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CNIT 581 Milestone 3

Inline Youtube annotations for Democratized Fact Checking

1. **Project Context and Original Wireframes**

This project's main use case is to implement an inline annotation system for Long From Youtube videos to help combat fake news and misinformation. The main goal is for users to be able to create and rate on annotations to democratize the information exchange on the Internet. Users should be able to log in to a Youtube account and add Annotations to videos at specific timestamps to add extra context to inform other people. The entire site is designed with the default Youtube UI in mind to integrate this function to viewers' normal Youtube UX to minimize the need to acclimate.

The Django prototype in Milestone 3 is based primarily on the wireframe proposed in Milestone 1 and later implemented in Milestone 2. Due to the drastic changes made in this milestone, the following section acts as a brief introduction on the original design to act as a foundation to explain the latter changes as listed under Section 2 - Changes that were made in the prototype.
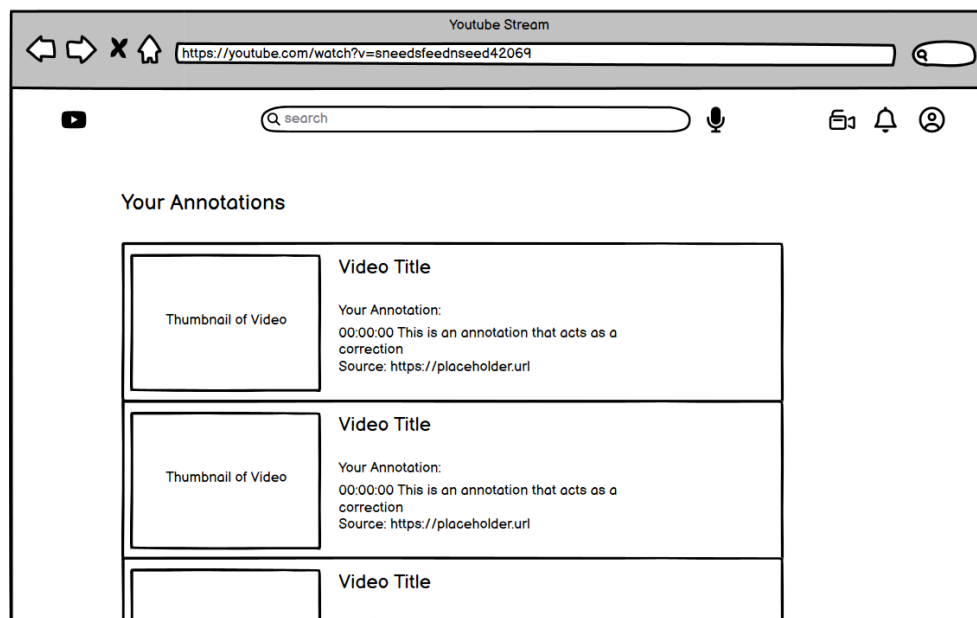
a. **The "Your Annotations" Page**

Figure 1: UI Mockup for showing all of a user's submitted annotations on multiple videos.

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This Page acts as a dashboard that shows all the annotations a user has submitted across multiple videos
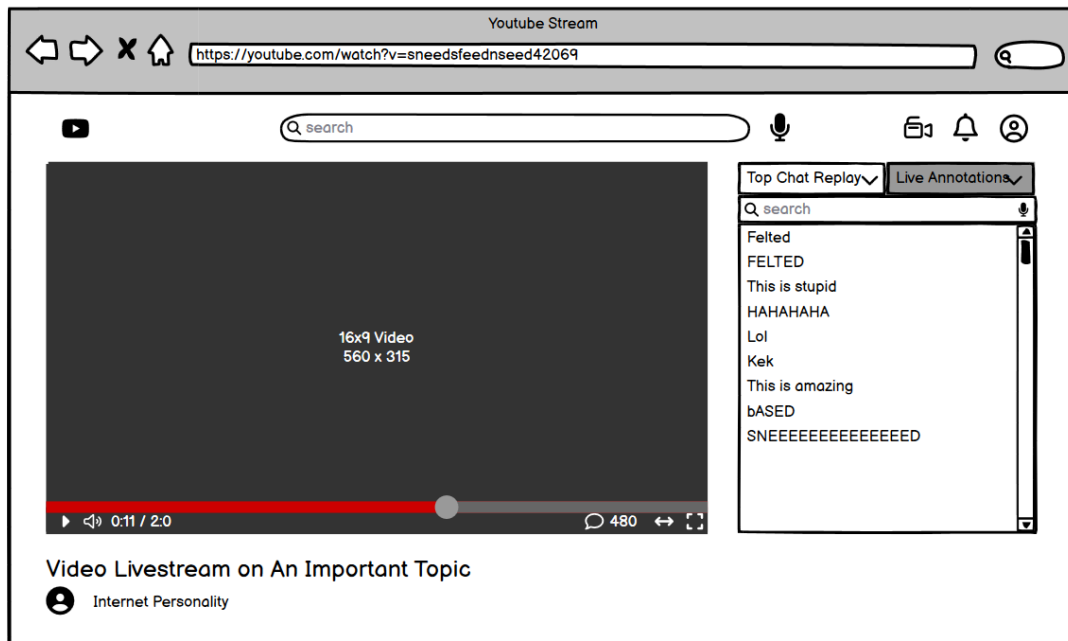
b. The "Video" Page

Figure 2: UI Mockup for showing chat replay on a video.

This page mimics the typical layout one would see on a Youtube Livestream. Upon entering the page, the right panel is by default set to the "Chat Replay" tab. Users can then toggle across different pages using a drop down menu to show different annotations, including "Live Annotations", "All Annotations", and "Add Annotations"
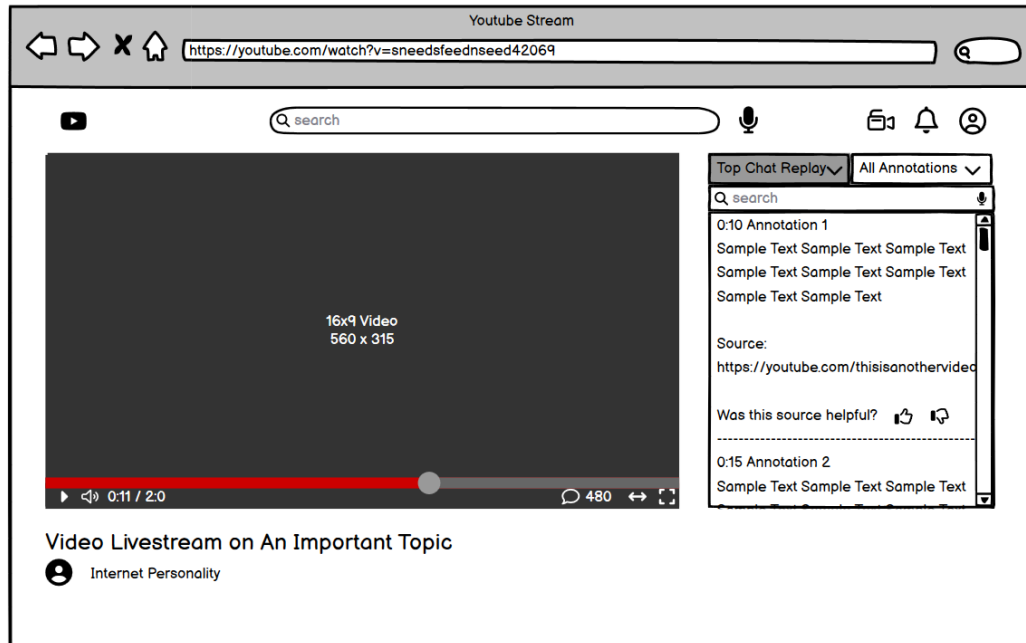
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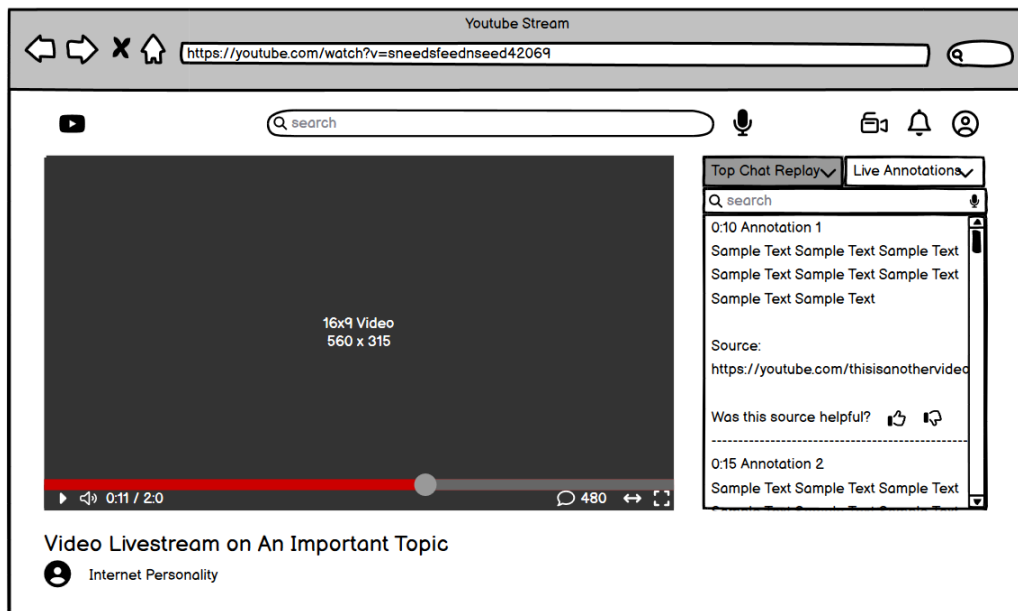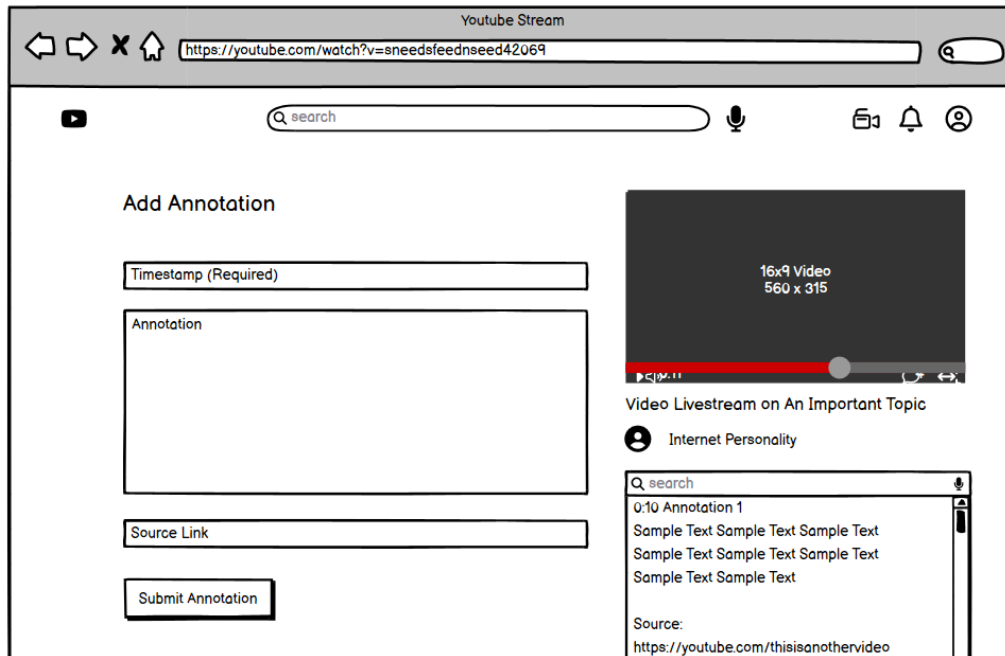*Figure 3: UI Mockup for showing all annotations on a video.*

Figure 4: UI Mockup for showing live annotations on a video.

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c. The "Add Annotations" Page

Figure 5: UI Mockup for adding annotations on a video.

The "Add Annotations" Page can be accessed via the drop down menu on the "Video" Page under "Annotations" > "Add Annotations". This page is a form that allows users to submit their own annotations on a specific point in the video with the appropriate time stamp, annotation text, and the resources that support the annotation. The video that will be annotated along with a list of existing annotations is available on the right of the page for reference when writing annotations.

2. Changes that were made in the prototype

From Milestone 3, the entire site was converted into Django using templates to dynamically show annotations on the website. Temporary data is stored in a dictionary within "data.py" and is made available through the use of Django contexts.

To make the routes more cohesive and intuitive, the roles of the pages from Milestone 2 were rearranged under different routes:

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a. The "video" page from Milestone 2 will now serve as the index page for the entire site. This is the only webpage available to unauthenticated users. Currently the javascript for "Chat Replay", "Add Annotations", and "Live Annotations" remain as static HTML, untouched since Milestone 2. This is because external Javascript files cannot use data that is stored in the Django context. This is expected to be changed during Milestone 4 with databases and AJAX. For the time being, the contents in these three windows are irrelevant to Milestone 3. This webpage is available under the default route "`/`" and under "`/CNIT581-048-Milestone3`"

b. The "Your Annotations" page from Milestone 2 will now serve as the "List view" for a user's annotations. This page is only available after a user has logged in. Since databases are unavailable yet, the assumption on this page is that the user is making multiple annotations on the same video, just to keep the data models simple. This webpage is available under "`/annotationList`"

c. The "Add Annotations" page remains unchanged from Milestone 2. The page now serves as the "Add view" for adding new citations to a video. Since there is a back end, the post function on this web page is now functional. Validation checks were also implemented with regex to filter out bad data. This webpage is available under "`/addAnnotation`"

d. A new page named "viewAnnotation.html" was created for Milestone 3 that shows an annotation in detail. This can be accessed via the "List view" by clicking on "See More Information" on one of the annotations. This serves as the "Detail view" of the project. This webpage is available under "`/viewAnnotation`"

e. A new page named "editAnnotation.html" was created for Milestone 3. This is similar to "addAnnotations.html", but it is used to overwrite an existing annotation. This serves as the "Edit view" of the project. This webpage is available under "`/editAnnotation`"

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3. References, Libraries, and Instructions

The website by default does not log users in. To see the contents of the site, the following credentials are available as a tet user via the login page under /accounts/login

Username	`sneed`
password	`formerlychuck`

A logout button is added to the bottom of the side menu bar on the left of the page. This button is available on all pages within the project.

No additional libraries were used in the project. Everything was written in HTML, CSS, Javascript, and Django. The site should be available once initialized with `python manage.py runserver` in the `annotationsite` folder. (Tested in Brave/Chrome only)

A complete list of all the image's sources used in the website can be found in the text file named "citations.txt" inside the image folder. A list of sources for specific functions that were implemented were listed in views.py. Bing AI was used to help set up Django since there was little clue as to which file does what in the Django project structure in terms of initializing and setting up the project.

Note: Hi! I don't know if the Django project is exporting properly. I'm just dumping the entire project file directly from my computer on github. If it does not run for you or if the user credentials are not working properly, please email me ASAP. I will try and update the Github repository ASAP. Thanks!