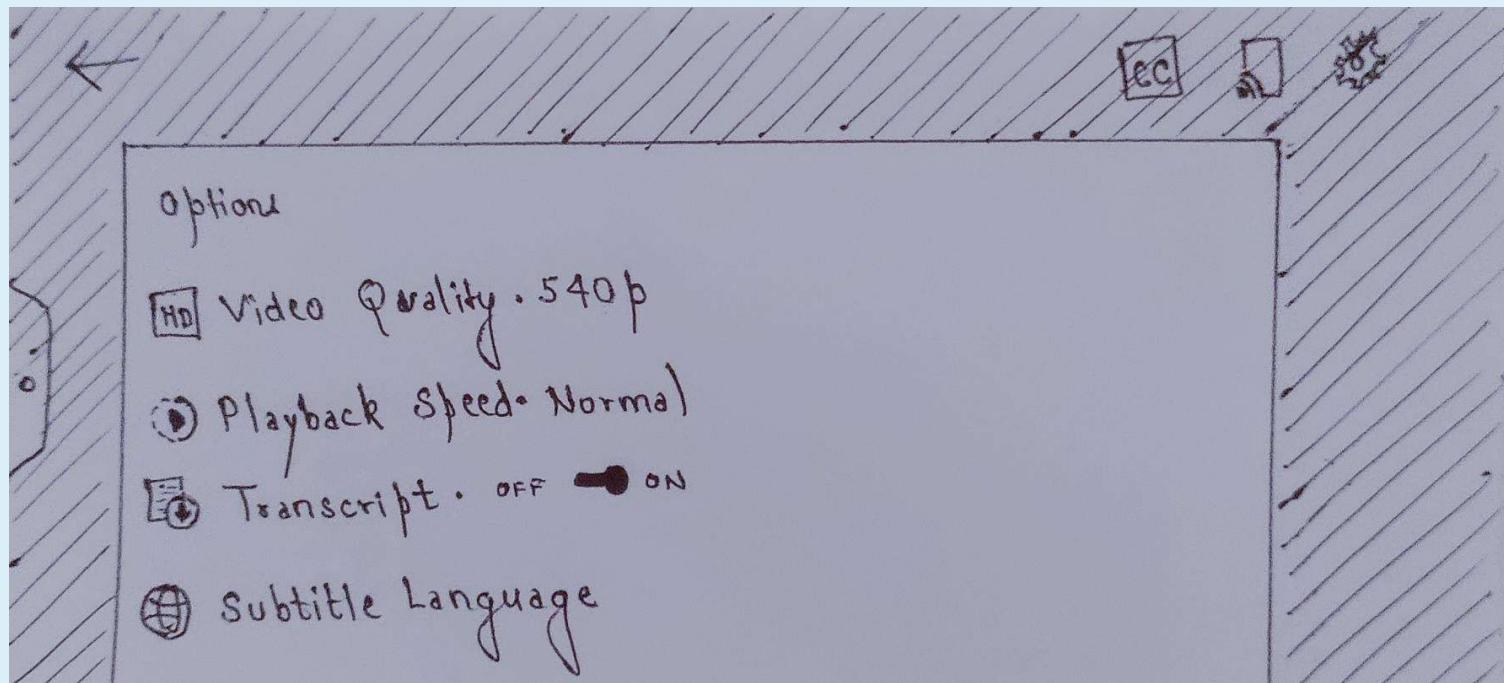
3) Transcript issue

- Previously, some parts of the transcripts (like the beginning or the end) not being visible properly, and not able to full screen to keep up with the transcripts.
- Now, we have changed the layout of transcript display to solve all the above problems. User can go full screen too.
- This will help the user by improving the quality of learning.
- We have also added title at the top of video being played.

Low-fidelity prototype



Low-fidelity prototype



Low-fidelity prototype



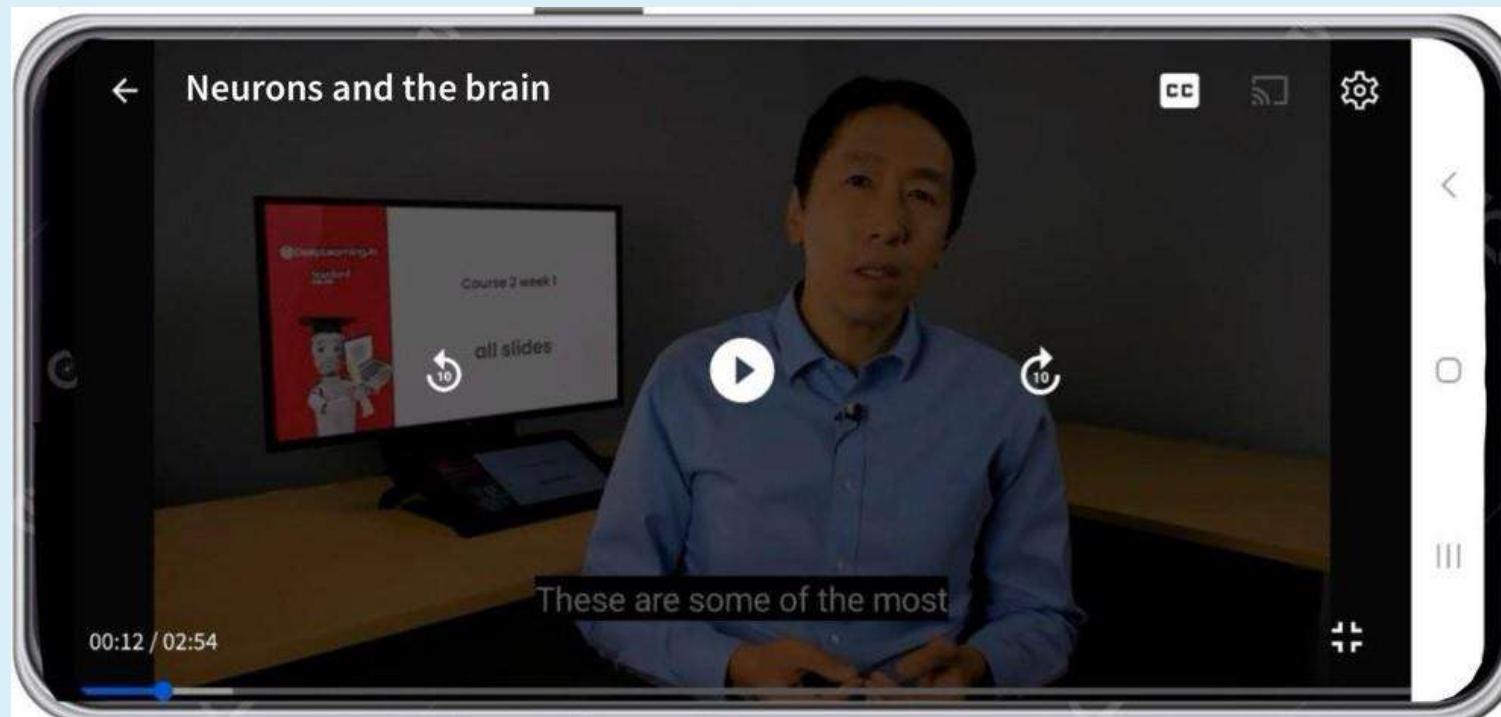
TRANSCRIPT

4:26 In terms of prerequisite
we assume you are familiar
with humans! We will cover
the rest from scratch! - - -

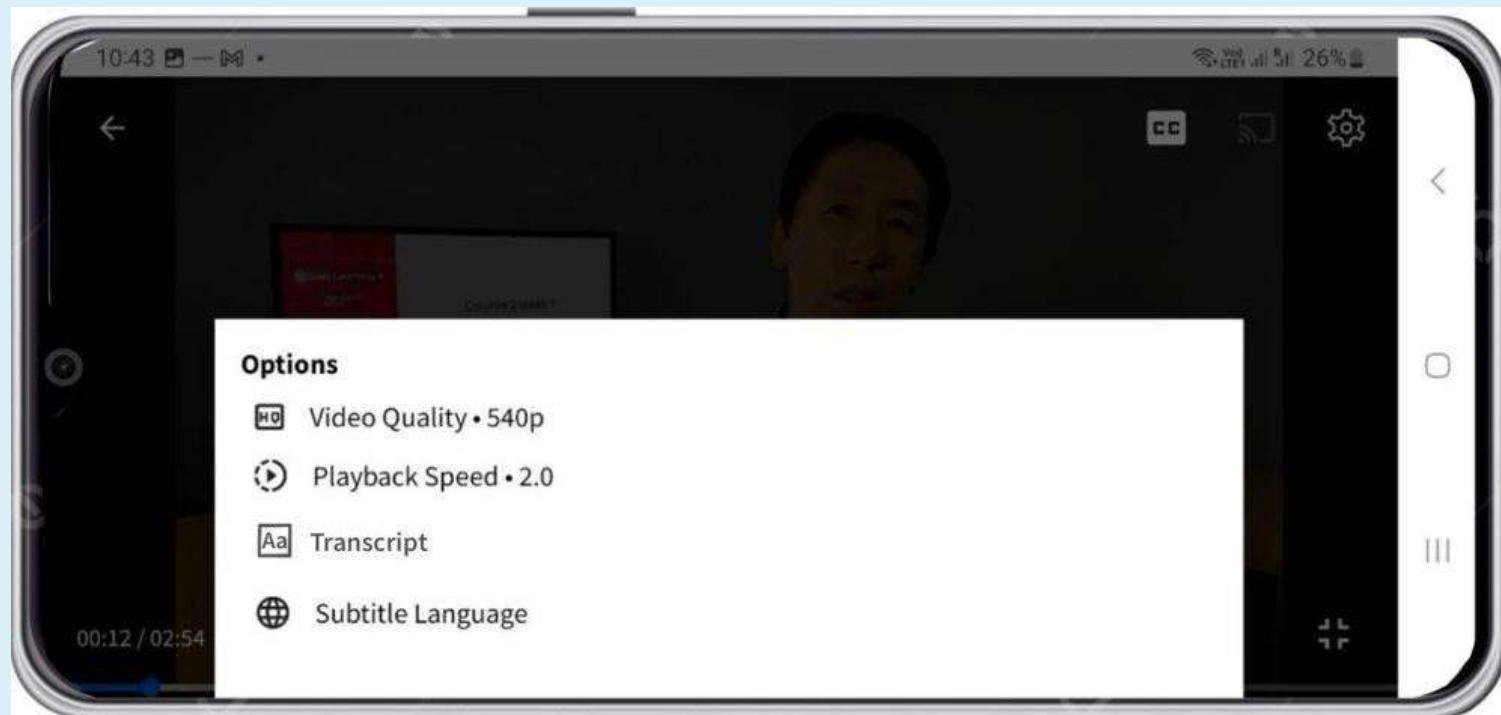
Turn off

4:32 - - - - -

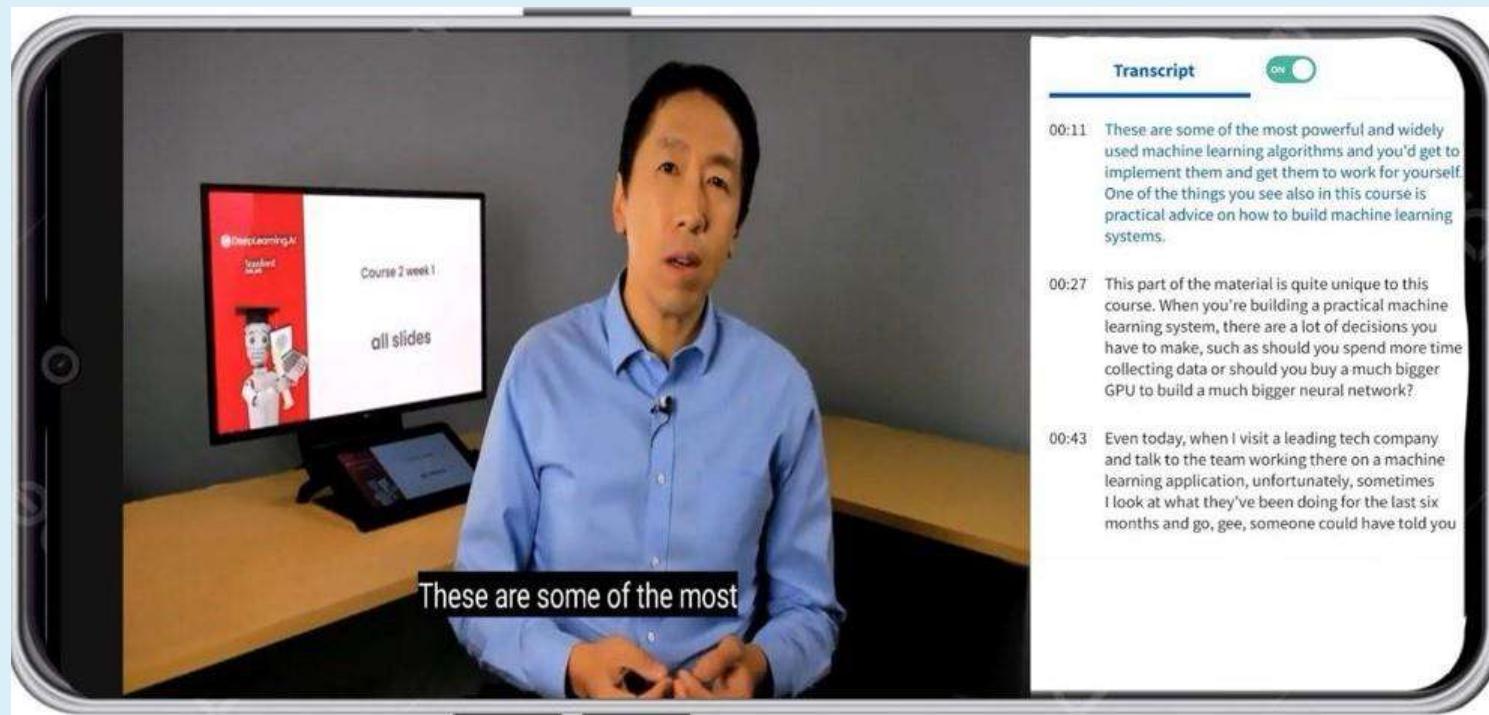
High-fidelity prototype



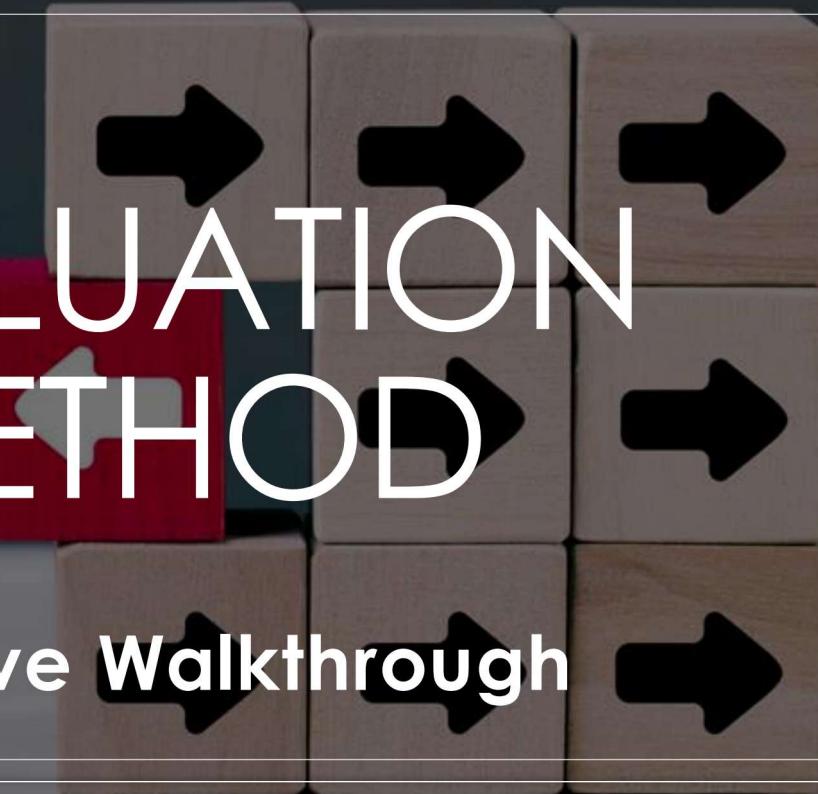
High-fidelity prototype



High-fidelity prototype



EVALUATION METHOD



Cognitive Walkthrough

Steps For Creating a Persona

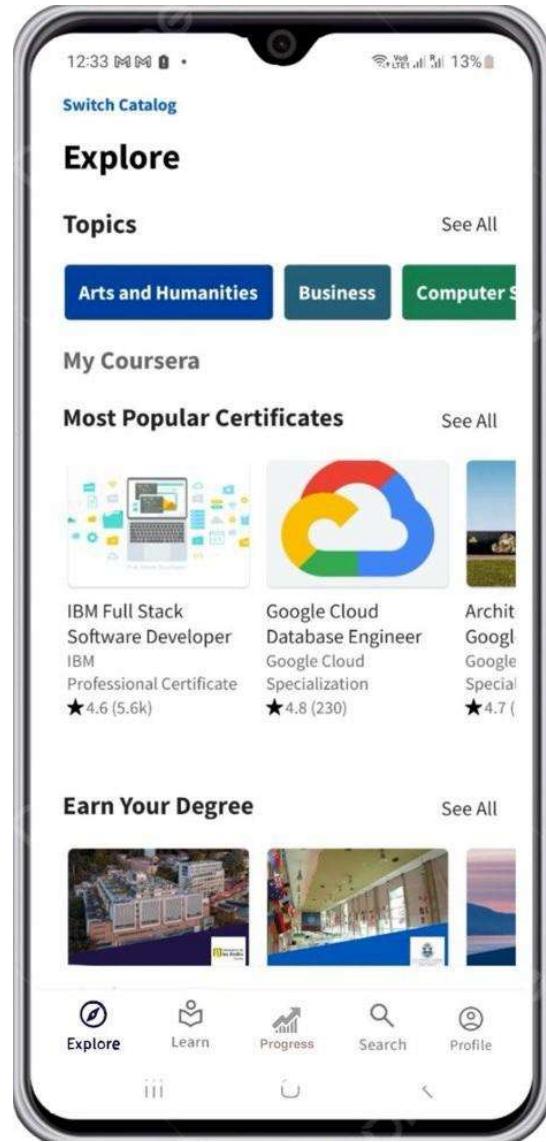
- User Research: Leveraging review data
- Audience Segmentation: If the user is trying to complete some task/goal
- Deciding the layout for persona
- Setting demographic info and background of the persona
- Defining goals of the persona, based on the issues we want to fix
- Designing a persona

Persona

NAME	DESIGNATION	
Emily Watson	Student	
	Academics Interests Data Structures and Algorithms, Theoretical Computer Science, Compilers	
	Background Bachelors In Computer Science from The University of Texas at Austin Consistent Coursera user for 5 years. Bought around 72 courses in fields ranging from personality development to computer science	
Demographics <input checked="" type="radio"/> Female 22 years <input checked="" type="radio"/> University Of Chicago Masters Student Department Of Computer Science	Work Experience 1) Present Computer Science Researcher at University of Chicago for more than 2 years 2) Former Development intern at Amazon Web Services , Texas, US 3) Former Data Science Intern at Microsoft, Seattle, Washington	
Coursera Versions 	Coursera Usage Daily Usage in Hours  Weekly Usage in Days 	Issues to Fix 1) Busy scheduled, needs an efficient progress tracker 2) Faces issues in coding assignments while uploading code and writing long answers 3) Transcript quality for courses not good, unable to view in full screen

Task 1

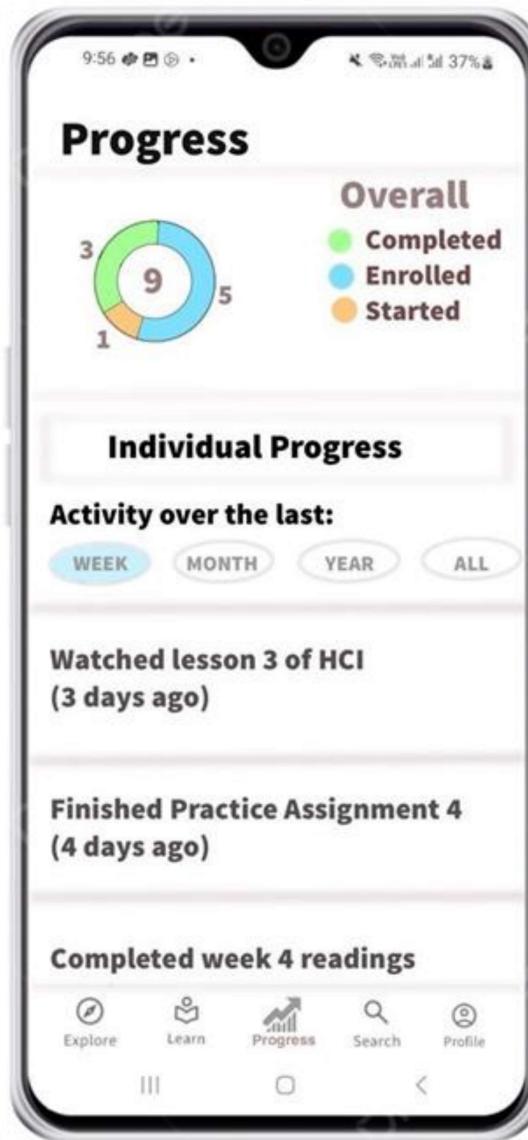
Progress Tracker



Question	Answer
Will “User” want to do this?	?
Assume “User” wants to do this, will s/he know what to do?	?
Assume “User” knows what to do, will s/he actually do it?	?
Assume “User” did it, will s/he know they did the right thing?	?

Task 1

Progress Tracker



Question	Answer
Will “User” want to do this?	Yes
Assume “User” wants to do this, will s/he know what to do?	Yes
Assume “User” knows what to do, will s/he actually do it?	Yes
Assume “User” did it, will s/he know they did the right thing?	Yes

Task 1

Progress Tracker



Question	Answer
Will “User” want to do this?	Yes
Assume “User” wants to do this, will s/he know what to do?	Maybe
Assume “User” knows what to do, will s/he actually do it?	Yes
Assume “User” did it, will s/he know they did the right thing?	Yes

Task 1

Progress Tracker



Question	Answer
Will “User” want to do this?	Yes
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Task 1

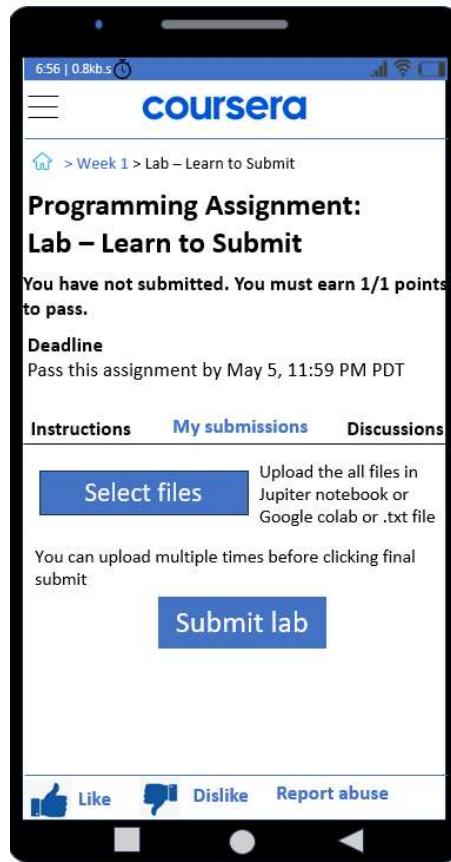
Progress Tracker



Question	Answer
Will “User” want to do this?	Yes
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Task 2

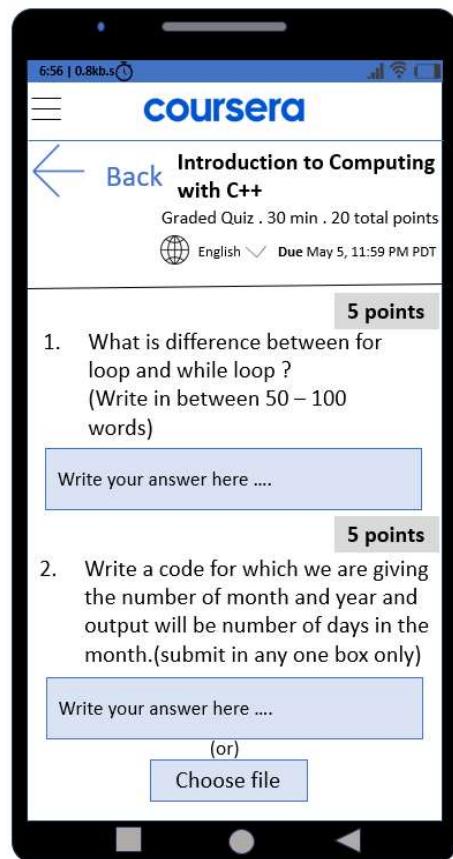
Exam Format



Question	Answer
Will “User” want to do this?	Yes
Assume “User” wants to do this, will s/he know what to do?	Yes
Assume “User” knows what to do, will s/he actually do it?	Yes
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Task 2

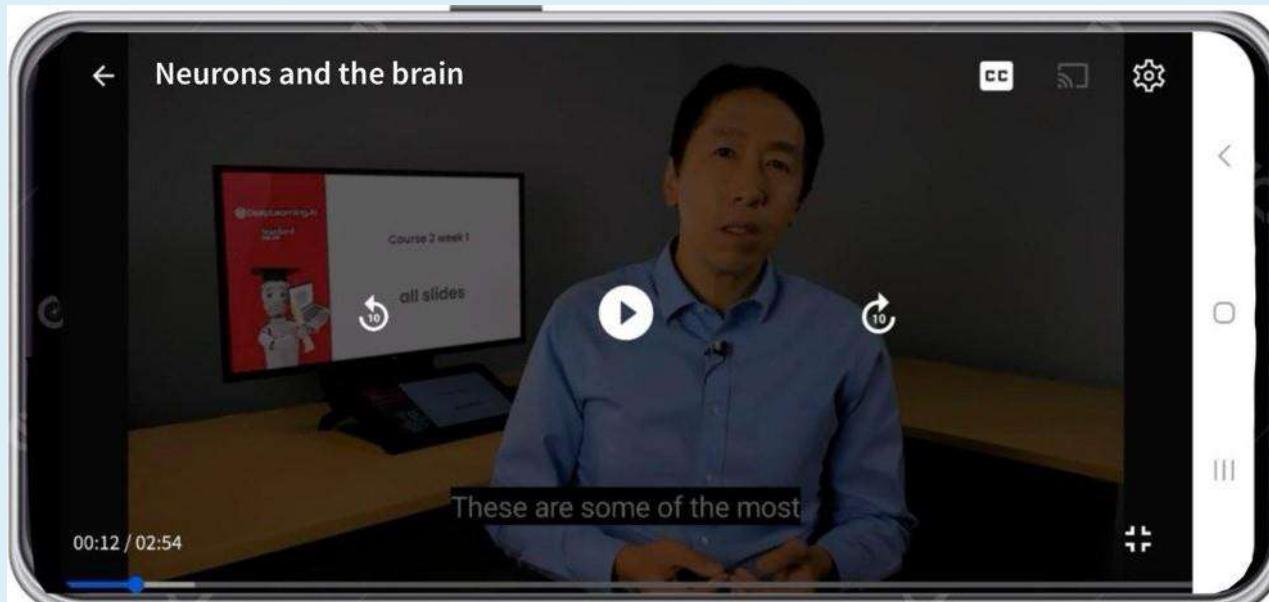
Exam Format



Question	Answer
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Task 3

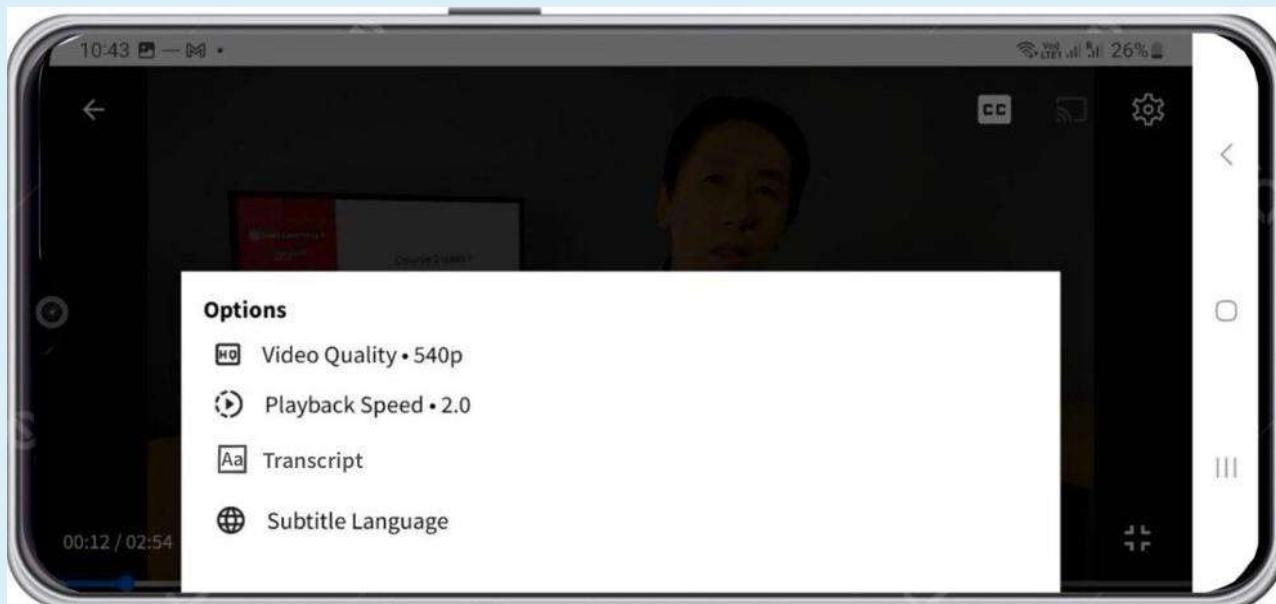
Transcripts



Question	Answer
Will “User” want to do this?	?
Assume “User” wants to do this, will s/he know what to do?	?
Assume “User” knows what to do, will s/he actually do it?	?
Assume “User” did it, will s/he know they did the right thing?	?

Task 3

Transcripts



Question	Answer
Will “User” want to do this?	Yes
Assume “User” wants to do this, will s/he know what to do?	Maybe
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Assume “User” did it, will s/he know they did the right thing?	Yes

Task 3

Transcripts

These are some of the most

Transcript

00:11 These are some of the most powerful and widely used machine learning algorithms and you'd get to implement them and get them to work for yourself. One of the things you see also in this course is practical advice on how to build machine learning systems.

00:27 This part of the material is quite unique to this course. When you're building a practical machine learning system, there are a lot of decisions you have to make, such as should you spend more time collecting data or should you buy a much bigger GPU to build a much bigger neural network?

00:43 Even today, when I visit a leading tech company and talk to the team working there on a machine learning application, unfortunately, sometimes I look at what they've been doing for the last six months and go, gee, someone could have told you

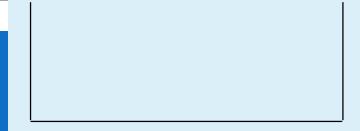
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Problems in Existing Prototypes

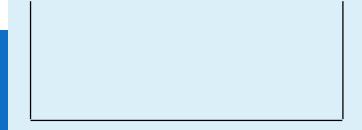
1. The addition of one more icon (for progress tracker) at the bottom of the page might clutter the space and disturb usability.
2. In some cases, it is possible that the size of the transcript text is difficult to follow, It would cover the video area or the size of the transcript window needs to be enlarged/diminished.
3. There's no way a user can know to click on the progress donut to check individual course type progress.

Potential fixes?

1. The progress tracker icon could be adjusted on the home page of the app to declutter the available space.
2. Small/Medium/Large text options and a resize handle can be added to change font and window size for the transcripts, respectively.
3. After every app update, we can give user a walkthrough of the new features.



THANK YOU



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