

VIP Senior, 2017, Fall VIP Website 7.0

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Problem

- Projects do not show enough information to students.
- No sense of “history” with previous projects.
- Projects lacking visual appeal.

Solution

- Show more project information to students at-a-glance.
- Use videos and media in more areas.
- Introduce functionality to add documents and attachments to projects.
- Cleaner, more appealing projects.

Current System

- Very plain-looking projects.
- Restricted to single video.
- Cannot showcase previous deliverables or documents.
- Too many clicks to view details.

User Interface

Figure 1: New Project Card

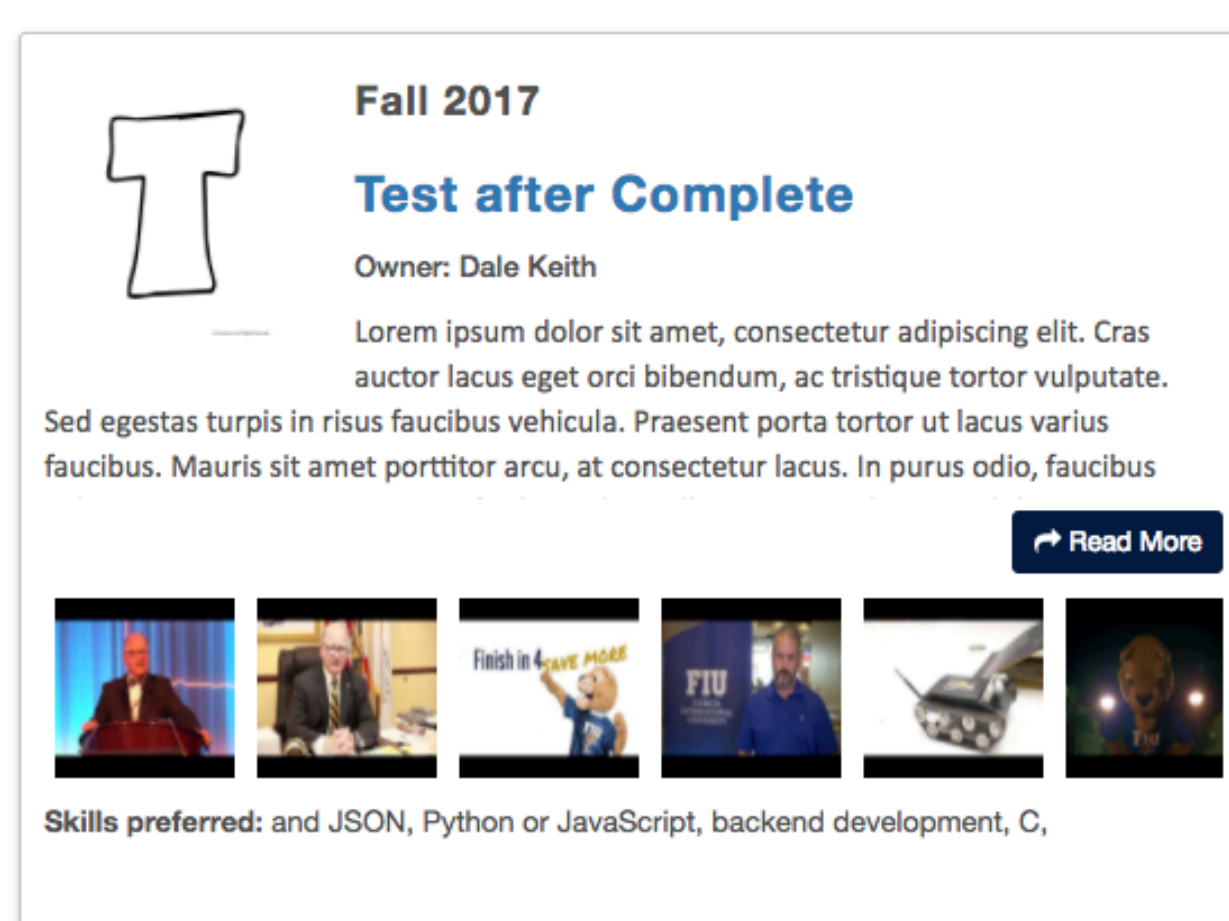


Figure 2: New Project Details Page

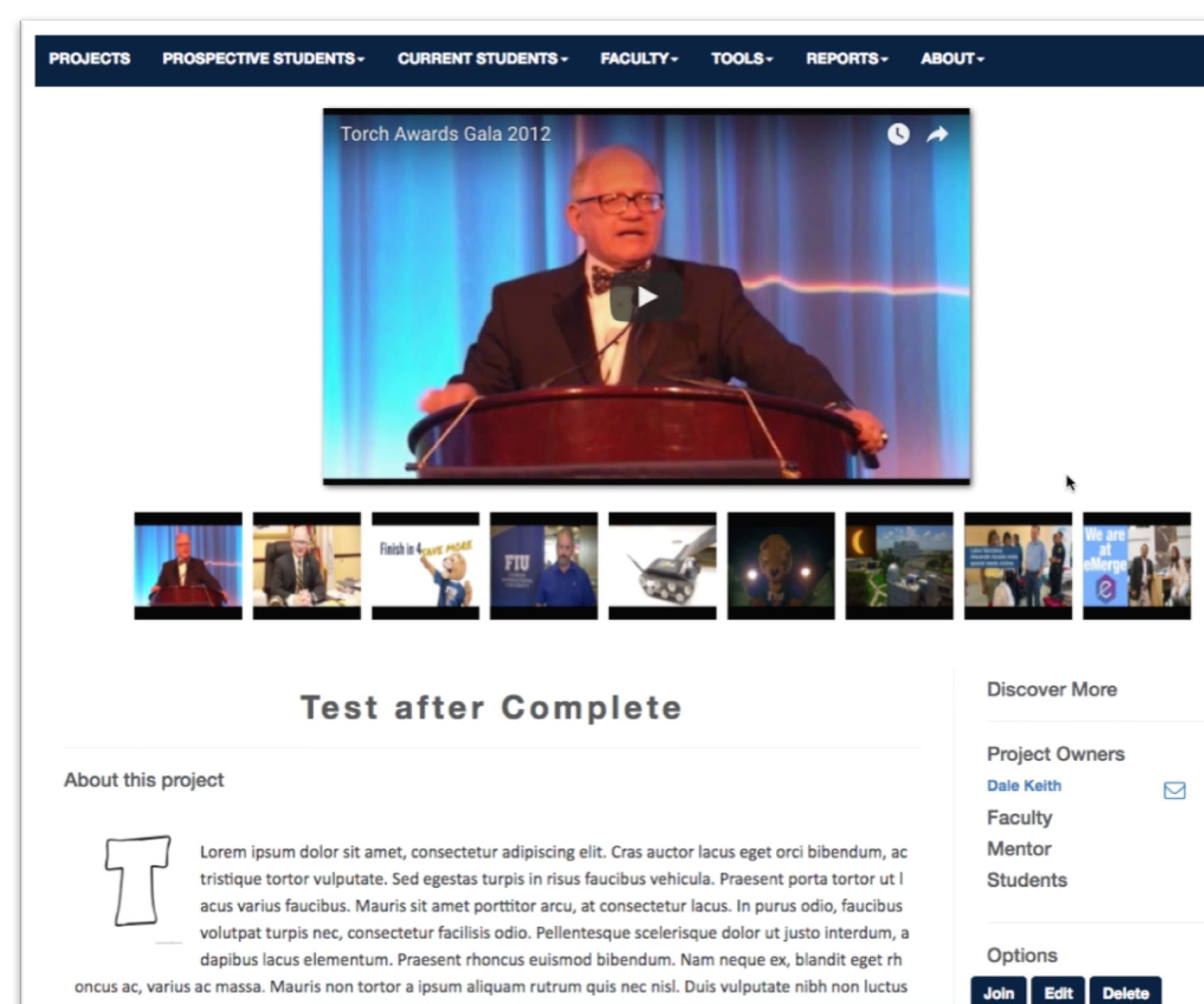


Figure 3: Attachments and Deliverables

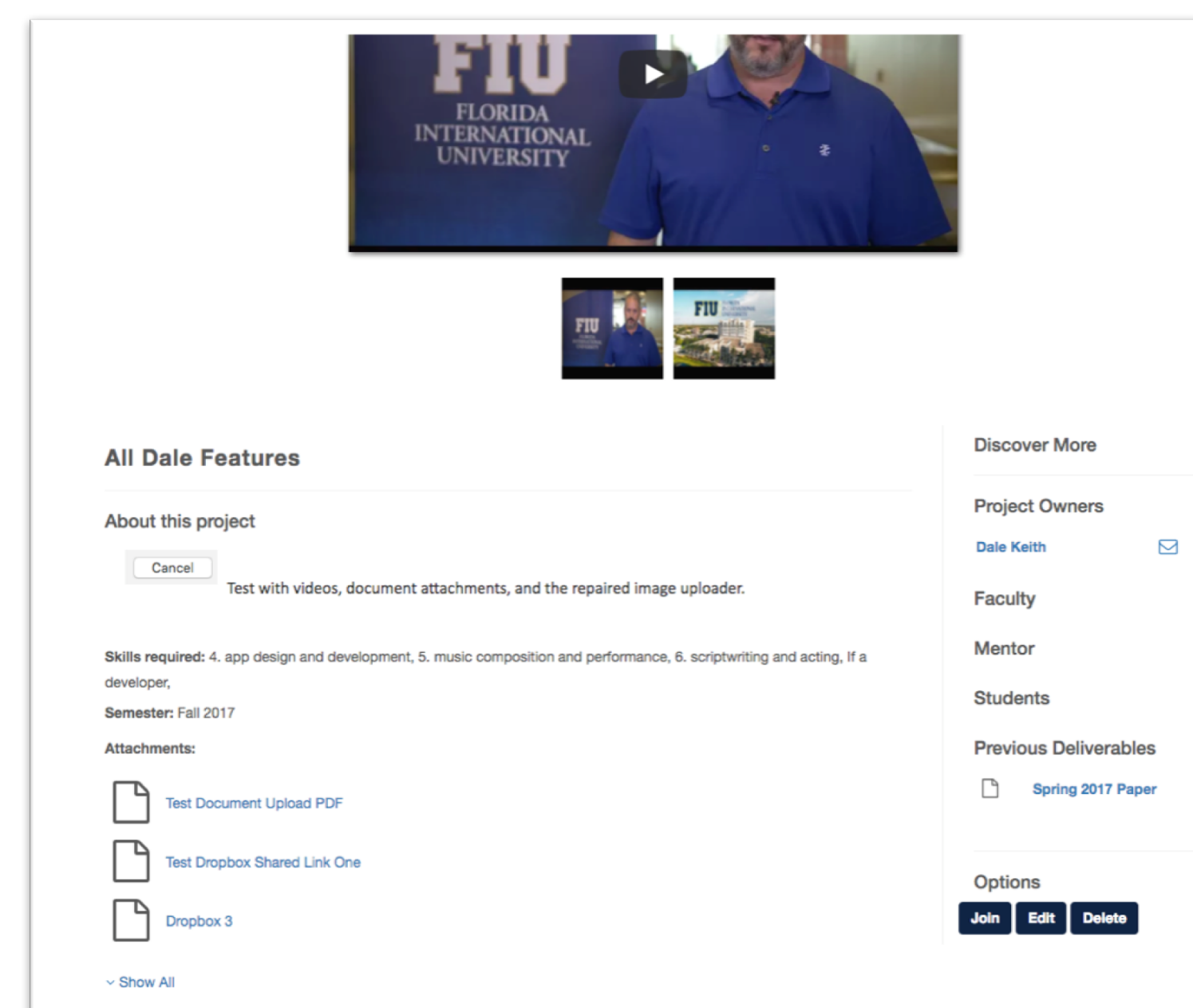
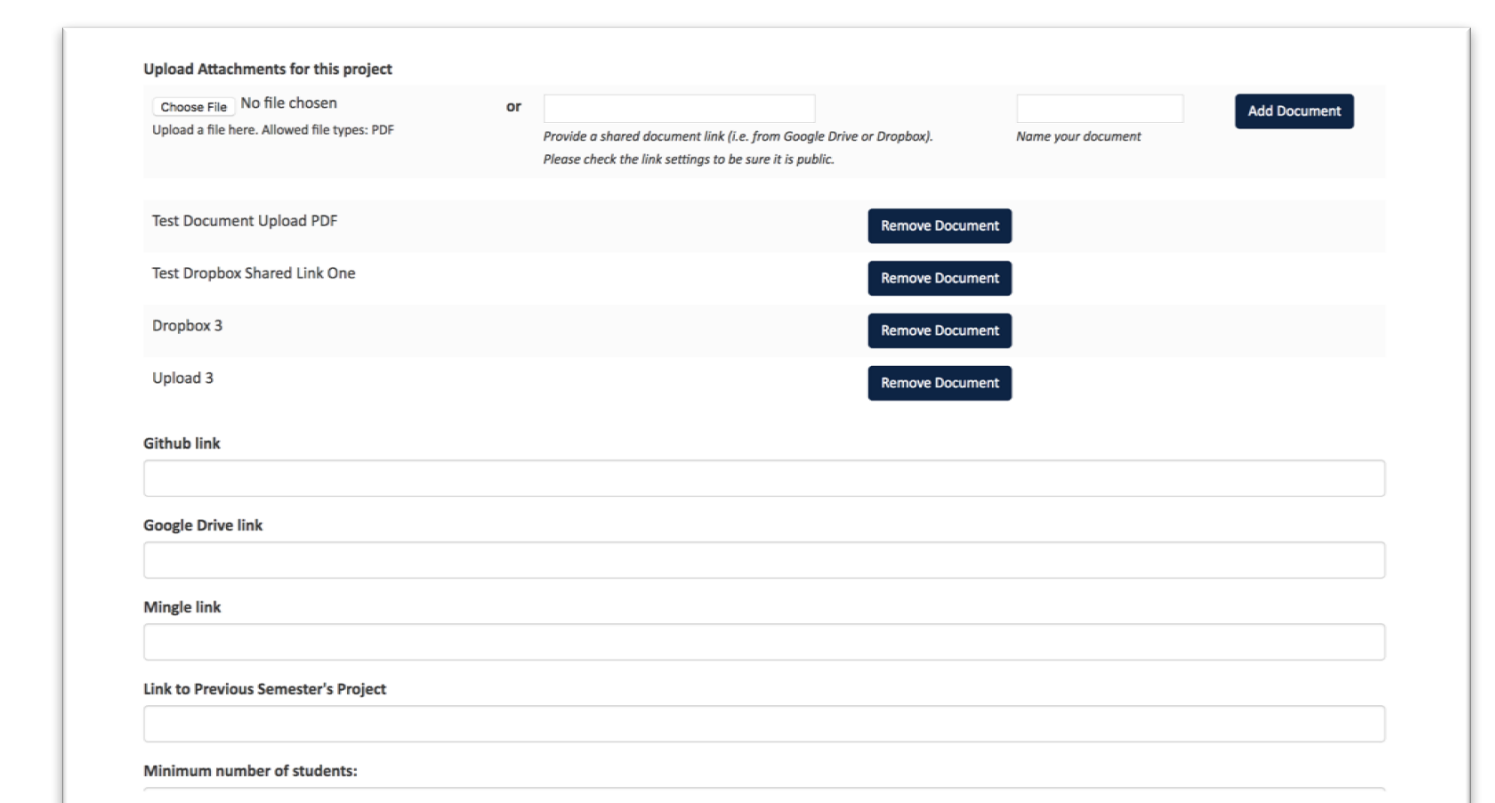


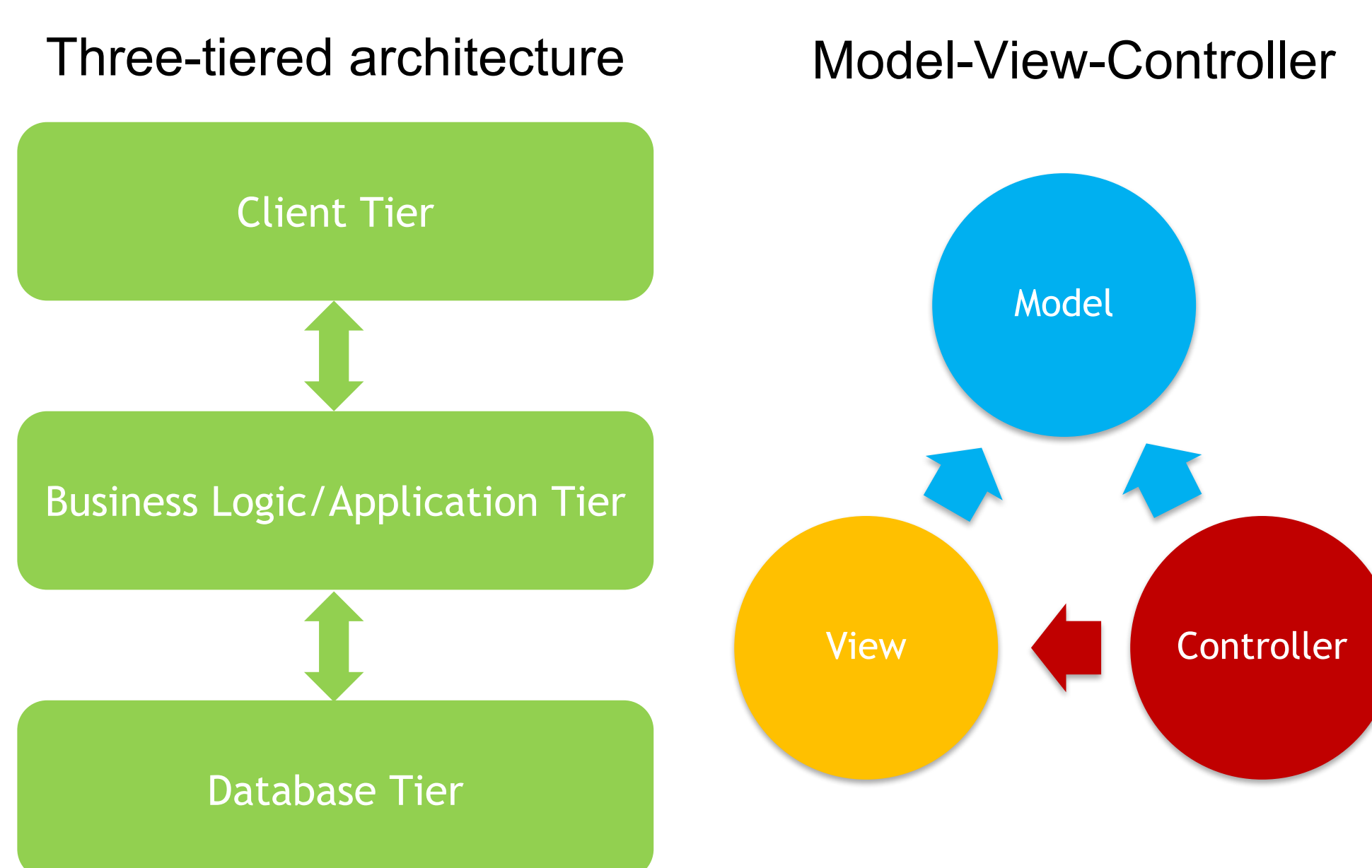
Figure 4: Easy Admin Interface



Requirements

- Notify members if a project is deactivated.
- Add an unlimited number of YouTube videos to a project.
- Add General Attachments to Projects.
- Redesign Project Cards to show more information.
- Add Deliverable Uploads to Project Details.

System Design



Implementation



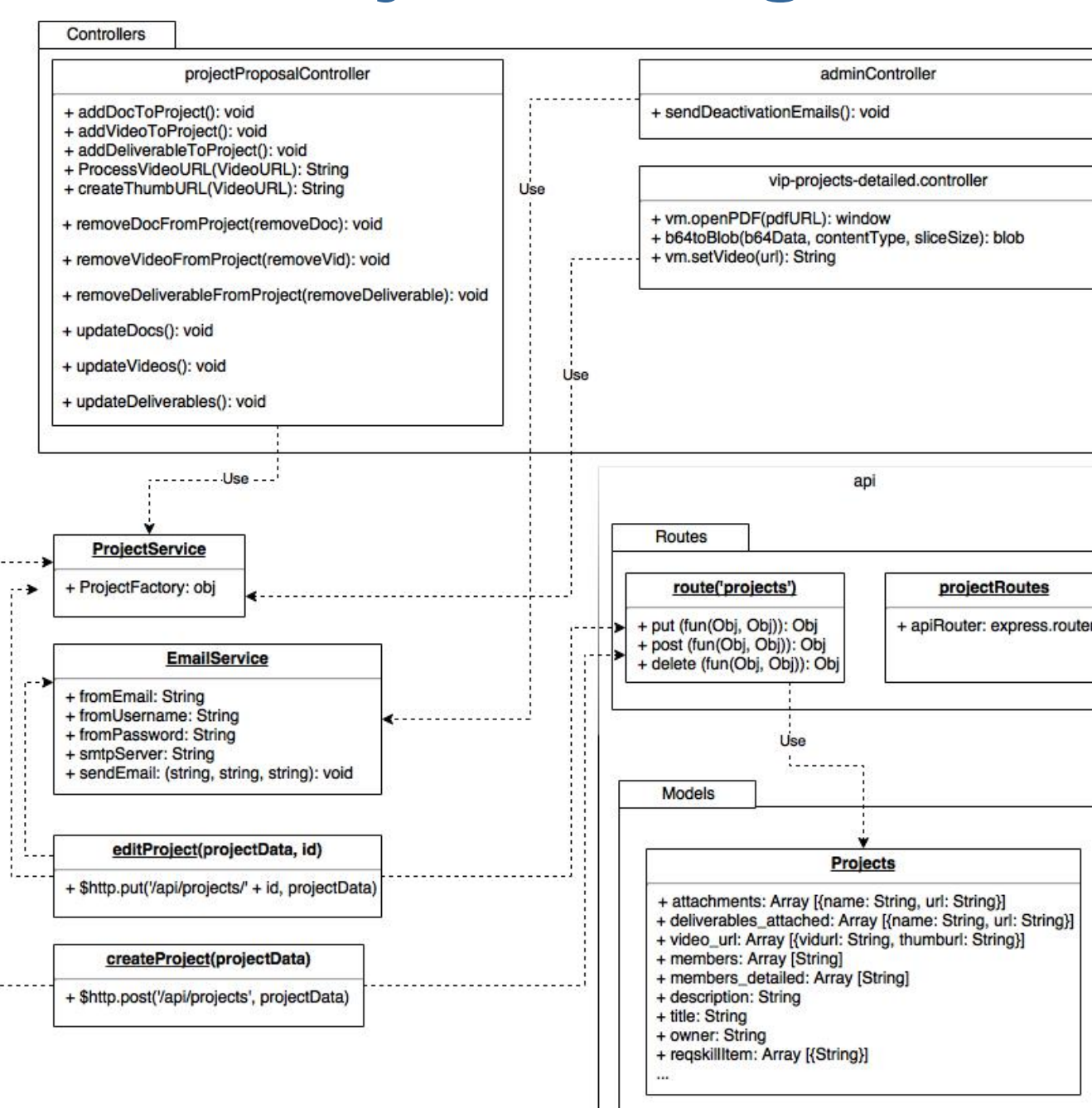
- MongoDB – NoSQL Database
- Express – App Framework
- AngularJS – Front-end framework
- NodeJS – JavaScript Runtime

B Bootstrap framework for user interface elements.

Verification

- Local testing done manually using unit tests.
- Tested with other areas/features with manual local integration tests.
- Final testing done using static development server.

Object Design



Summary

- Problem: Projects needed more appealing information.
- Added additional media.
- Cleaner project cards.
- Easier for students to choose project at-a-glance.
- Minimal API changes.
- Fully implemented with JavaScript.

Acknowledgement

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