

MICHIGAN STATE
UNIVERSITY

Alpha Presentation Smart Camera

The Capstone Experience

Team TechSmith

Nathan Anthony

Drew Bensinger

Omo Irumundomon

Amy Kim

Zhaolin Liu



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

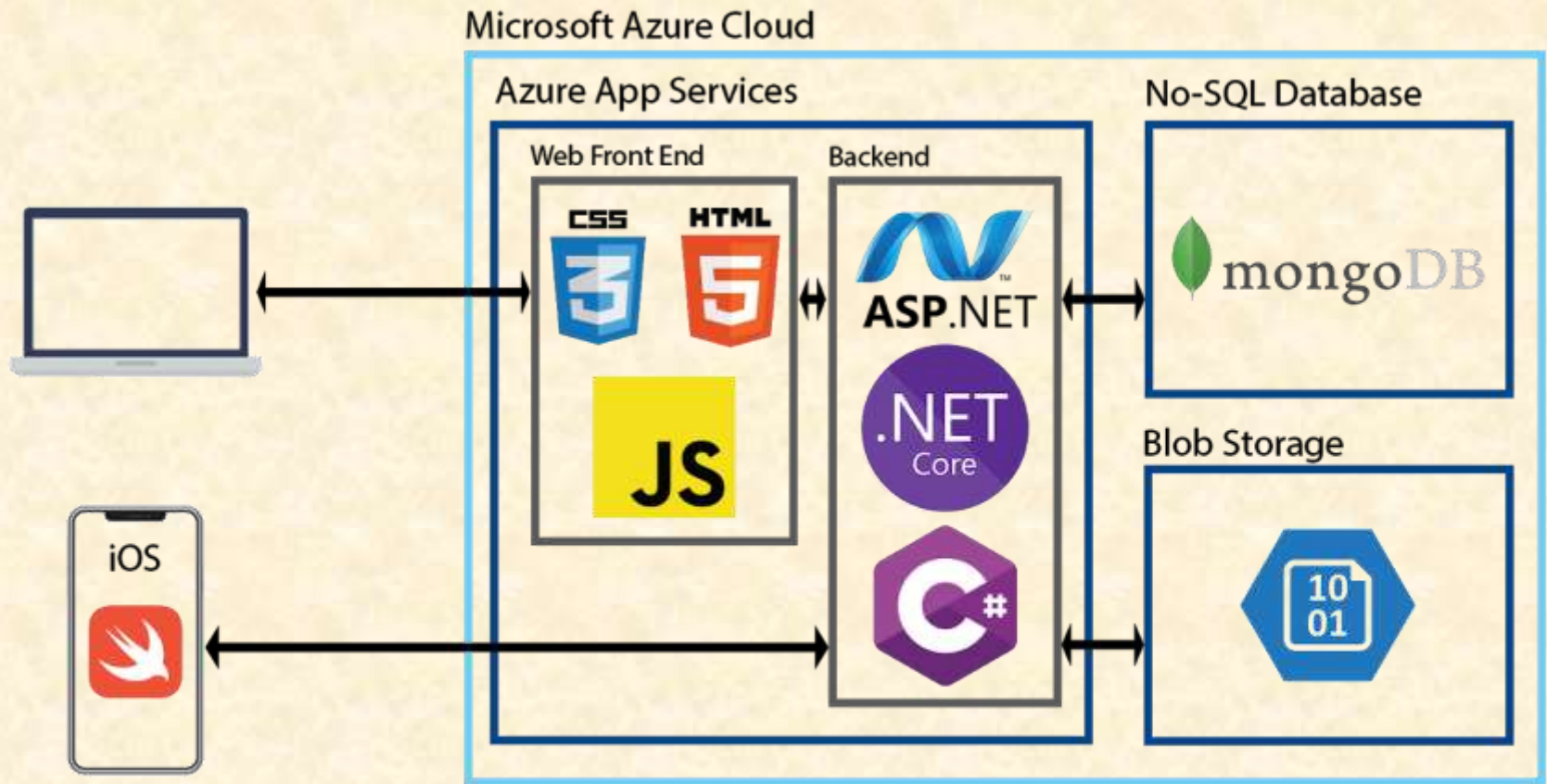
Department of Computer Science and Engineering
Michigan State University
Spring 2020

Project Overview

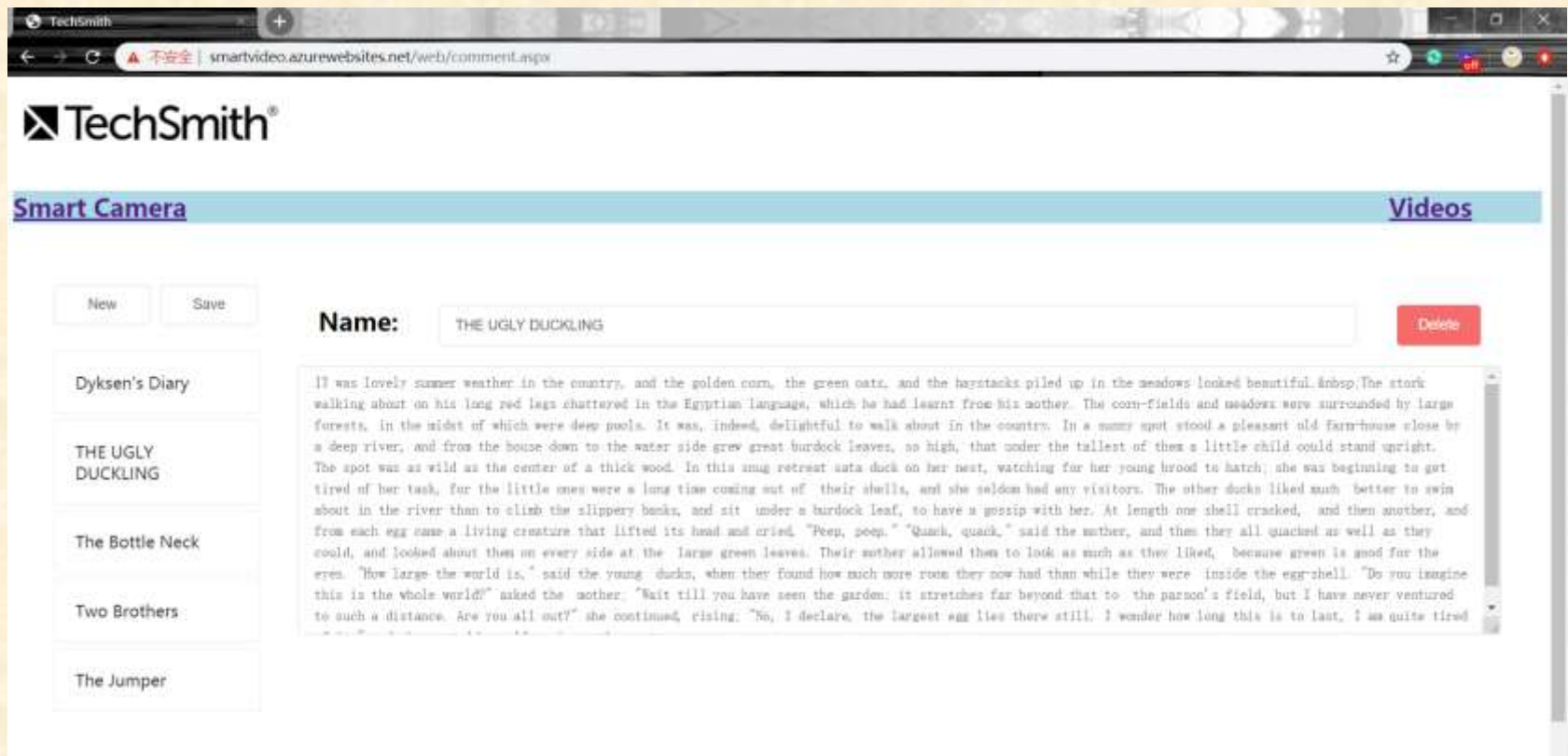
- Assist amateur filmmakers in creating high quality and engaging video content for training or demo purposes
- Factors that contribute to less than ideal content
 - No Planning
 - Bad Lighting
 - White Balance
 - Poor Framing of Shots
 - Scripts



System Architecture



Editing and Saving Scripts



The screenshot shows a web browser window with the URL `smartvideo.azurewebsites.net/web/comment.aspx`. The page features the TechSmith logo and a navigation bar with "Smart Camera" and "Videos" links. On the left, a sidebar lists script titles: "Dyksen's Diary", "THE UGLY DUCKLING" (selected), "The Bottle Neck", "Two Brothers", and "The Jumper". The main area displays the selected script's name in a "Name:" field and a large text area containing the full text of "The Ugly Duckling". A "Delete" button is visible in the top right corner of the script editing area.

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Smart Camera Videos

New Save

Name: THE UGLY DUCKLING Delete

Dyksen's Diary

THE UGLY DUCKLING

The Bottle Neck

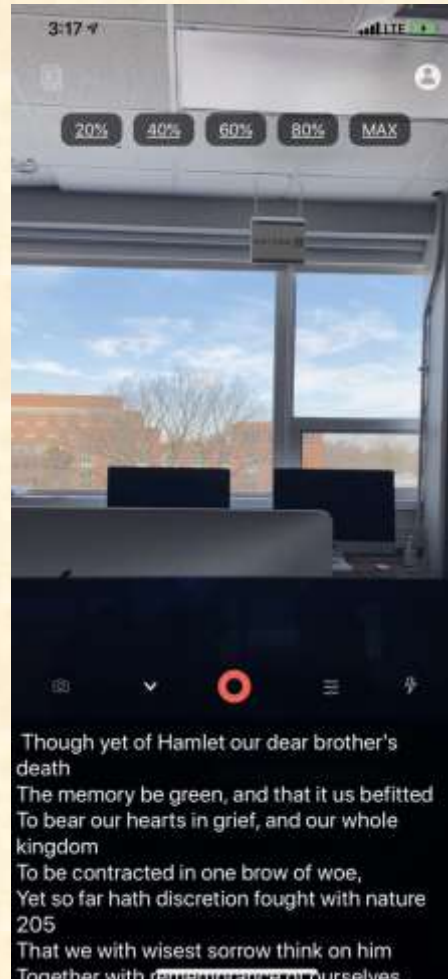
Two Brothers

The Jumper

It was lovely summer weather in the country, and the golden corn, the green oats, and the haystacks piled up in the meadows looked beautiful. The stork walking about on his long red legs chattered in the Egyptian language, which he had learnt from his mother. The corn-fields and meadows were surrounded by large forests, in the midst of which were deep pools. It was, indeed, delightful to walk about in the country. In a sunny spot stood a pleasant old farm-house close by a deep river, and from the house down to the water side grew great burdock leaves, so high, that under the tallest of them a little child could stand upright. The spot was as wild as the center of a thick wood. In this snug retreat sat a duck on her nest, watching for her young brood to hatch; she was beginning to get tired of her task, for the little ones were a long time coming out of their shells, and she seldom had any visitors. The other ducks liked much better to swim about in the river than to climb the slippery banks, and sit under a burdock leaf, to have a gossip with her. At length one shell cracked, and then another, and from each egg came a living creature that lifted its head and cried, "Peep, peep." "Quack, quack," said the mother, and then they all quacked as well as they could, and looked about them on every side at the large green leaves. Their mother allowed them to look as much as they liked, because green is good for the eyes. "How large the world is," said the young ducks, when they found how much more room they now had than while they were inside the egg-shell. "Do you imagine this is the whole world?" asked the mother. "Wait till you have seen the garden; it stretches far beyond that to the parson's field, but I have never ventured to such a distance. Are you all out?" she continued, rising. "No, I declare, the largest egg lies there still. I wonder how long this is to last, I am quite tired



Scalable Teleprompter



Importing New Script



Lighting Feedback



What's left to do?

- Improve feedback for face detection
- Import the scripts stored in database
- Implement Google login authentication
- Store videos from app to web server

Questions?

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