

IOWA STATE UNIVERSITY

EE/CPRE/SE 492 Spring 2021, Team sdmay21-02

Application for Sharing Interesting Zoo & Aquarium Videos to Social Media

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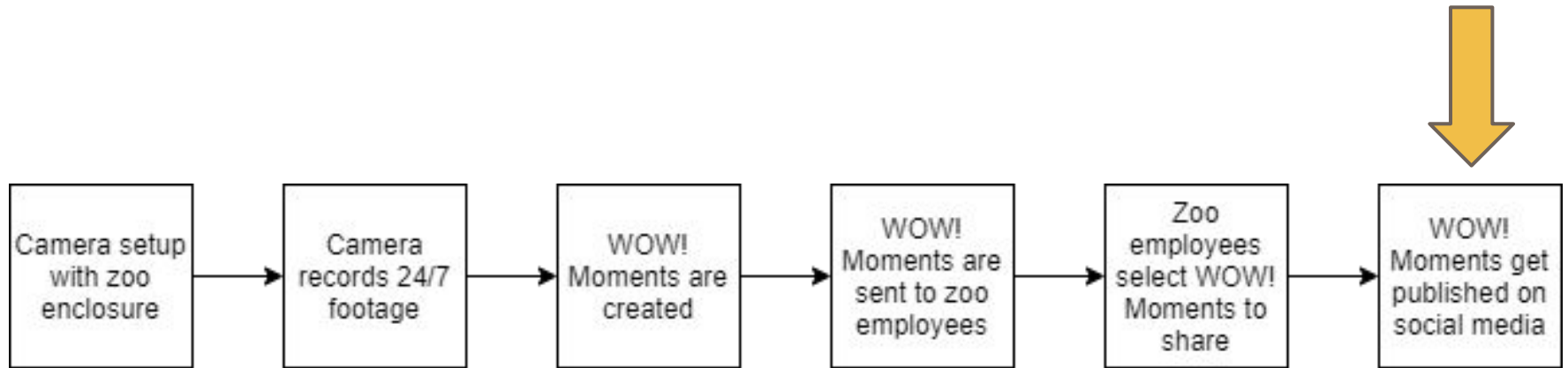
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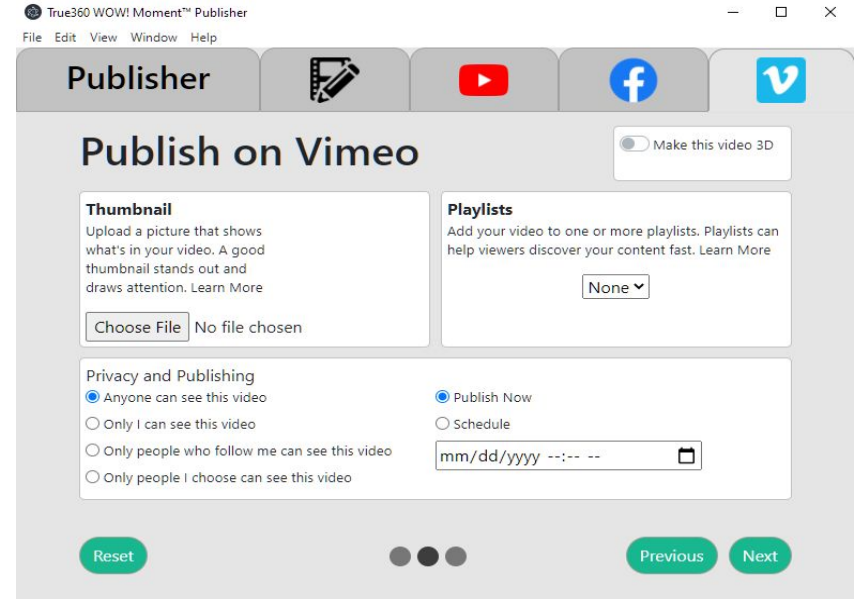
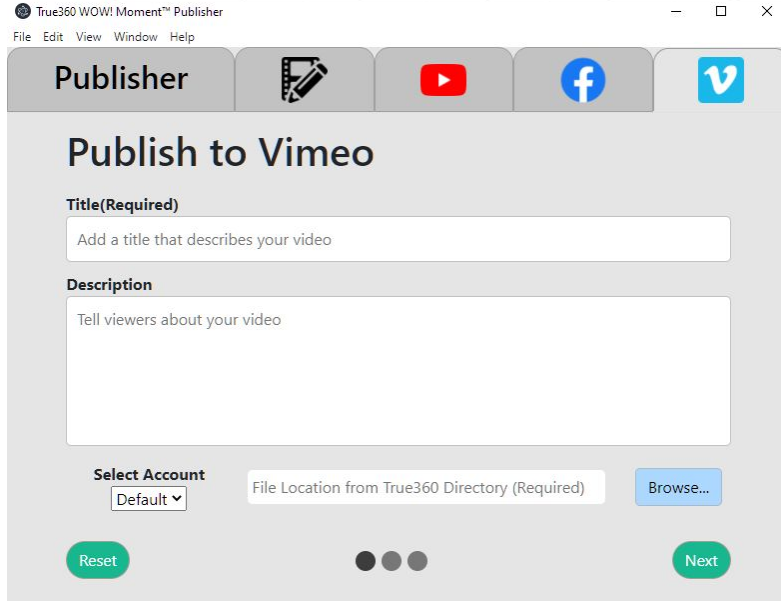
Recap

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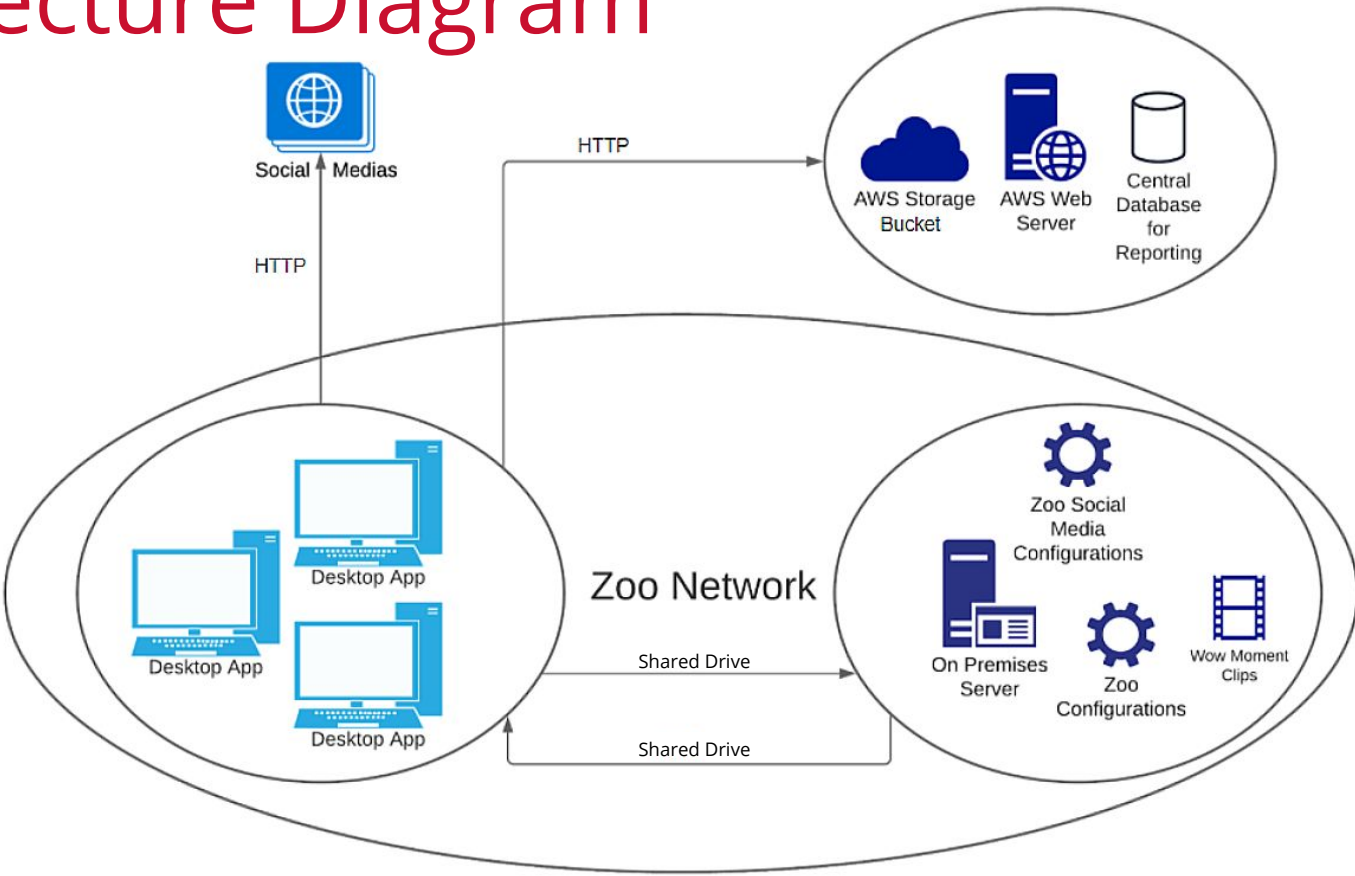
- True360 WOW! Moment Publisher
- 360 Video Uploads to Social Media Platforms



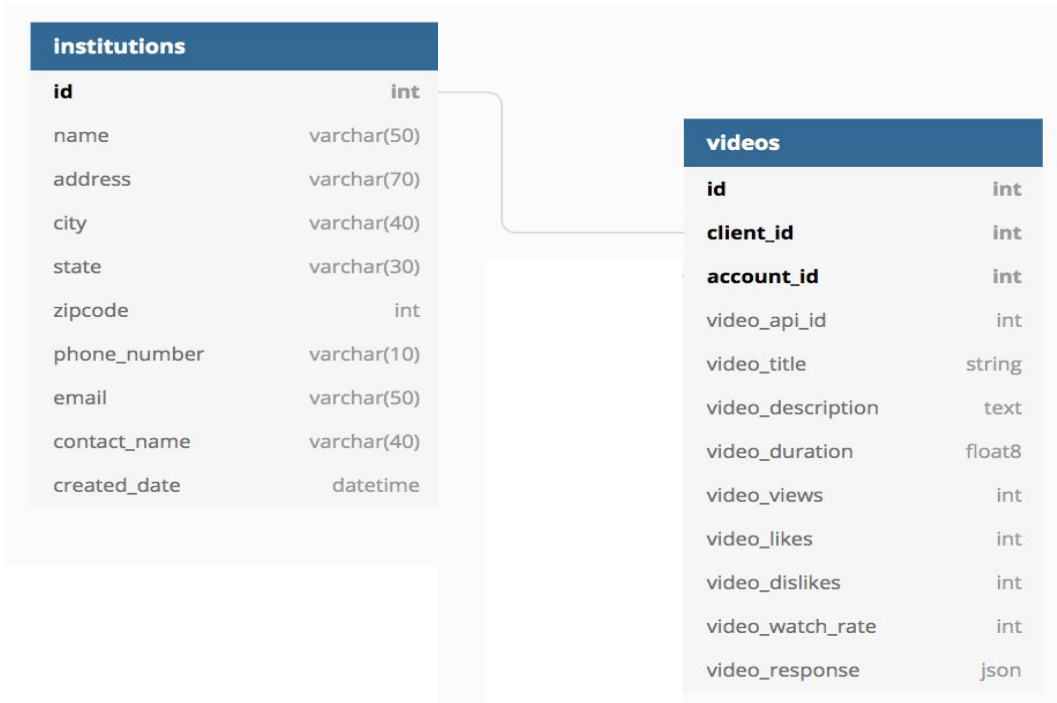
Desktop Application



Architecture Diagram



Database Diagram



Engineering Requirements

Functional Requirements

- Create a cross-platform application that allows for publishing of videos to selected platforms
- Create a centralized web server and database that contains publication data
- The app must contain the following features:
 - Bug Report / Contact Forms
 - User Documentation
 - Format videos and metadata based on platform

Non-Functional Requirements

- The product shall appear easy and simple to use
- The product shall perform swiftly for the user
- The product shall be usable by users with limited computer experience
- The product shall comply with legal regulations
- The product shall be built to last

Engineering Constraints

Engineering Constraints

- Must be developed within one semester
- Have to go through Facebook, YouTube, and Vimeo APIs
- Must use JavaScript and Python
- No budget, so no premium API features



Engineering Standards

Engineering Standards

- Test Driven Development will be conducted
- Follow all best practices for security, ensuring that user data is secure and encrypted
- Code should be written in a way that it is easy to maintain and understand
- All code must be reviewed by at least 2 other developers

Technical Challenges

Technical Challenges

- Meeting design specifications
- Learning the Django framework
 - User Authentication
- Learning how to use Electron
- HTML Framework (React)
- Using various APIs
- Overcoming Senioritis (Procrastination)

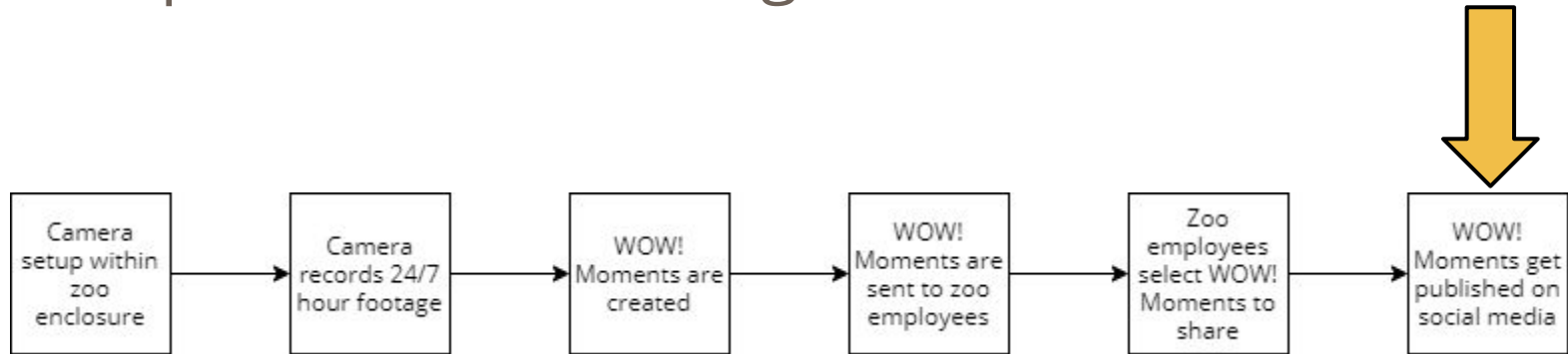
Conclusion

Current Project Status

- Creating endpoints for Front-end to store video information
- Creating Token Authentication for Back-end API endpoints
- Merging Front-end Development with Back-end Development

Current Plans

- Complete the Desktop App
- Complete the Publishing Process



The End