

Homework 11 - Technical Feasibility and Prototype

Restate Ideas:

1. TV Shows (Game of Thrones)

Idea: Predict survival of Game of Thrones characters for episode, season, series

- a. Person: Game of Thrones fan wanting to play predicting game on character outcomes
- b. Media: Images, Videos
- c. Interaction: click and search
- d. Goal: Become expert in predicting Game of Thrones
- e. Visible: Take a quiz

2. Mastering Guitar Songs

Idea: Help guitar learners practice songs more easily by letting them create markers/loops that replay specific sections of a video/song.

- a. Person: Guitar Enthusiast
- b. Media: video, audio, sheet music
- c. Interaction: pick and choose to replay parts of the song
- d. Goal: Master difficult parts of the song
- e. Visible: Removal of parts/ Recording of own version

Find 3 applications that solve similar problem, or part of the problem

TV Shows (Game of Thrones):

1. <https://quizlet.com/205829996/game-of-thrones-flash-cards/>
 - a. Quizlet about Game of Thrones
 - b. Screenshot

The screenshot shows the Quizlet website interface. At the top, there is a blue header bar with the Quizlet logo, a search bar, and 'Log in' and 'Sign up' buttons. Below the header, it says '22 terms' and shows a profile picture for 'jenna_gillon-crowder'. The main title is 'Game of Thrones'. Below the title are four circular icons: a clipboard (FLASHCARDS), a dashed circle (LEARN), a pencil (WRITE), and a speaker (SPELL). A horizontal line separates this from the card grid. The grid contains six cards: 'FLASHCARDS' (showing a clipboard icon), 'TEST' (showing a document icon), 'LEARN' (showing a dashed circle icon), 'MATCH' (showing two cards with a person icon), 'WRITE' (showing a pencil icon), and 'GRAVITY' (showing a ball icon). Each card has a teal border at the bottom.

Terms in this set (22)

Cersei Lannister

Queen Regent of Westeros, widow of King Robert Baratheon, Mother of Joffrey, Myrcella, and Tommen, Sister to Tyrion and sister and lover to Jaime Lannister



Robert Baratheon

Deceased king of Westeros, claimed the iron throne after Mad King Aerys Targaryen was killed by Jaime Lannister (his sworn protector as a



◀ Back

Test

GRADE

20%

[Print test](#)

5 Written questions

1. Joffrey's "Hound", his main protector, brother of "The Mountain" (Gregor Clegane).



INCORRECT

Gregor Clegane

THE ANSWER

Sandor Clegane aka "The Hound"

2. Young feisty Arya escaped from Kingländ and found herself marching North with men of the Night's Watch who her father knew. However, she is currently held captive with many others, by Lannister men at a castle called Harrenhal and is serving as cup bearer to Tywin Lannister (unbeknownst to him). Direwolf-Nymeria (missing)



CORRECT

Arya Stark

c. Two aspects want to incorporate

- Incorporate large buttons for navigation such as learn and quiz, this allows users to easily navigate the web application
- Incorporate quiz/test feature that tests the users on the knowledge they have gained from going through the website

2. <https://tinycards.duolingo.com/decks/TXcRFp/game-of-thrones-houses>

- a. Tinycards, Game of Thrones Houses. Another learning trivia quizzing yourself app
- b. Screenshots

The screenshot shows the Tinycards app interface. At the top, there's a blue header bar with a smiley face icon, a search bar containing the text "SEARCH", a "HOME" button, a "+ CREATE" button, and a "SIGN UP" button. Below the header, the title "Game of Thrones Houses" is displayed in bold, with a subtitle "A few houses from the series A Song Of Ice And Fire". A user profile for "Charles Creed" is shown with 1K likes. There are two buttons: "FAVORITE" and a share icon. Below the title, there are tabs for "LESSONS" (which is underlined) and "CARDS (54)". Under the "LESSONS" tab, there's a numbered card (1) and three locked cards. Under the "CARDS" tab, there are two cards shown: one featuring the Direwolf logo with the text "NEW CARD" and another featuring the Stark family motto "Winter is Coming" with the text "Stark" and "Winterfell". A "CONTINUE" button is at the bottom right, and instructions "Click card or press [SPACE] to flip" and "Press [ENTER] to continue" are at the bottom left.

Game of Thrones Houses

A few houses from the series A Song Of Ice And Fire

Charles Creed 1K

FAVORITE

LESSONS CARDS (54)

1 NEW CARD

Stark

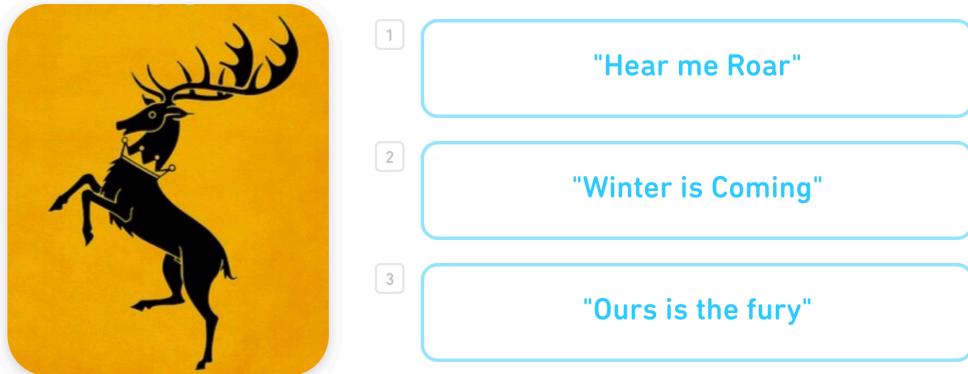
"Winter is Coming"

Winterfell

Click card or press [SPACE] to flip

CONTINUE

Press [ENTER] to continue



c. Aspects

- Incorporate perhaps the flashcard learning process of people flipping things to learn the characters of game of thrones. Main purpose is still the predicting, but for people who need a refresher on the characters, they can quiz themselves on it
- Incorporate the keyboard shortcuts to navigate the web application. Give users the option to use keyboard instead of mouse/trackpad, makes things smoother and more efficient.

3. <https://www.buzzfeed.com/crystalro/game-of-thrones-would-you-rather-season-5>
- Buzzfeed quiz about game of thrones would you rather questions. Relates because it involves voting/choosing things and seeing a result/outcome
 - Screenshots

[!\[\]\(8af806fb1314382d09bc5ec5b767526c_img.jpg\) BuzzFeed](#) News Quizzes Celeb GOT Shopping Videos Newsletters



If you need a refresher on Season 5, check out our [recap here!](#)

1. Would you rather:



Do nothing but wash corpses for the rest of your life?

Via HBO



Or go blind for the rest of your life?

Via HBO

1. Would you rather:



71%

8,928 votes

Do nothing but wash corpses for the rest of your life?



29%

3,695 votes

Or go blind for the rest of your life?

[Go Back And Vote](#)

 Copy Poll Link

 Share Your Vote!

 Share Your Vote!

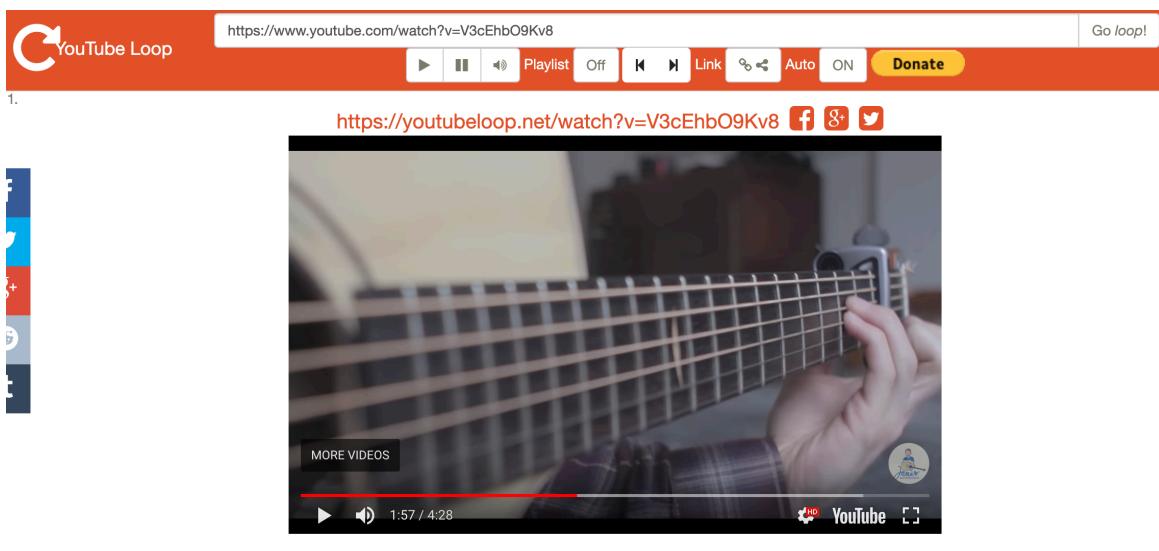
c. Aspects

- Incorporate the minimalistic design and choosing things where what you hover over is highlighted, and is intuitive. Makes it easier for users to navigate website to know what to do
- Incorporate the outcome/results to show the number of users that chose a specific prediction, and percentage, shows more than just what you got right and wrong so you can compare to other people

Mastering Guitar Songs

1. YoutubeLoop.net

- a. YoutubeLoop, web tool which allows you to upload a youtube video url, then play it in an infinite loop, and you can set start/end markers so you can loop partial parts
- b. Screenshot



c. Aspects:

- Incorporate infinite looping feature with play/pause, useful if person wants to just continuously play a certain part of video, and also play and pause are essential
- Incorporate movable start/end markers, useful for creating partial video loops so user does not have to input time and can simply drag buttons, which are usually more intuitive.

2. [youloop.io](#)

- a. youloop allows you to loop any YouTube video and slow it down. Website is used to learn and practice anything.
- b. Screenshots

The screenshot shows the youloop.io website interface. At the top, there's a banner with a violinist and the text "CREATE LOOPS. SLOW DOWN YOUTUBE VIDEOS. EASILY!". Below the banner is a search bar with the placeholder "youtube.com/watch?v=..." and a green "IMPORT" button. The main content area shows a person playing a guitar. On the right, there's a list of loops: "First Loop 01:55.000 - 02:22.000" and "Second Loop 02:39.000 - 03:16.000", each with edit and delete icons. A "SHORTCUTS" section lists keyboard shortcuts: → for Move Forward 1s, ← for Move Backward 1s, Spacebar for Play / Pause, and C for Go back to the loop start. At the bottom, there's a "METRONOME" section with a value of 80, and controls for play, slow down, loop in/out, save, and full screen.

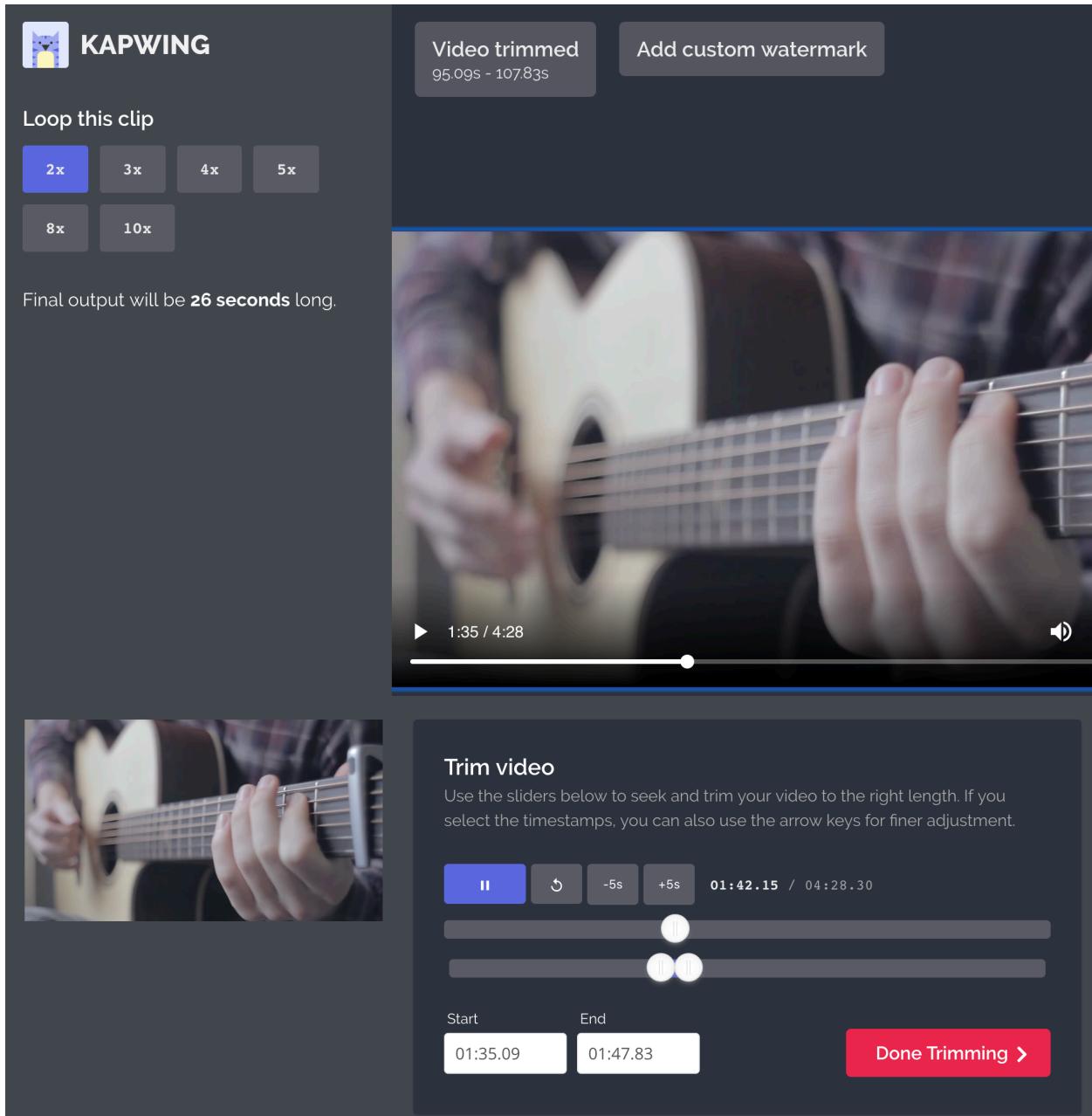
c. Aspects

- Very nice minimalistic design with dark colors for background in the player that are no distracting. Home page is nice too with inspirational picture of person playing violin outdoors. Will try to incorporate stylistic design/ aesthetic to emphasize usability heuristics
- Incorporate “save” loop feature to save multiple loops, allow user to save multiple loops that they want to practice on, so they don’t have to keep finding the part of the video
- Incorporate keyboard shortcuts, so user can navigate application without using the trackpad or mouse

3. [kapwing.com](#)

- a. Kapwing is an online video creation and editing platform used for images, GIFs, and videos. This website pertains because you can create and download GIFs created from trimming youtube videos, which is a feature that I am trying to implement.

b. Screenshots



c. Aspects

- Incorporate video trimming start and end so that you can manually enter numeric times. This gives users option to either use slider buttons or enter numeric numbers because sometimes sliding is slower and less efficient
- Incorporate slow down and speed up feature/button to adjust speed of the loop, this gives user the option to change the speed of the video being played because often you want to slow things down because fingers move to too fast in guitar songs.

Identify media to build prototype

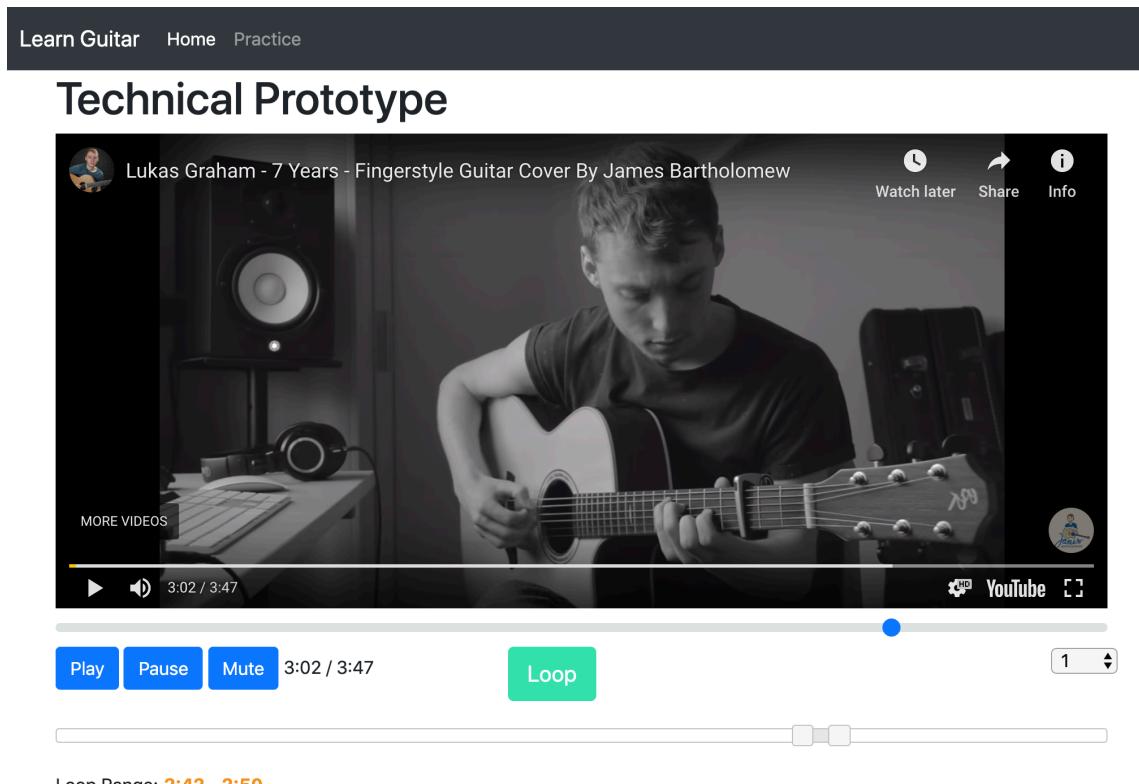
1. TV Shows (Game of Thrones)
 - a. Zip file of game of thrones alive characters images
2. Mastering Guitar Songs
 - a. Pdf of screenshots of youtube video's of guitar songs

Biggest technical risks, what is the thing you need to create technical prototype of first, assess feasibility

1. TV Show Predictions (Game of Thrones)
 - Recording the alive/dead button prediction counts to compute a score
 - Keeping track of user accounts to show data from different users (optional)
2. Mastering Guitar Songs
 - Creating/replaying loops of the videos

Pick an idea, and create technical prototype to assess technical feasibility

Picked mastering guitar songs



Loop Range: 2:42 - 2:50