

MICHIGAN STATE
UNIVERSITY

Alpha Presentation

TARA

The Capstone Experience

Team TechSmith

Aryan Verma

Carson Farrell

Daniyal Dar

Michael Montgomery III

Peter Song

Simon Harmata

Department of Computer Science and Engineering

Michigan State University

Fall 2022

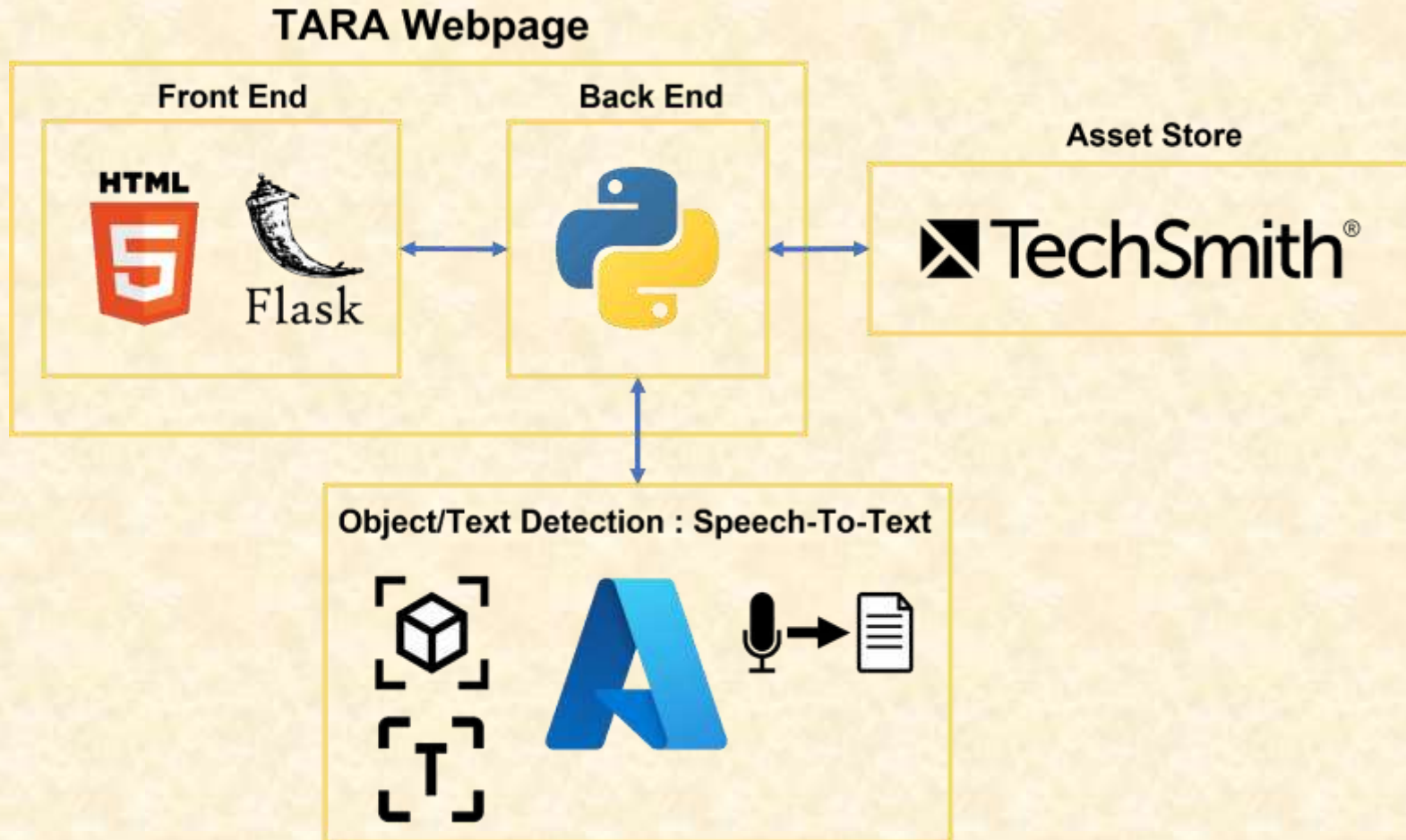


*From Students...
...to Professionals*

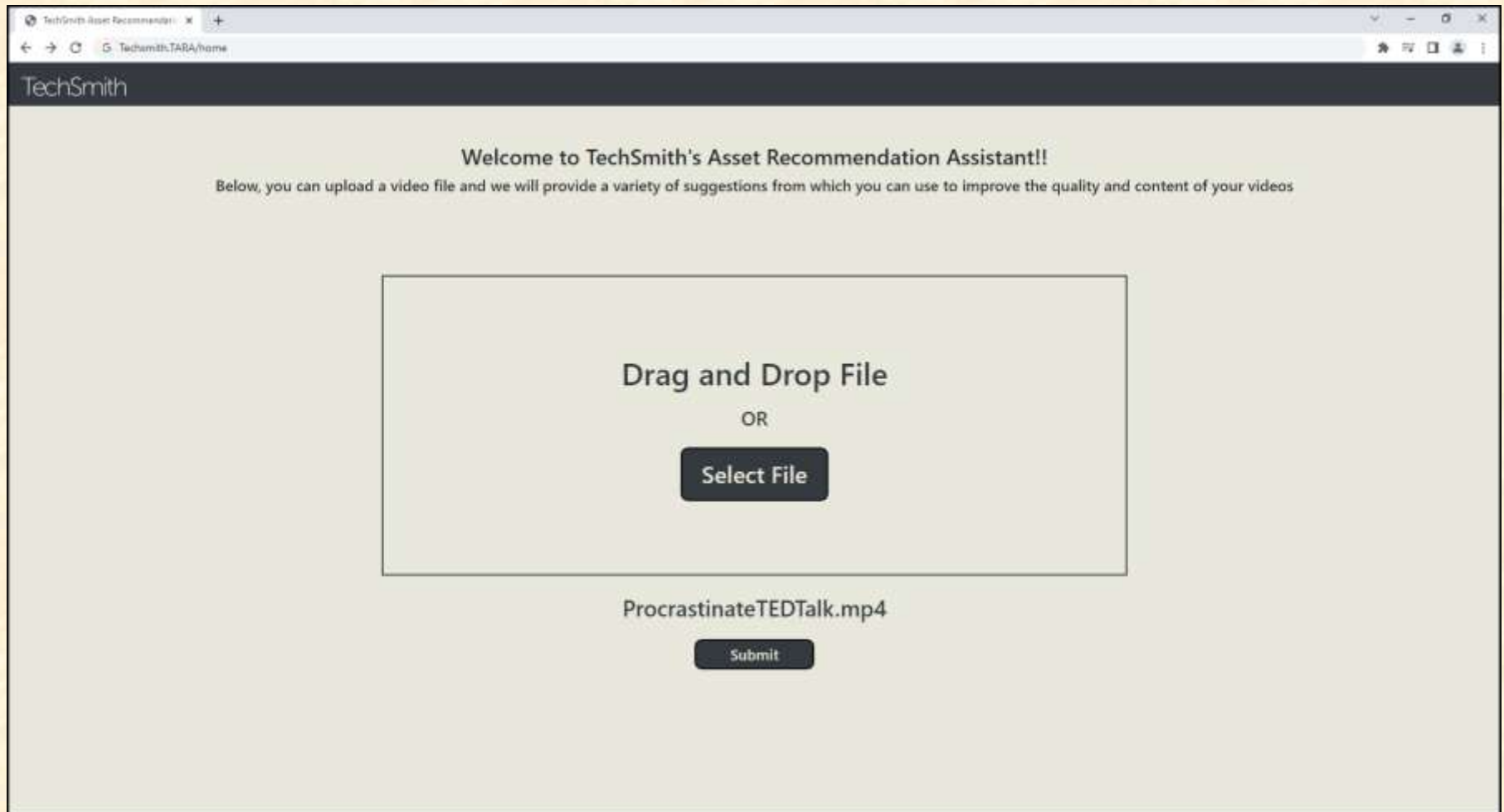
Project Overview

- Video is widely used
- Editing process can be difficult
- Time consumption
- TARA provides complimenting assets

System Architecture



File Submission



The screenshot shows a web browser window with the URL "TechSmithTARA/home". The page has a dark header with the "TechSmith" logo. The main content area is light gray and contains the following text:

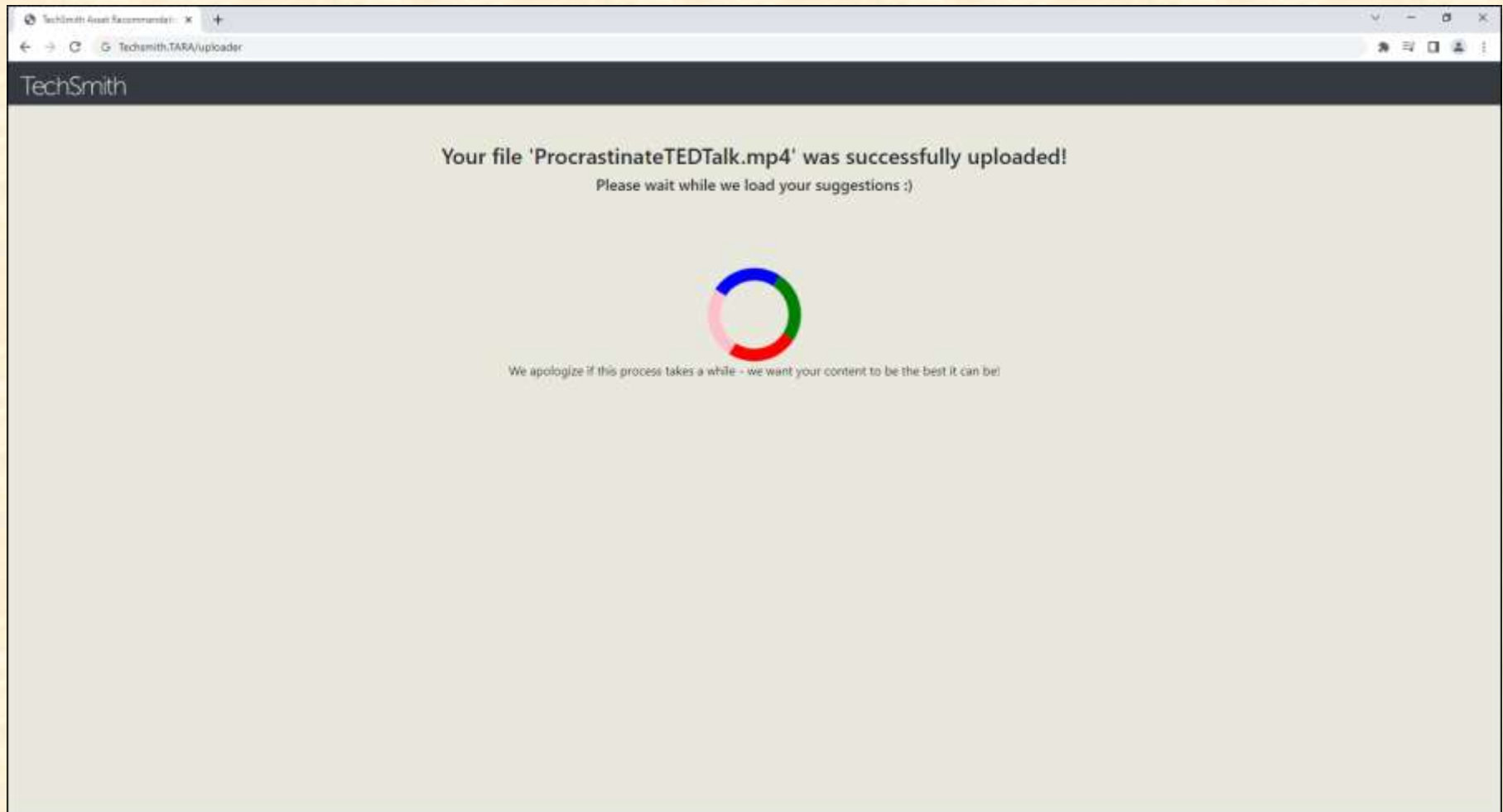
Welcome to TechSmith's Asset Recommendation Assistant!!

Below, you can upload a video file and we will provide a variety of suggestions from which you can use to improve the quality and content of your videos

In the center, there is a large rectangular box with a thin gray border. Inside this box, the text "Drag and Drop File" is displayed in a large, bold font. Below this text, the word "OR" is centered. Underneath "OR", there is a dark gray button with the text "Select File" in white.

Below the central box, the filename "ProcrastinateTEDTalk.mp4" is displayed. Directly beneath the filename is a dark gray button with the text "Submit" in white.

Loading Page



Asset Recommendation Example 1

The screenshot displays the TechSmith Asset Recommendation interface. At the top, the browser address bar shows "TechSmith.TARA/results". The TechSmith logo is in the top left corner. Below the logo, a heading reads "Below are your recommended suggestions for improving the content of your video". A subtext explains: "You can either scroll through the video, or click on a suggestion in the panel on the right, and it will show our TechSmith Asset Store recommendation for that certain point in the video."

The main video player shows a man speaking on a stage. Below the video player is a timeline with five thumbnails: a man speaking, a diagram of a dome structure, a man speaking, a TED logo, and a man speaking. To the right of the video player is a sidebar with asset recommendations. The first recommendation is an "Inspirational Typographic Quote" with the text "What ever you decide to do make sure it makes you happy." and keywords "picture, big, makes". The second recommendation is a "young man makes a big jump" with keywords "picture, big, makes".



Asset Recommendation Example 2


TechSmith Asset Recommendation

TechSmithTARA/resultsPage

TechSmith

Below are your recommended suggestions for improving the content of your video

You can either scroll through the video, or click on a suggestion in the panel on the right, and it will show our TechSmith Asset Store recommendation for that certain point in the video.



The screenshot displays a web browser window with the TechSmith TARA results page. The main content area features a video player showing a TED talk. Below the video player is a timeline with five thumbnails: a black frame, a text slide titled 'My 30 day challenges', a scene of a person on a stage, a bar chart, and a person standing. To the right of the video player is a panel of asset recommendations. The top recommendation is a red background with the text 'shutterstock.com - 11075296'. Below it is a description: 'Asset: Alarm clock on rural road. Morning routine concept.' and keywords: 'Keywords extracted from file for this asset: day, habit'. The bottom recommendation is a photo of a pink alarm clock on a road with a car in the background, with the text 'shutterstock.com - 727866175'.

shutterstock.com - 11075296

Asset:
Alarm clock on rural road. Morning routine concept

Keywords extracted from file for this asset:
day, habit

shutterstock.com - 727866175



What's left to do?

- Object Detection
- Azure Database
- Login Credentials
- Enhance UI/UX
- Optimize Recommended Assets
- Summarizer Conditions

Questions?

?

?

?

?

?

?

?

?

?

