

**MICHIGAN STATE**  

---

**U N I V E R S I T Y**

# Beta Presentation

## Cloud Based Video Face Tracking

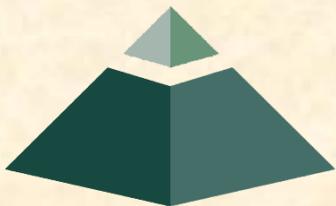
### The Capstone Experience

Team TechSmith

Alex Cramer  
Kayla Grotsky  
Eric Newman  
Alyssa Werner  
Ryan Zahm

Department of Computer Science and Engineering  
Michigan State University

Spring 2016



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

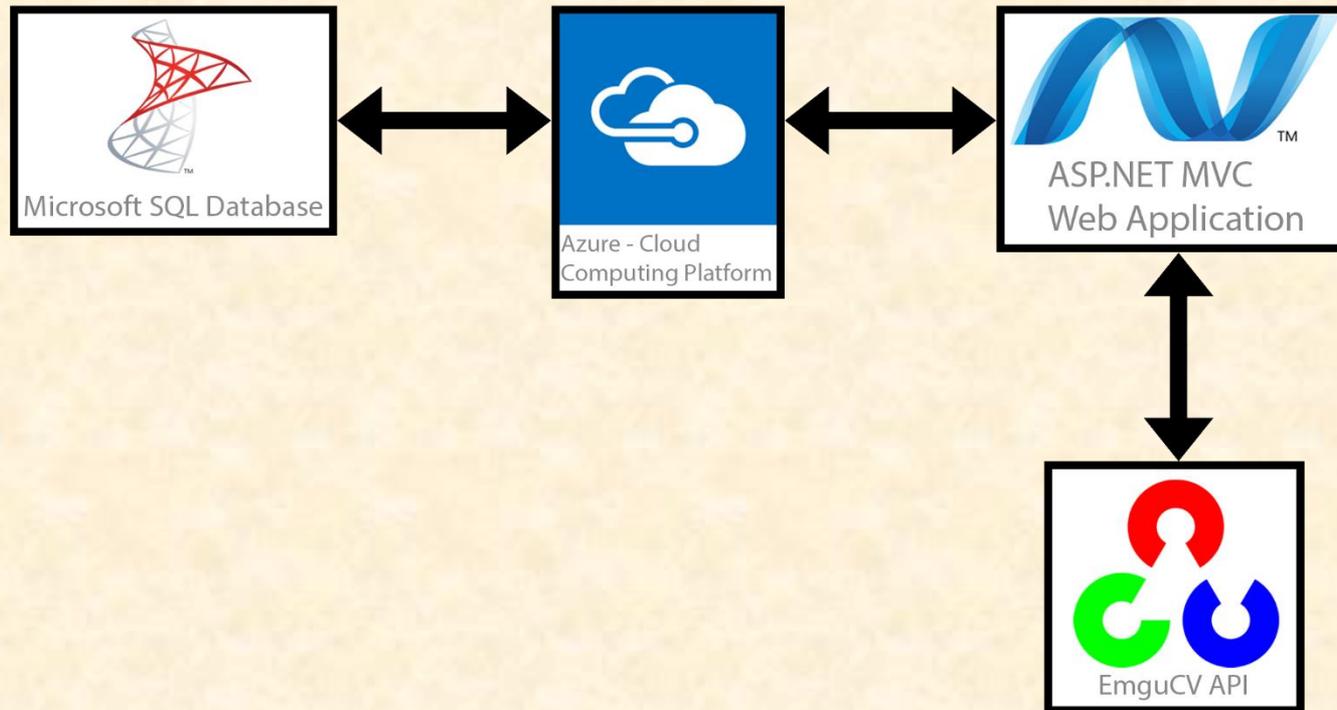
# Project Overview

---

- Automatic face tracking in videos
- Blurring or highlighting of faces supported, as well as manual editing
- Cloud based storage and management of video library
- Renders new .mp4 file with changes applied
- Provides the ability to blur or highlight faces throughout a video quickly and with ease



# System Architecture



# Login Page

Home Library Register Log in

## Log in.

Use a local account to log in.

---

Email

Password

Remember me?

[Register as a new user](#)

© 2016 - Team TechSmith - Michigan State University - Capstone - Spring 2016



# Register Page

The screenshot shows a registration page with a dark header bar containing navigation links: "Home", "Library", "Register", and "Log in". The main content area has a teal background and features the heading "Register." followed by the subtext "Create a new account." Below this is a horizontal line. The registration form consists of three input fields: "Email", "Password", and "Confirm password", each with a white input box. A "Register" button is positioned below the "Confirm password" field. At the bottom of the teal area, there is a copyright notice: "© 2016 - Team TechSmith - Michigan State University - Capstone - Spring 2016".



# Library Page

The screenshot displays a web application interface for a library. At the top, there is a dark navigation bar with 'Home' and 'Library' on the left, and 'Hello camera3@msu.edu' and 'Log off' on the right. Below the navigation bar, the main content area has a teal background. It features a heading 'Index' and a link 'Create New'. A table lists three items with columns for title, size, and actions. The first item is 'test2' with a size of 50 and actions 'Edit', 'Download', and 'Delete'. The second item is 'testdownload.exe' with a size of 100 and actions 'Edit', 'Download', and 'Delete'. The third item is 'editnewwml' with a size of 100 and actions 'Edit', 'Download', and 'Delete'. At the bottom of the page, there is a copyright notice: '© 2016 - Team TechSmith - Michigan State University - Capstone - Spring 2016'.

Title	Size	Actions
test2	50	Edit   Download   Delete
testdownload.exe	100	Edit   Download   Delete
editnewwml	100	Edit   Download   Delete

© 2016 - Team TechSmith - Michigan State University - Capstone - Spring 2016



# Editor Page

The screenshot displays a video editor interface. The central video preview shows a group of performers in red outfits, likely a choir or dance troupe, performing on a stage. Numerous small white boxes with checkmarks are overlaid on the faces of the performers, indicating face-tracking or facial recognition software. The interface includes a dark teal background with a central video window. On the left side, there are two lines of text: "7.685794" and "8.275530066225166". On the right side, there is a control panel with several input fields for "X-Start", "Y-Start", "Width", "Height", "Start", and "Duration", each with a value of "0". Below these fields are buttons for "Submit", "Undo", "Save", and "Export". At the bottom left, there is a "Play/Pause" button and a small red bar above it. The NBC peacock logo is visible in the bottom center of the video frame.

7.685794  
8.275530066225166

X-Start: 0  
Y-Start: 0  
Width: 0  
Height: 0  
Start: 0  
Duration: 0

Submit | Undo | Save | Export

Play/Pause



# What's left to do?

---

- Fine tune design
- Improve editor page interface fluidity
- Improve responsiveness within video editing process
- Project video

