

**MICHIGAN STATE**  
**UNIVERSITY**

# Beta Presentation

# Smart Automatic Video Creation

The Capstone Experience

Team TechSmith

James Davison

Scott James

Patrick Renner

Mingzhu Wei

Jiaqi Zuo



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

Department of Computer Science and Engineering  
Michigan State University  
Fall 2019

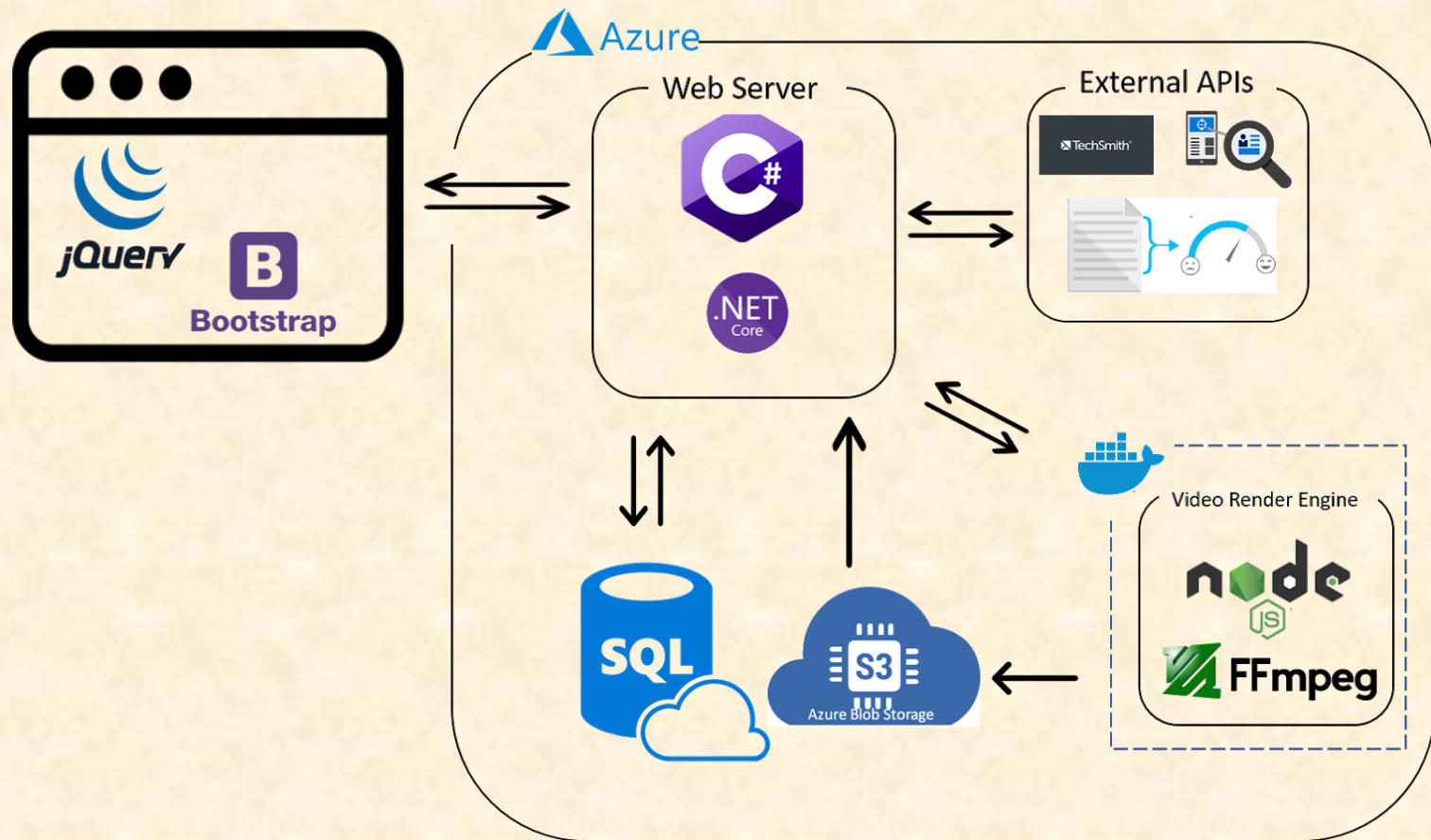
# Project Overview

---

- Automatically generate videos based on scripts
- Users can log in to create/manage projects
- Users can review and edit generated videos
- Allows the user to translate the text to different languages



# System Architecture



# Project Creation

The screenshot shows a web browser window with the address bar displaying "smartvideocreationbeta.azurewebsites.net/Home/CreateProject". The page header includes the TechSmith logo, the text "Smart Automatic Video Creation", and a user greeting "Hello rennerp1@msu.edu!" with links for "My Projects" and "Logout".

## Create Project

TechSmith provides software that empowers people to communicate more effectively by easily creating visual content such as images and video. Their flagship products, Snagit and Camtasia, are used by more than 30 million people worldwide.

Creating videos is a difficult, lengthy, and potentially expensive process. Many content creators are looking for an efficient way to automate the video creation pipeline.

Our Smart Automatic Video Creation platform automatically generates high quality, unique videos based on a single text input.

In particular, our system takes any script or article as input and automatically creates video content composed of relevant images,

TechSmith provides software that empowers people to communicate more effectively by easily creating visual content such as images and video.

Our Smart Automatic Video Creation platform automatically generates high quality, unique videos based on a single text input.

In particular, our system takes any script or article as input and automatically creates video content composed of relevant images, videos/animations, sounds, and text annotations.

After the visual components of the video are selected, the text is again analyzed for sentiment.

Smart Automatic Video C   **Get Summary**   **Create Project**



# Keyword/Asset Selection

The screenshot shows a web browser window with the URL `smartvideocreationbeta.azurewebsites.net/Home/Review/104`. The page header includes the TechSmith logo, the text "Smart Automatic Video Creation", and a user greeting "Hello rennerp1@msu.edu!" with links for "My Projects" and "Logout".

## Review Smart Automatic Video Creation

### Translation

English

### Slides

TechSmith provides software that empowers people to communicate more effectively by easily creating visual content such as images and video.

Search Assets Saved

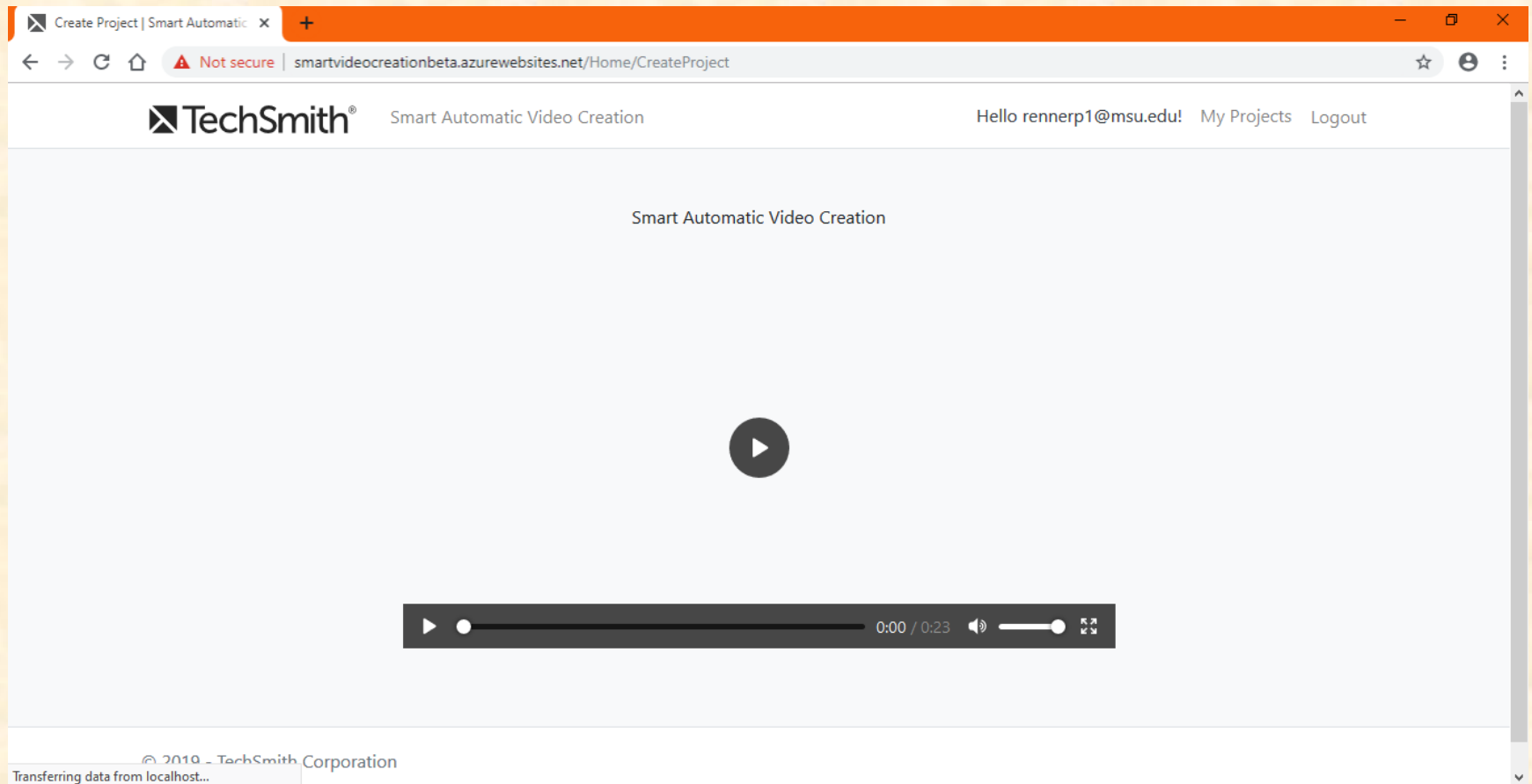
Our Smart Automatic Video Creation platform automatically generates high quality, unique videos based on a single text input.

Search Assets Save Slide

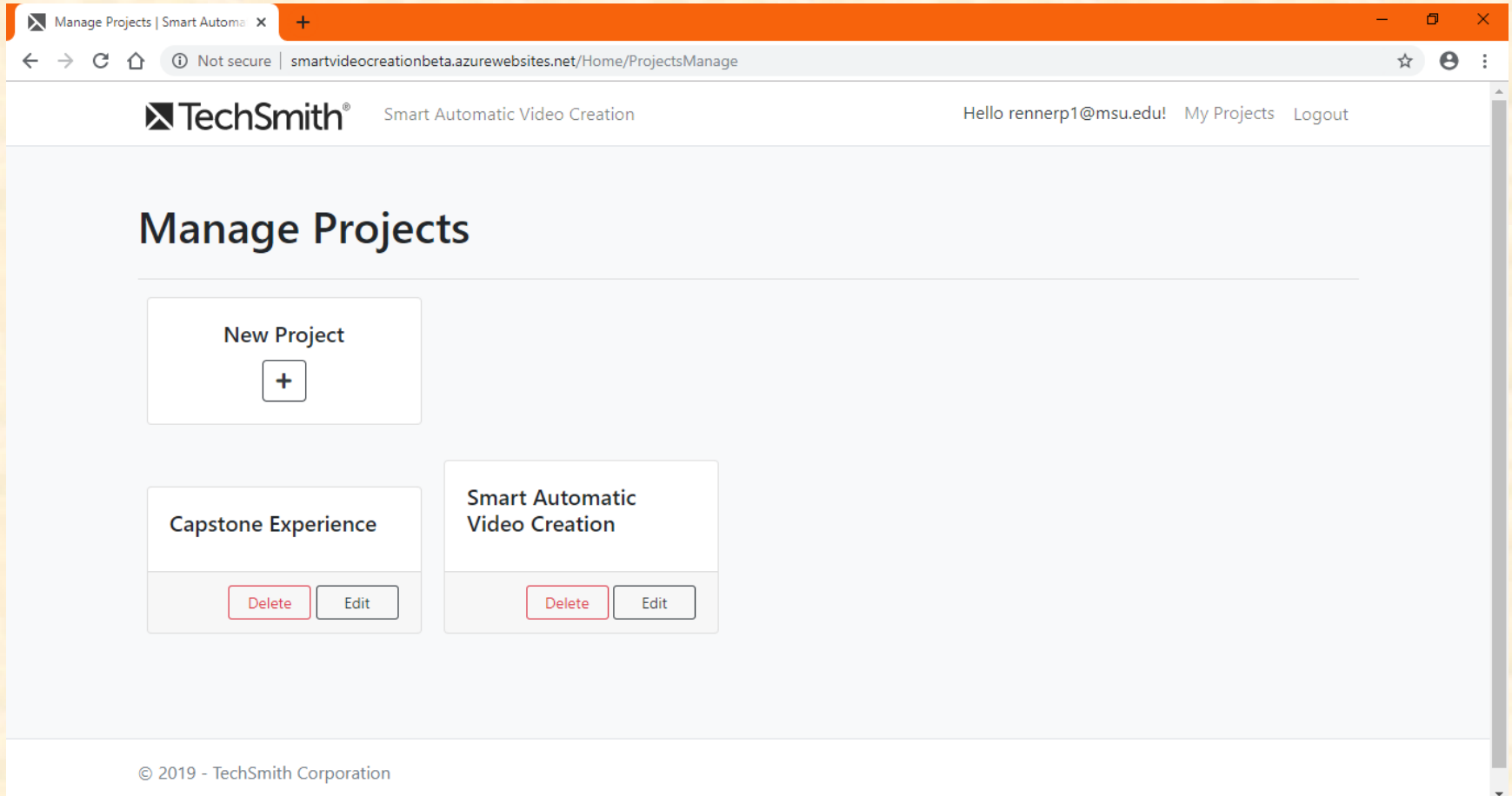
In particular, our system takes any script or article as input and automatically creates video content composed of relevant images, videos/animations, sounds, and text annotations.



# Video Display



# Manage Projects



The screenshot shows a web browser window with the following elements:

- Browser Tab:** "Manage Projects | Smart Autom..."
- Address Bar:** "Not secure | smartvideocreationbeta.azurewebsites.net/Home/ProjectsManage"
- Header:**
  - TechSmith®** logo and "Smart Automatic Video Creation" text.
  - User greeting: "Hello rennerp1@msu.edu!"
  - Links: "My Projects" and "Logout".
- Main Content Area:**
  - Manage Projects** title.
  - New Project** button with a "+" icon.
  - Capstone Experience** project card with "Delete" and "Edit" buttons.
  - Smart Automatic Video Creation** project card with "Delete" and "Edit" buttons.
- Footer:** "© 2019 - TechSmith Corporation"

# What's left to do?

---

- Allow the user to select between automatic and manual video creation
- Display currently used assets and keywords in the project edit page
- Provide functionality to support multiple videos being created at the same time



# Questions?

---

?

?

?

?

?

?

?

?

?