

MICHIGAN STATE

UNIVERSITY

Alpha Presentation

Smart Automatic Video Creation

The Capstone Experience

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

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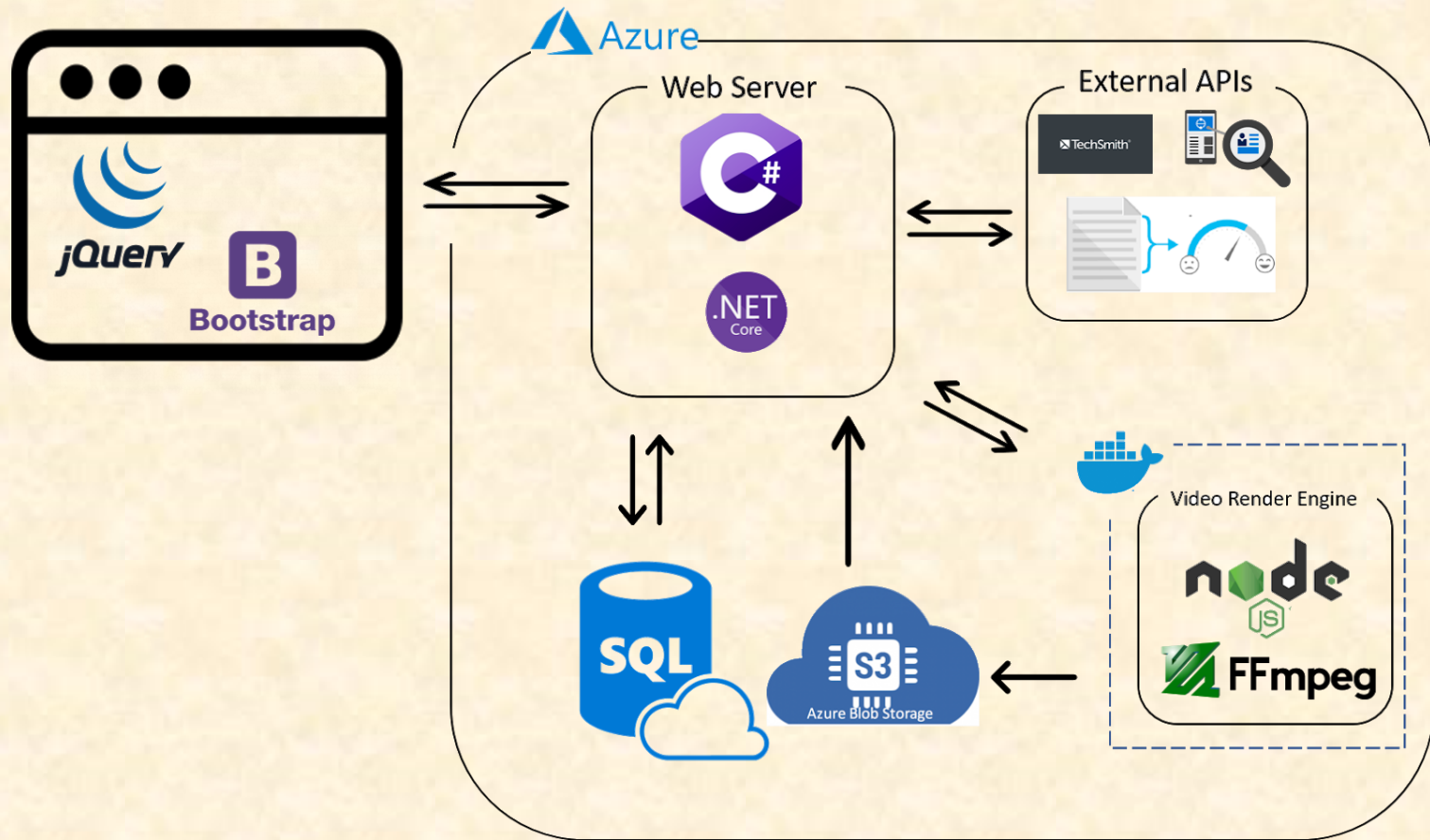
Fall 2019

Project Overview

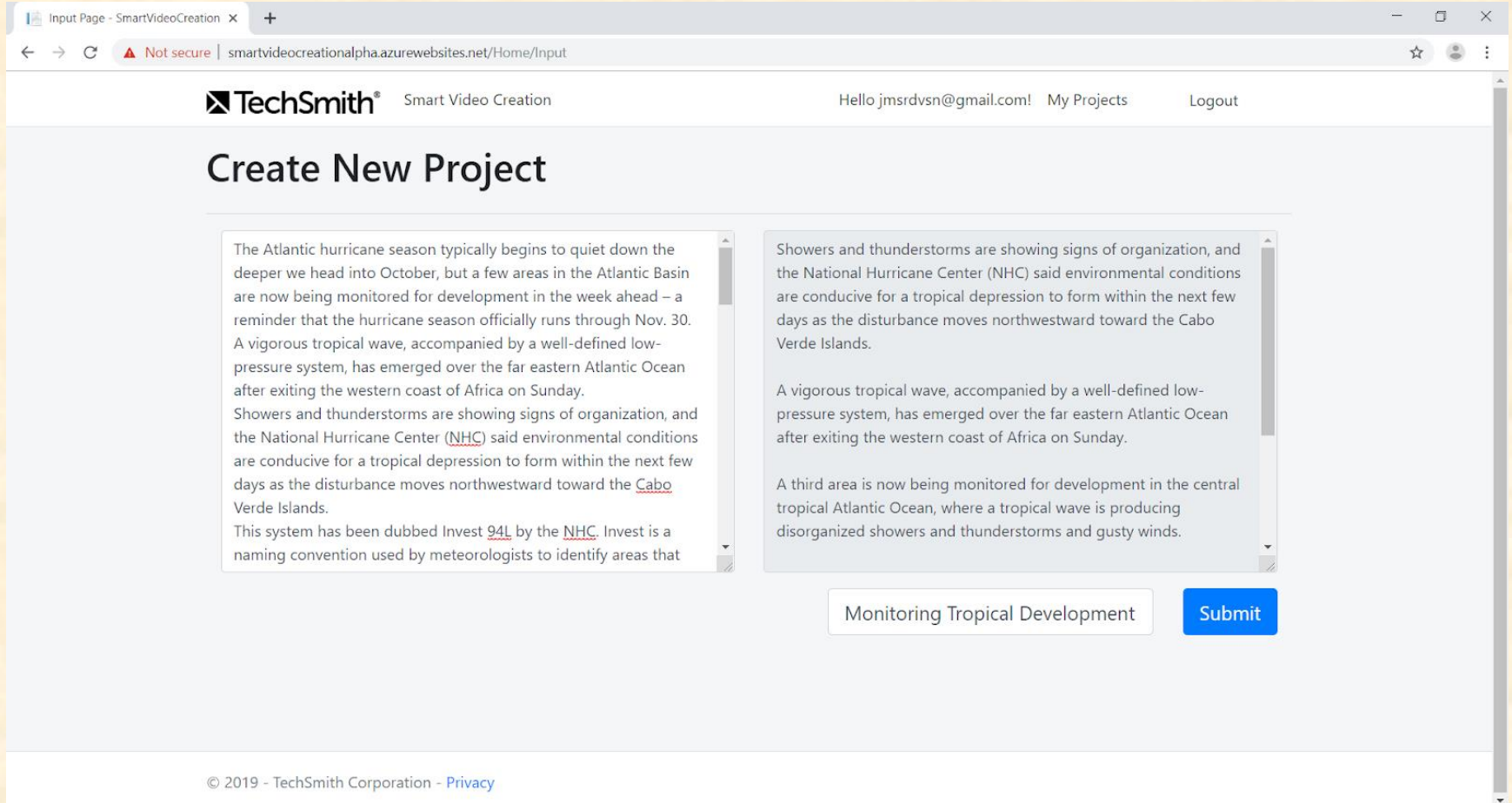
- Automatically generate videos based on scripts
- Users can log in to create/manage projects
- Users can review and edit generated videos
- Handle multiple languages as input for video generation



System Architecture



Preview of Text Summarization



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

- Browser Tab:** Input Page - SmartVideoCreation x
- Address Bar:** Not secure | smartvideocreationalpha.azurewebsites.net/Home/Input
- Page Header:** TechSmith® Smart Video Creation | Hello jmsrdvsn@gmail.com! | My Projects | Logout
- Section Header:** Create New Project
- Text Input Area (Left):**

The Atlantic hurricane season typically begins to quiet down the deeper we head into October, but a few areas in the Atlantic Basin are now being monitored for development in the week ahead – a reminder that the hurricane season officially runs through Nov. 30. A vigorous tropical wave, accompanied by a well-defined low-pressure system, has emerged over the far eastern Atlantic Ocean after exiting the western coast of Africa on Sunday. Showers and thunderstorms are showing signs of organization, and the National Hurricane Center (NHC) said environmental conditions are conducive for a tropical depression to form within the next few days as the disturbance moves northwestward toward the Cabo Verde Islands. This system has been dubbed Invest 94L by the NHC. Invest is a naming convention used by meteorologists to identify areas that
- Text Input Area (Right):**

Showers and thunderstorms are showing signs of organization, and the National Hurricane Center (NHC) said environmental conditions are conducive for a tropical depression to form within the next few days as the disturbance moves northwestward toward the Cabo Verde Islands.

A vigorous tropical wave, accompanied by a well-defined low-pressure system, has emerged over the far eastern Atlantic Ocean after exiting the western coast of Africa on Sunday.

A third area is now being monitored for development in the central tropical Atlantic Ocean, where a tropical wave is producing disorganized showers and thunderstorms and gusty winds.
- Buttons:** Monitoring Tropical Development (disabled), Submit (active)
- Footer:** © 2019 - TechSmith Corporation - Privacy



Wait for Video Generation

Review Page - SmartVideoCreation

smartvideocreationalpha.azurewebsites.net/ProjectReview

TechSmith® Smart Video Creation

Hello jmsrdvsn@gmail.com! My Projects Logout

Summary

Monitoring Tropical Development

Showers and thunderstorms are showing signs of organization, and the National Hurricane Center (NHC) said environmental conditions are conducive for a tropical depression to form within the next few days as the disturbance moves northwestward toward the Cabo Verde Islands.

Key Words

tropical depression, possible tropical development, vigorous tropical wave, central tropical Atlantic Ocean, thunderstorms, eastern Atlantic Ocean, disorganized showers, typical areas, western Caribbean Sea, western coast of Africa, NHC, environmental conditions, National Hurricane Center, signs of organization, gusty winds,

TRANSLATE EDIT DOWNLOAD

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Review Generated Video

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

- Browser Tab:** Review Page - SmartVideoCreati...
- Address Bar:** smartvideocreationalpha.azurewebsites.net/Home/PageReview
- Page Header:** TechSmith® Smart Video Creation. User: Hello jmsrdvsn@gmail.com! | My Projects | Logout
- Section: Summary**

Showers and thunderstorms are showing signs of organization, and the National Hurricane Center (NHC) said environmental conditions are conducive for a tropical depression to form within the next few days as the disturbance moves northwestward toward the Cabo Verde Islands.
- Section: Key Words**

tropical depression, possible tropical development, vigorous tropical wave, central tropical Atlantic Ocean, thunderstorms, eastern Atlantic Ocean, disorganized showers, typical areas, western Caribbean Sea, western coast of Africa, NHC, environmental conditions, National Hurricane Center, signs of organization, gusty winds,
- Video Player:** Monitoring Tropical Development. Video thumbnail shows a storm over the ocean. Playback controls show 0:00 / 0:22.
- Buttons:** TRANSLATE, EDIT, DOWNLOAD
- Footer:** © 2019 - TechSmith Corporation - Privacy



Manage Projects

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

- Browser Tab:** My Projects - SmartVideoCreation
- Address Bar:** smartvideocreationalpha.azurewebsites.net/Home/ProjectsManage
- Page Header:** TechSmith® Smart Video Creation | Hello jmsrdvsn@gmail.com! | My Projects | Logout
- Main Content:**
 - My Projects** (Section Title)
 - New Project** (Action Button)
 - World Record Set at Chigago Marathon** (Project Card) with **Edit** and **Delete** buttons.
 - Monitoring Tropical Development** (Project Card) with **Edit** and **Delete** buttons.
- Footer:** © 2019 - TechSmith Corporation - Privacy



What's left to do?

- Add functionality to handle the processing of multiple videos at the same time
- Allow users to choose what assets to use for video creation
- Improve website stability and security



Questions?

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