

**MICHIGAN STATE**  

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

# Project Plan

## Video Review Slack Integration

### The Capstone Experience

Team TechSmith

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Conner Bean

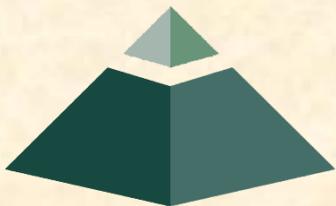
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Fall 2018



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

# Functional Specifications

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- Users currently have only one method to access TechSmith's Video Review application
- The integration will allow users to operate within Slack environments
- Preserve all TechSmith Video Review functionality within Slack
- End result will give users more versatility
  - Creating, editing, reviewing videos
  - Mobile device capabilities



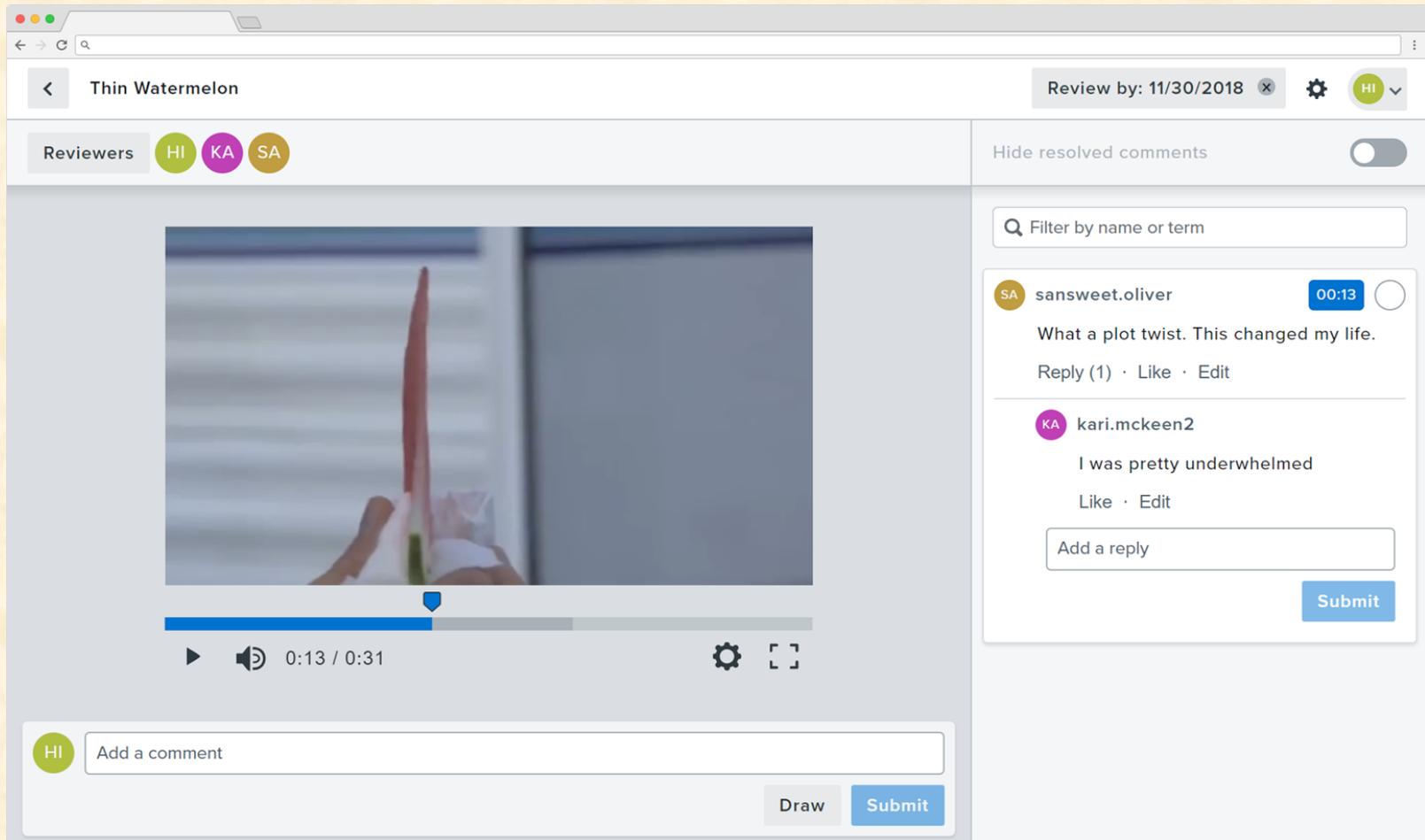
# Design Specifications

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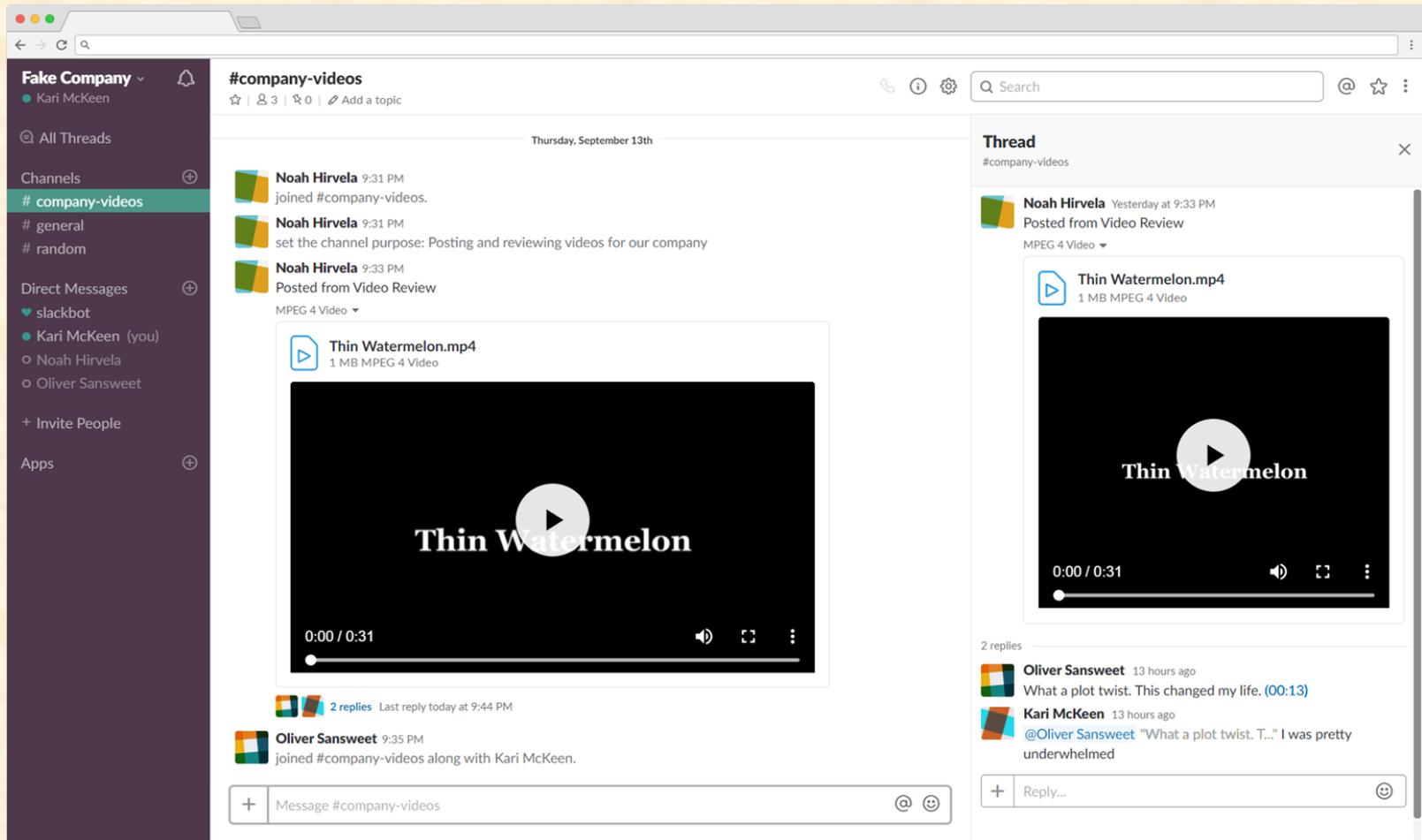
- The integration will let users work with reviews on the Slack desktop/mobile app interface
- Any reviews on the web app can be synced with Slack to update on both ends
- Reviews are displayed as shared video files on Slack within channels, and all comments are displayed within a thread for the file



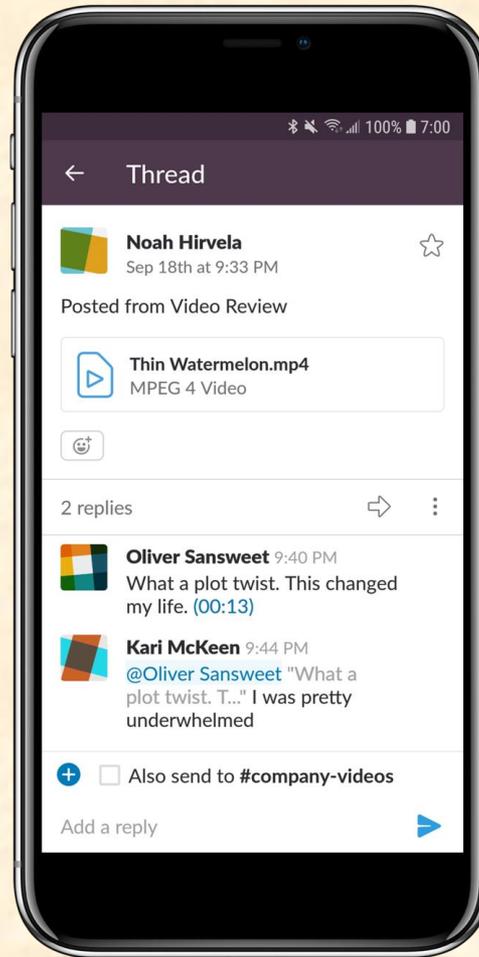
# Screen Mockup: Web App



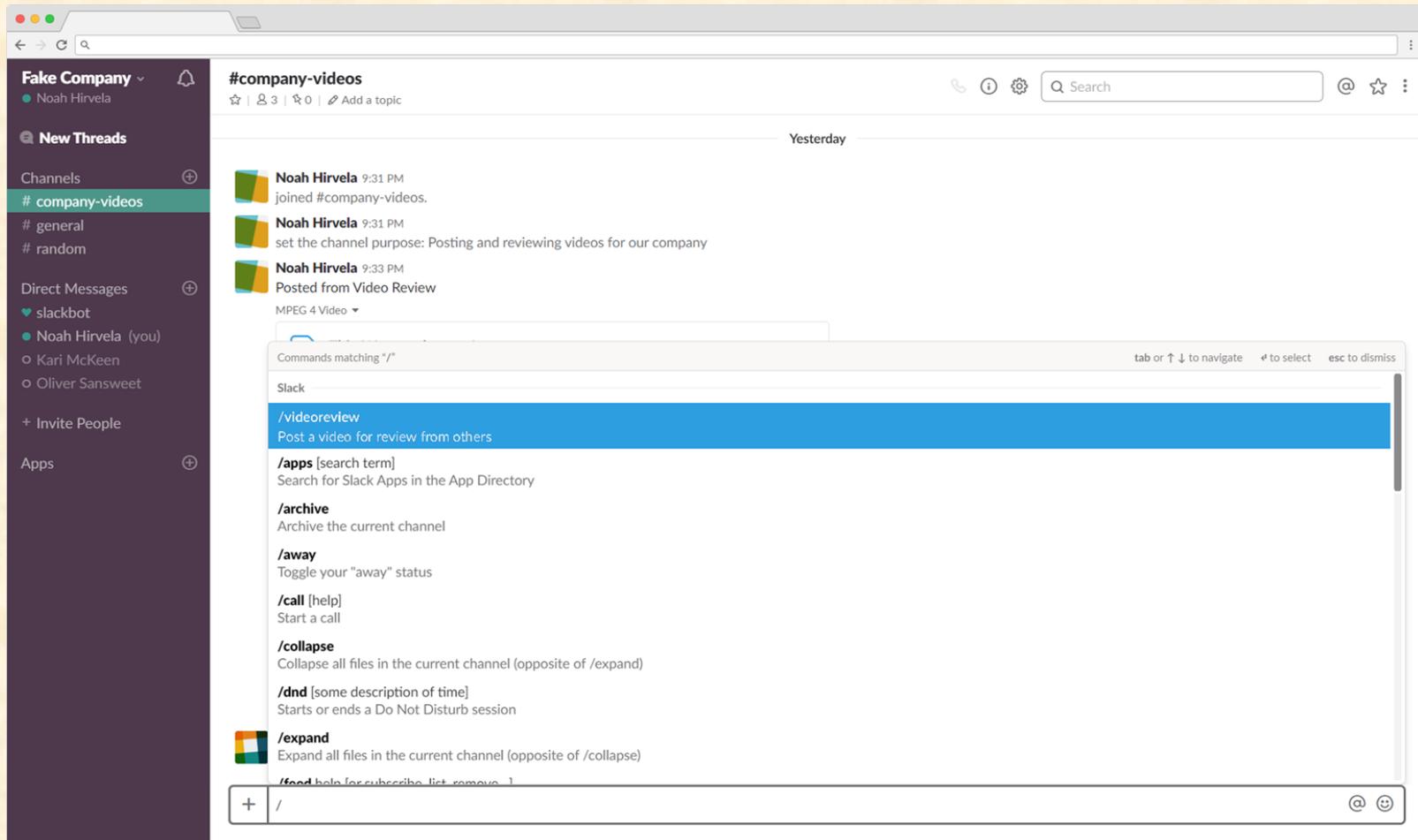
# Screen Mockup: Slack App



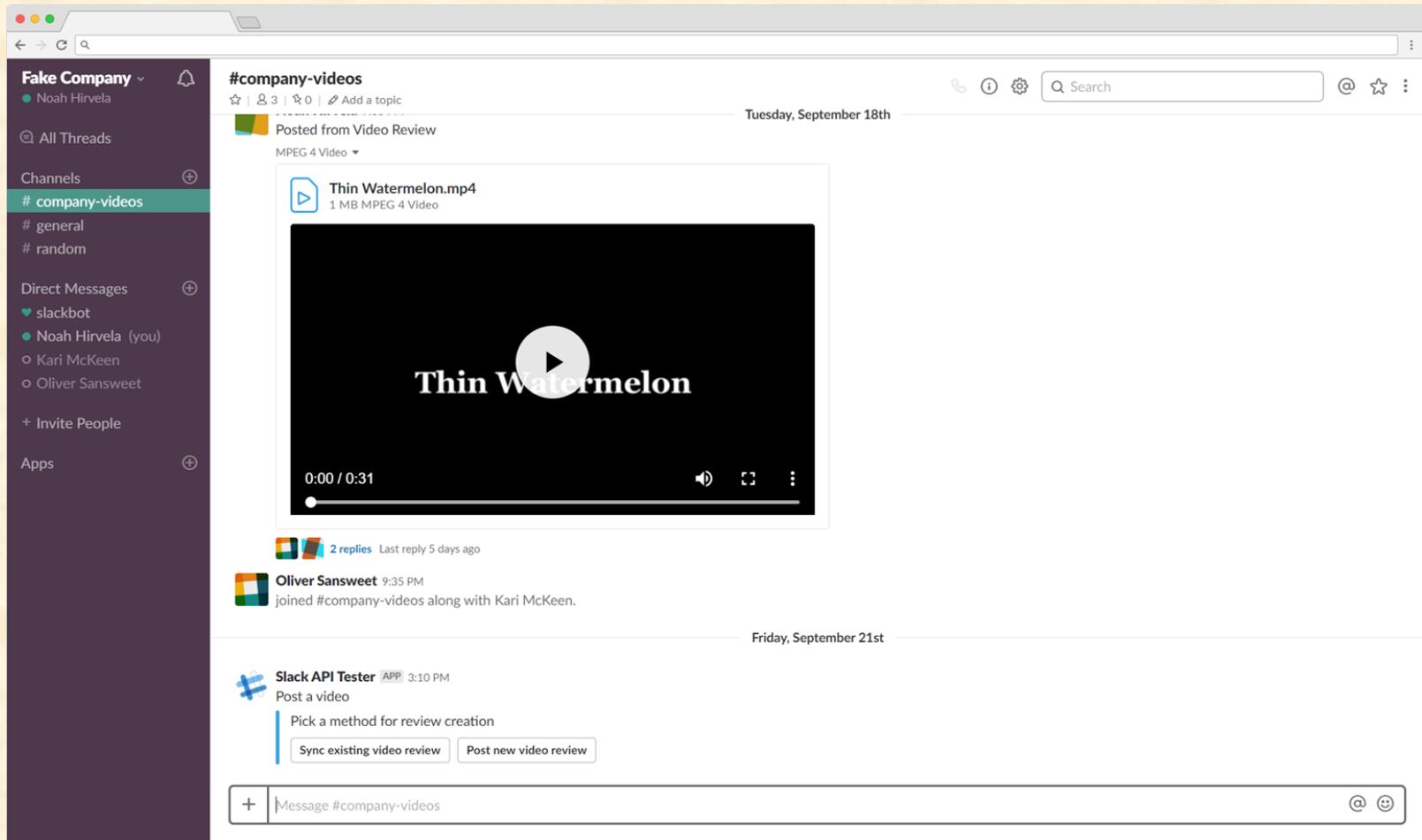
# Screen Mockup: Mobile App



# Screen Mockup: Slash Command



# Screen Mockup: Review Prompt

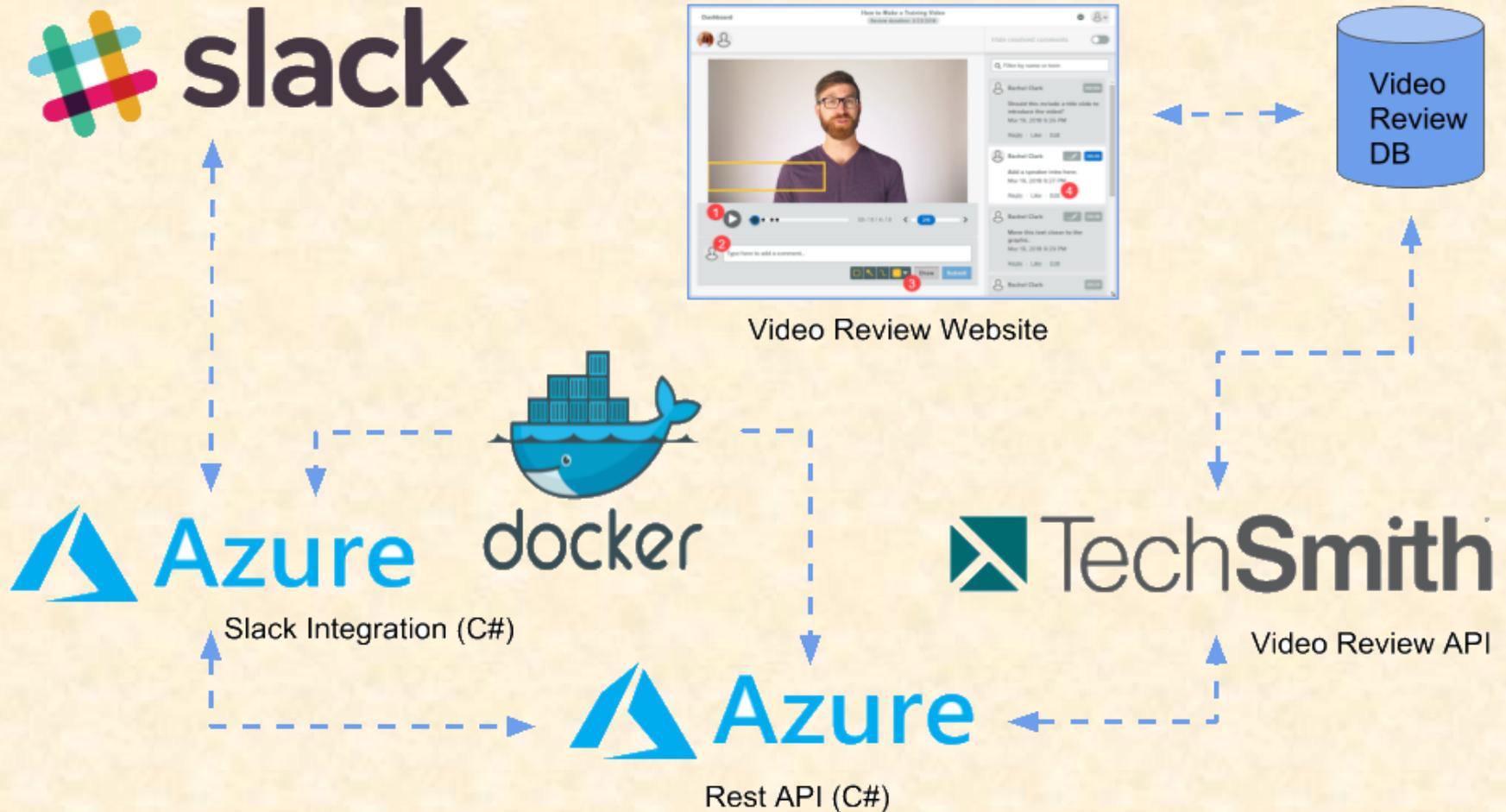


# Technical Specifications

- Two Proxy Servers
  - First proxy server in between Slack API and second proxy server
    - Utilize Slack API to post data to Slack Channels
    - Send data from Slack to second proxy server
  - Second proxy server lies in between first proxy server and TechSmith View Review API
    - Continuously pulls data from TechSmith Video Review API to send to Slack server
    - Formats requests from first proxy server to send to TechSmith Video Review API



# System Architecture



# System Components

- Software Platforms / Technologies
  - Visual Studio
    - Coding IDE for solution
  - Swagger
    - API Documentation
  - Docker
    - Container service
  - Azure
    - Cloud computing platform



# Risks

- Exploratory Nature
  - Description: There aren't many applications that integrate with Slack in this way.
  - Mitigation: Slack/Video Review API research/experimenting
- Scalability
  - Description: Creating a scalable proxy to be used for future messaging apps.
  - Mitigation: Strong design patterns



# Risks

- API Limitations
  - Description: There are limited methods in the API for the Video Review and Slack applications. Some functionalities we thought were possible may not be.
  - Mitigation: Work around the limitations and complete all that is possible.
- Translation Between UI
  - Description: Maintaining the functionality of the Video Review web app within the limitations of the Slack UI can result in an unintuitive display of reviews in the chat rooms.
  - Mitigation: Optimize Slack's chat UI to closely resemble Video Review's UI.



# Questions?

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