



Senior Project, 2017, Fall VIP Website 7.0

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Problem

- No ability to view and search for Projects and Courses
- No accessible interface available for modifying the VIP Databases
- No means to automatically update VIP Databases using external data

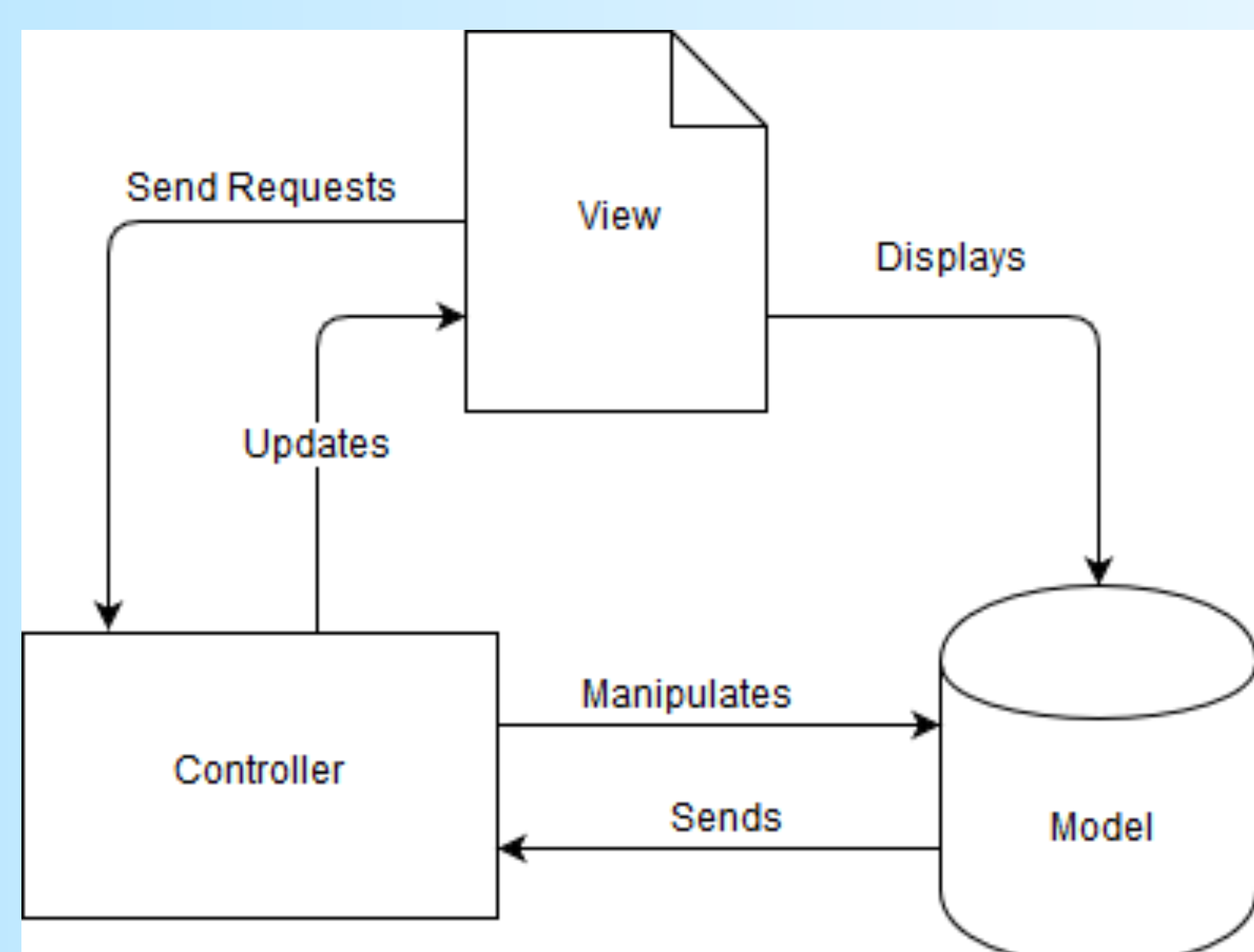
Solution

Administrator Panel Allows PI to:

- Add/Remove and Modify Users, Projects, and Courses
- Filtering Feature for easy access
- Synchronize Users Database using Panthersoft Data

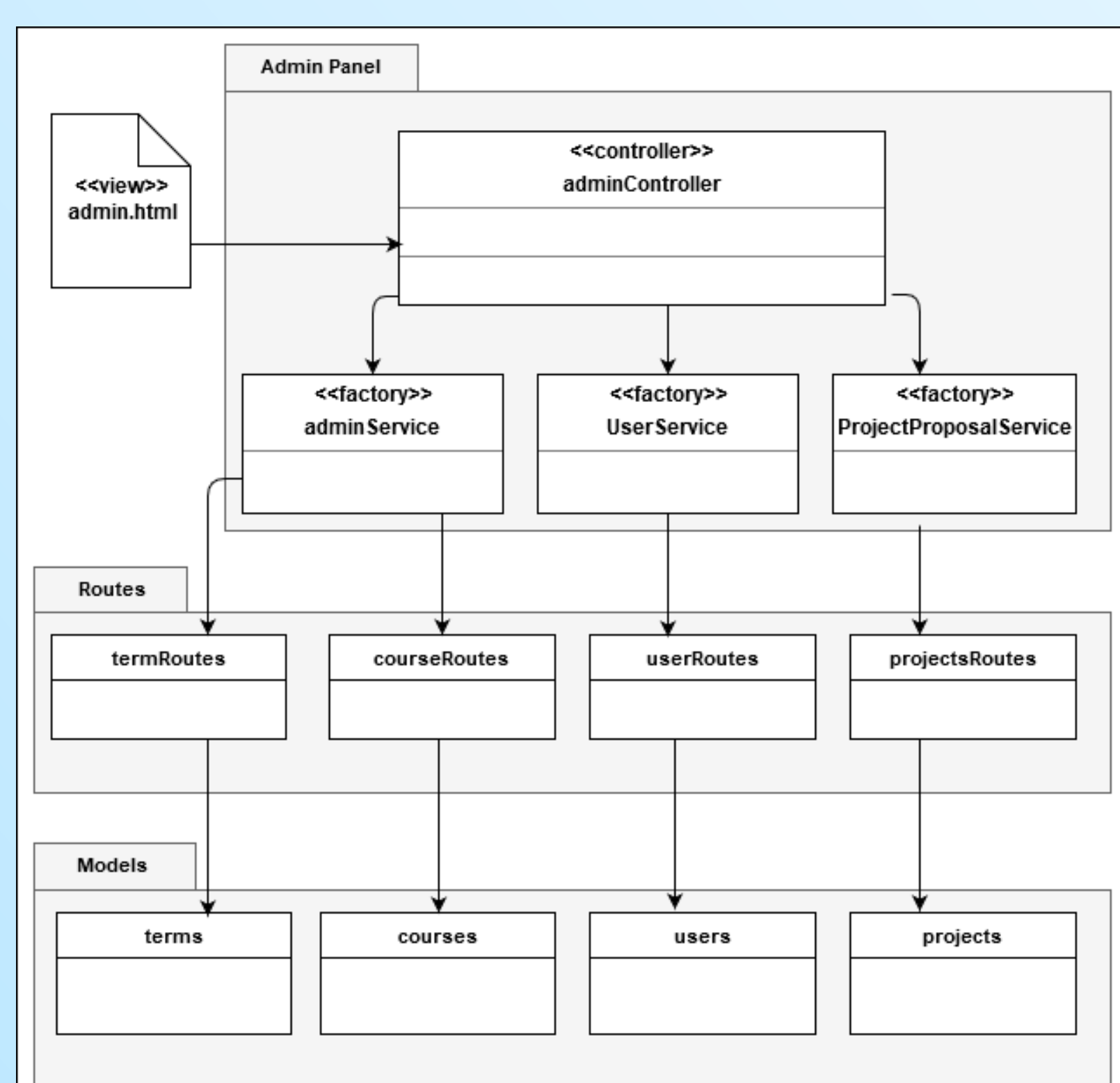
System Design

The system employs the Model-View-Controller architecture, as shown below:



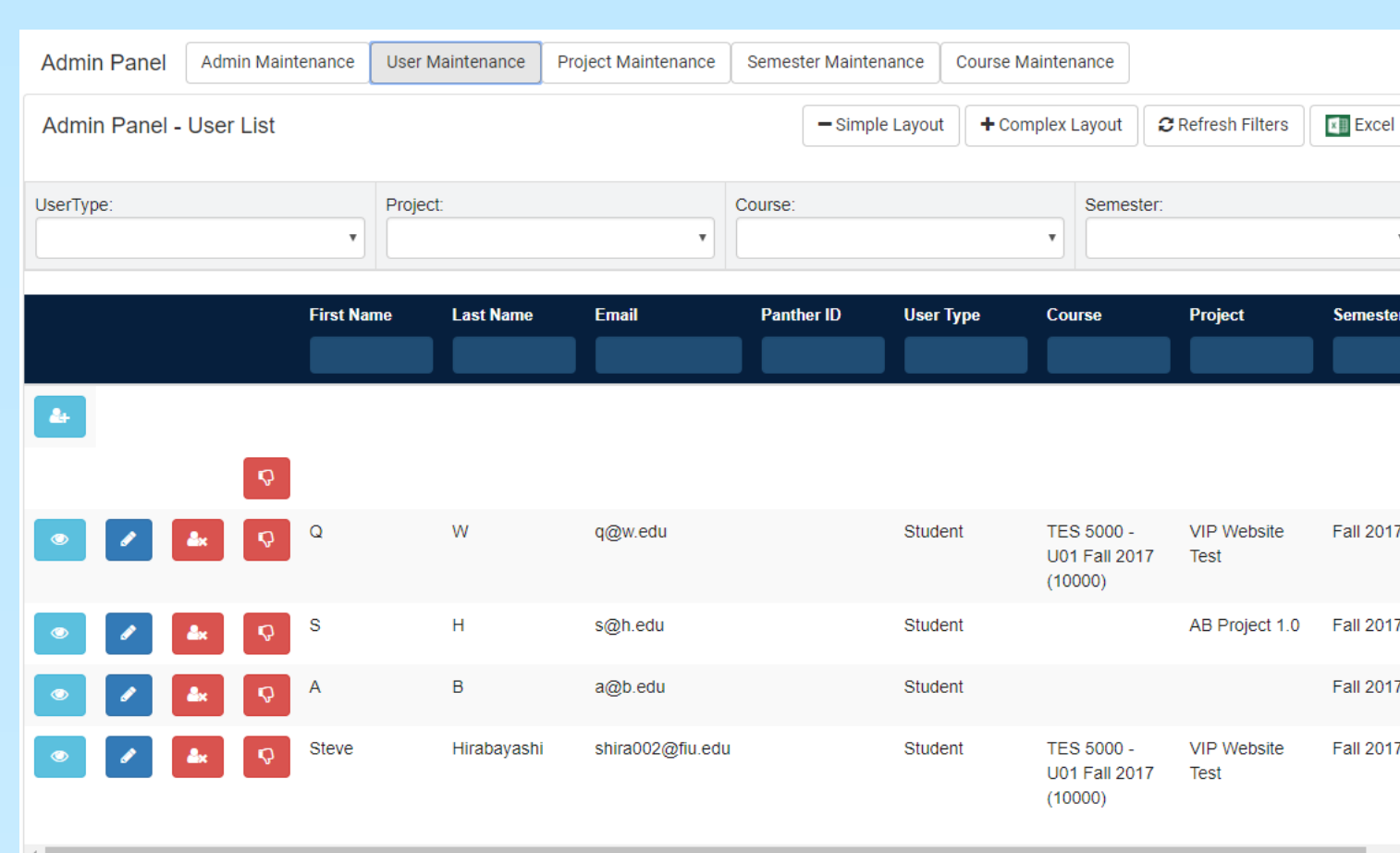
Class Design

Condensed Class Diagram showing the relationships between the Models, Controllers, and View

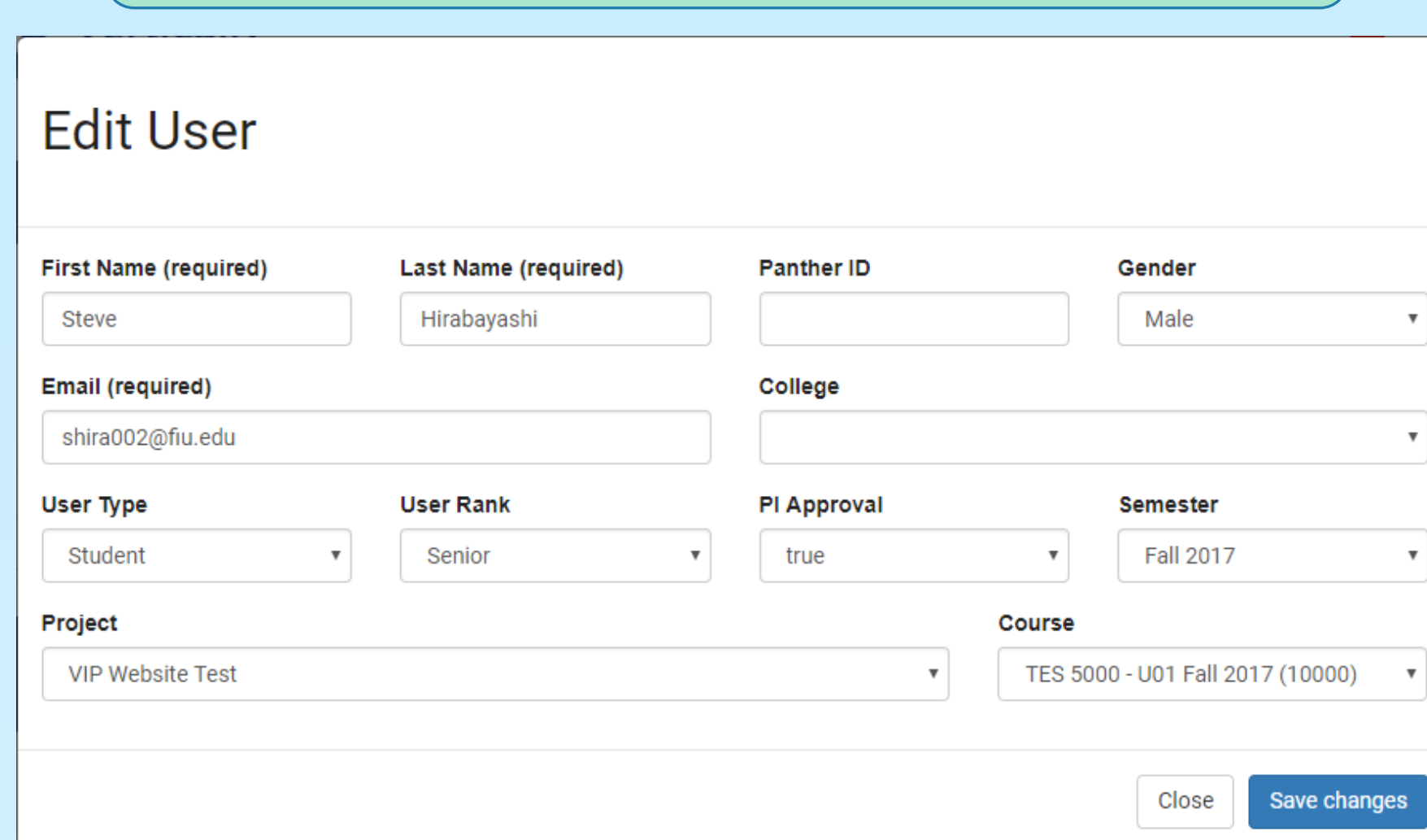


Screenshots

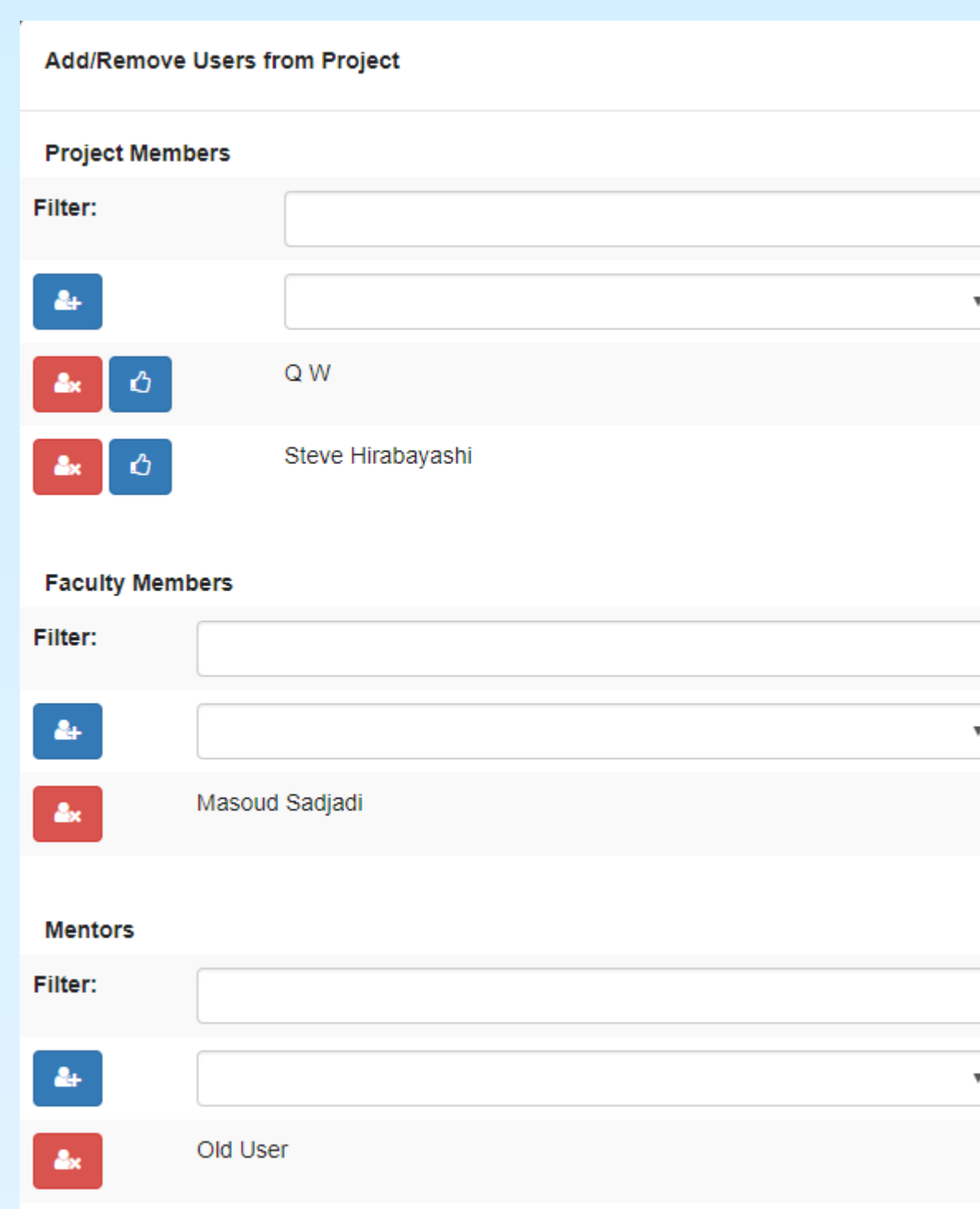
Admin Panel



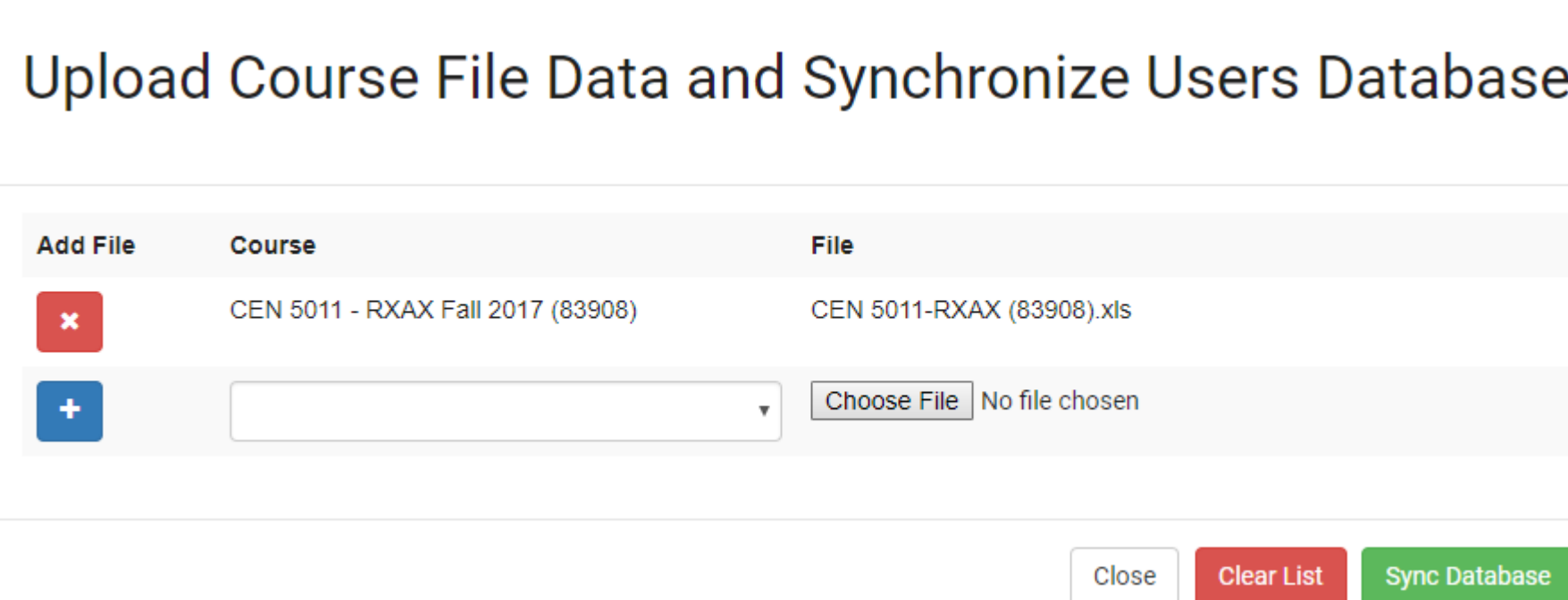
Edit User



Add/Remove Users from Project



Synchronize Users by Course



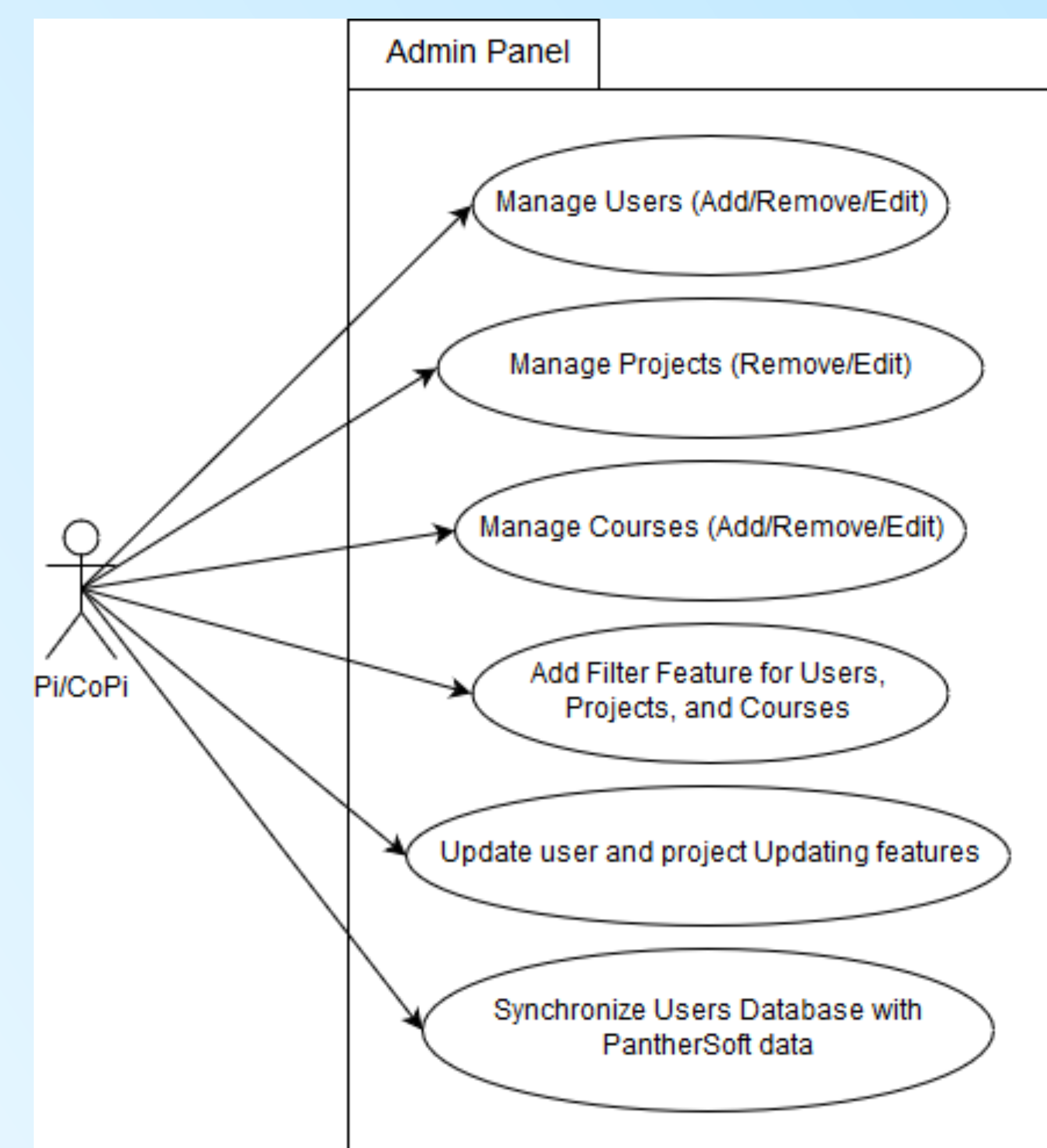
Implementation

The MEAN stack was used for the development of this website



Requirements

The requirements of our system depicted with use cases:



The sole actor, the Principal Investigator (and Co-Pi) has access to the Administrator Panel

Verification

A combination of manual testing and testing done using Selenium was employed

Test Case ID:	VIP-1300-U1
Purpose	Admin adds a new user (Sunny Day Scenario)
Pre-Conditions	User with PI/CoPI privileges has logged into the VIP website User is at the admin panel page - user maintenance tab
Test Data	First Name: testF Last Name: testL Email: test@testing.edu Password: Password#123
Expected Output	User will be added to the database Users panel table will be updated with user at the bottom Tester will be notified of success

Test Case ID:	VIP-1300-U2
Purpose	Admin adds a new user (Rainy Day Scenario)
Pre-Conditions	User with PI/CoPI privileges has logged into the VIP website User is at the admin panel page - user maintenance tab
Test Data	First Name: testF Last Name: testL Email: test Password: pass
Expected Output	User will not be added to database Users panel table will not be updated with user at the bottom Tester will be notified of error

Summary

- Problem: No interface available for fully managing VIP Databases
- Solution: Expand the Administrator Panel to allow PI to view and modify VIP Databases
- Improvements: Modifications to API to ensure database integrity

Acknowledgement

The material presented in this poster is based upon the work supported by Jose Ponce. I am thankful to the help that I received from my group members Dale Keith, Leon Liang, Andres Moser, and Adam Levy. I am also thankful for the guidance offered by professors Masoud Sadjadi and Francisco Ortega.