

MICHIGAN STATE
UNIVERSITY

Project Plan

Video Review Slack Integration

The Capstone Experience

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From Students...
...to Professionals

Functional Specifications

- 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

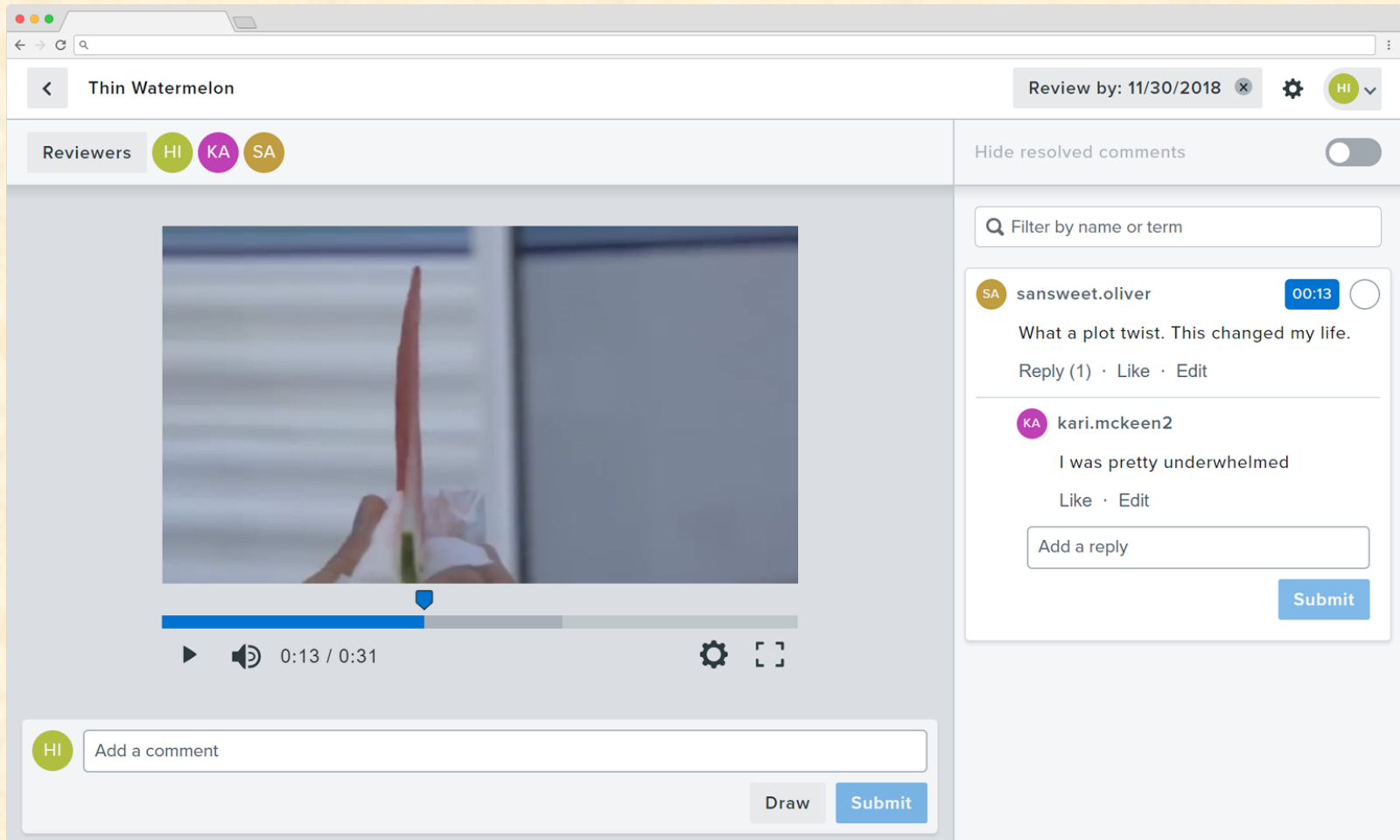


Design Specifications

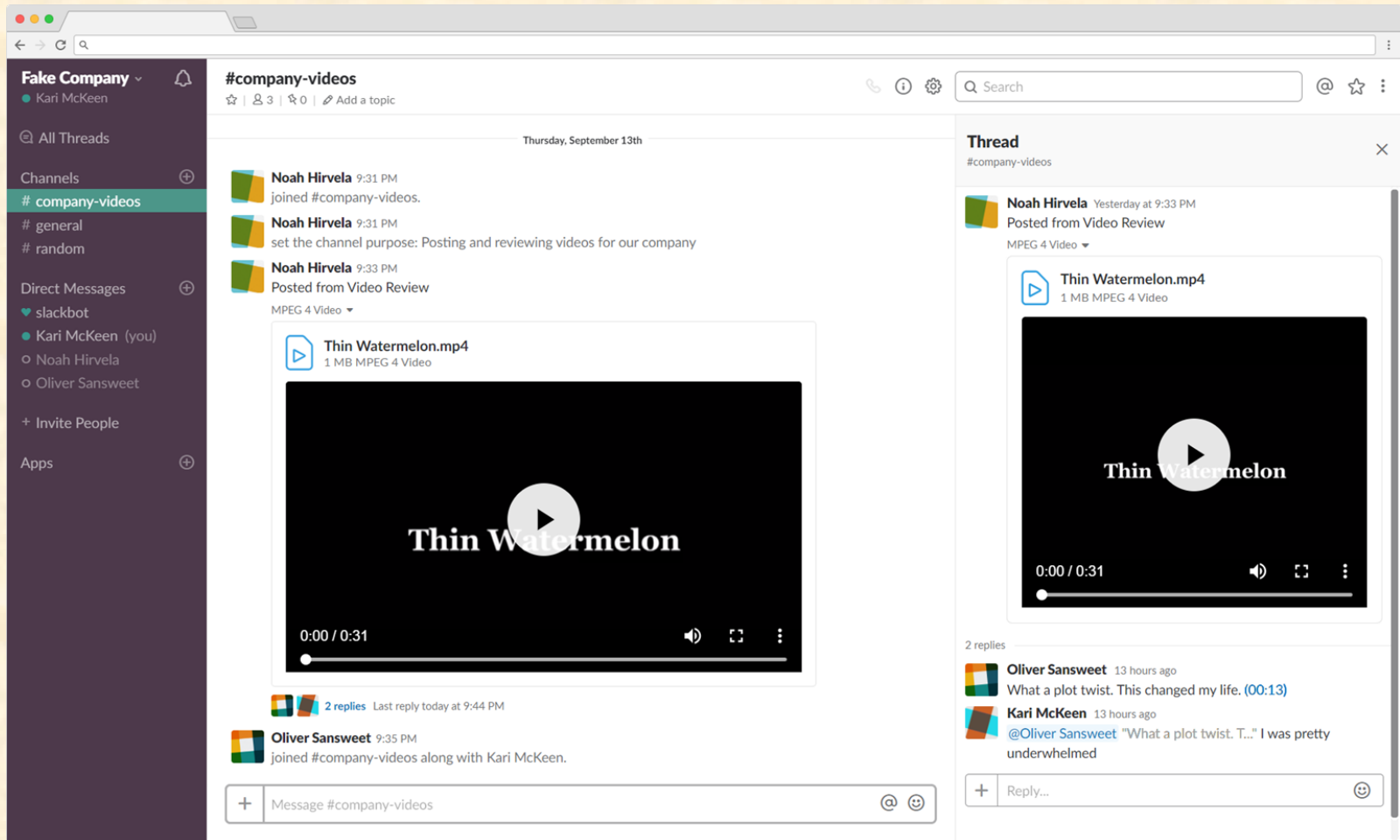
- The integration will let users work with reviews on the Slack desktop/mobile app interface
- Any reviews on the web app can be synced with Slack to update on both ends
- Reviews are displayed as shared video files on Slack within channels, and all comments are displayed within a thread for the file



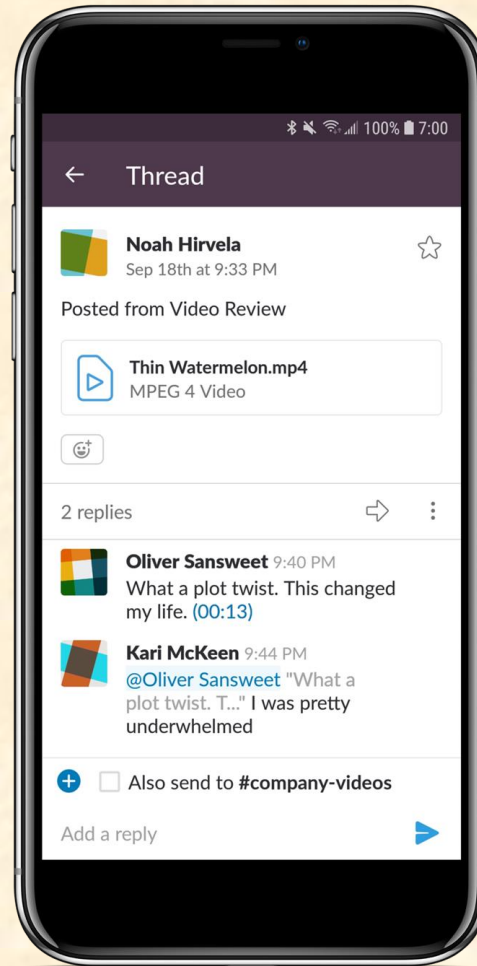
Screen Mockup: Web App



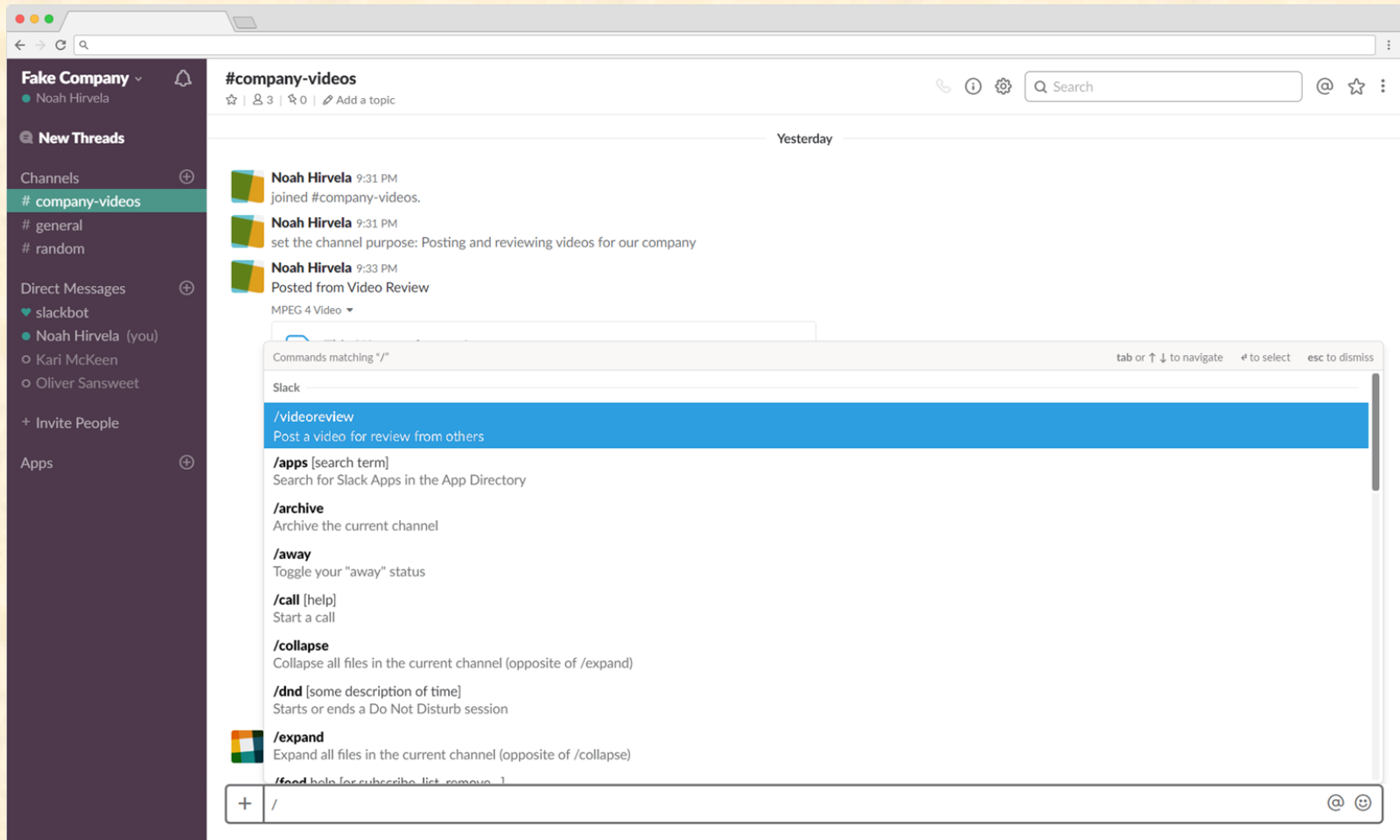
Screen Mockup: Slack App



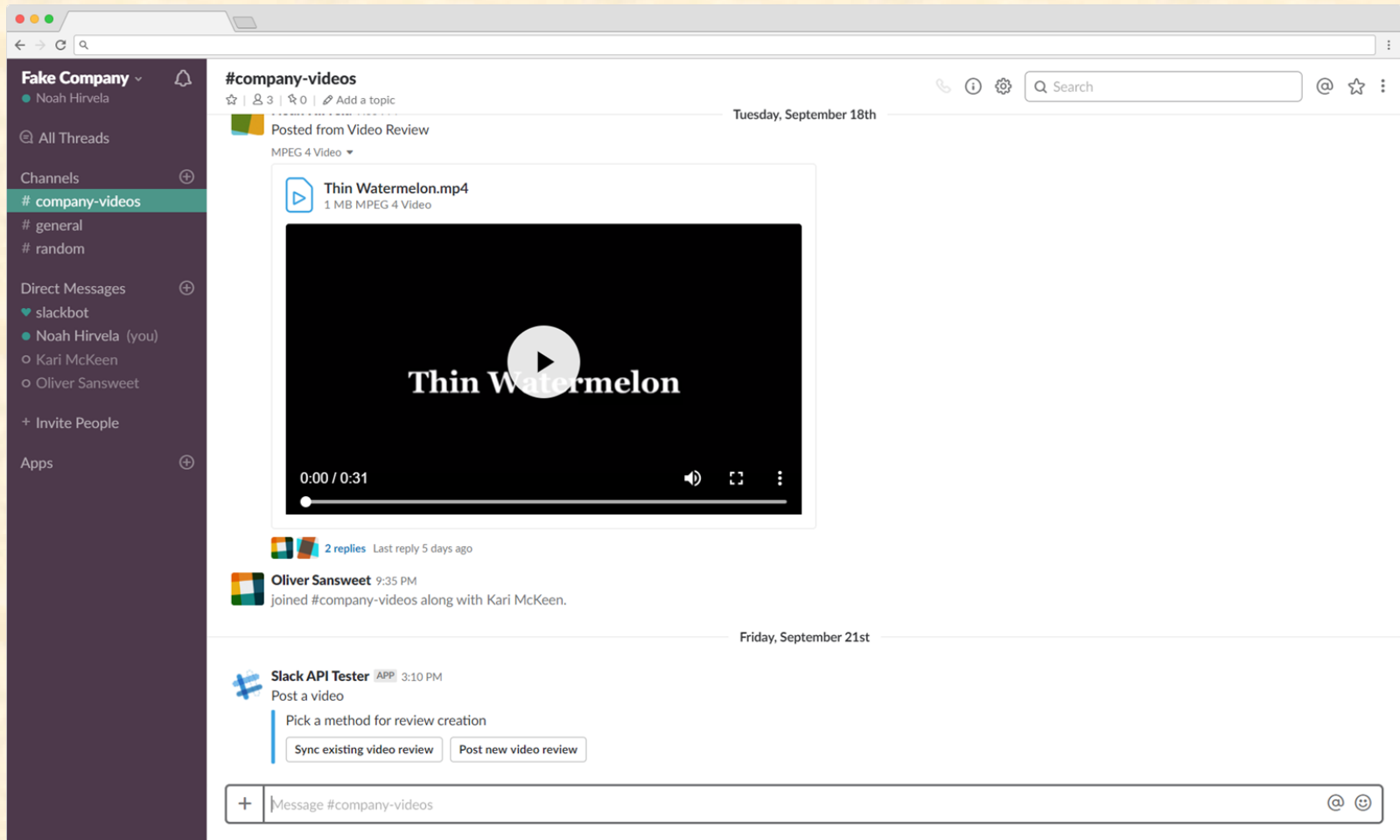
Screen Mockup: Mobile App



Screen Mockup: Slash Command



Screen Mockup: Review Prompt

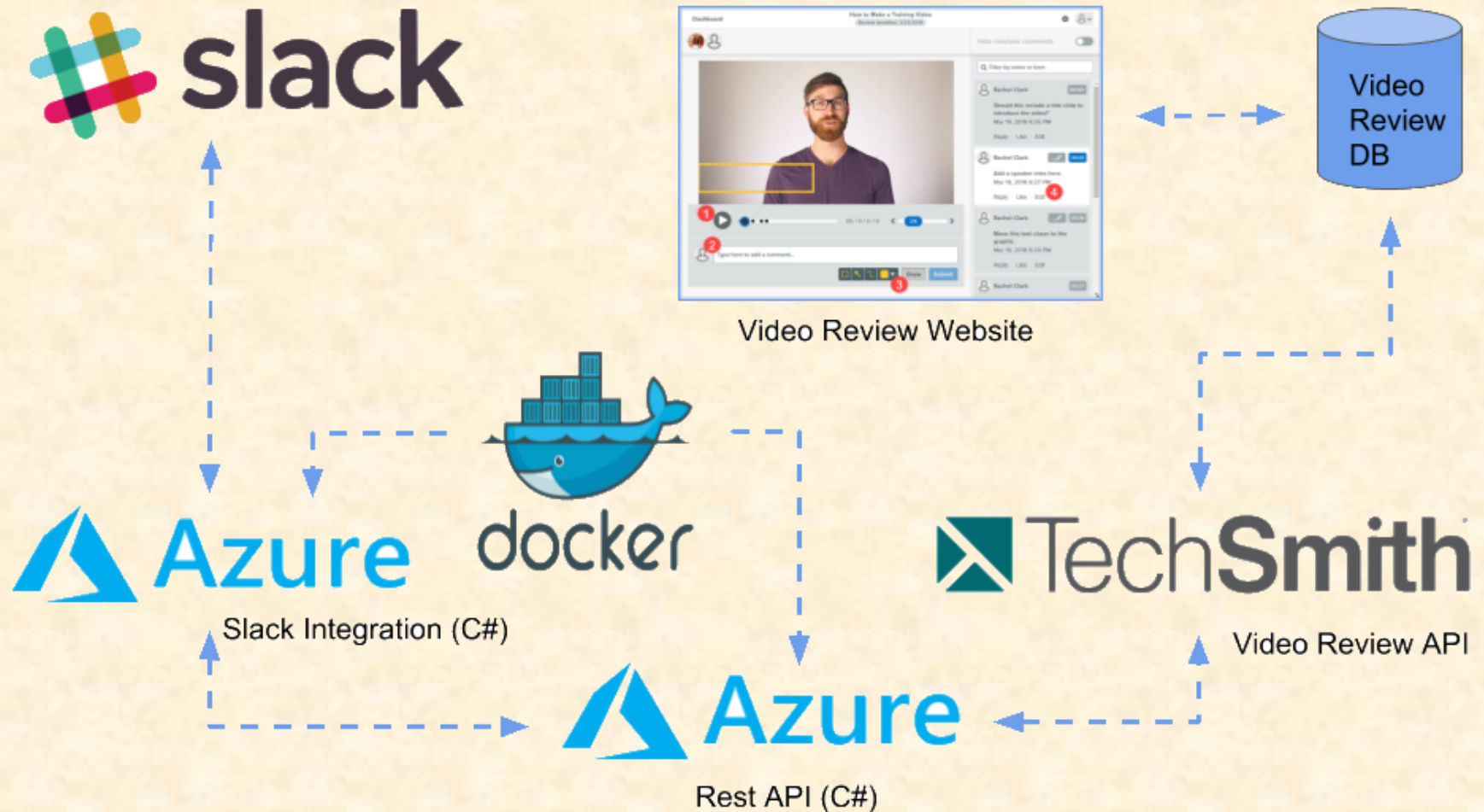


Technical Specifications

- 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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