

V.I.P. Website 7.0

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Problem

- Fragmented system for administration controls
- Bottlenecks in loading time for tables with large amount of data
- Lack of search capabilities

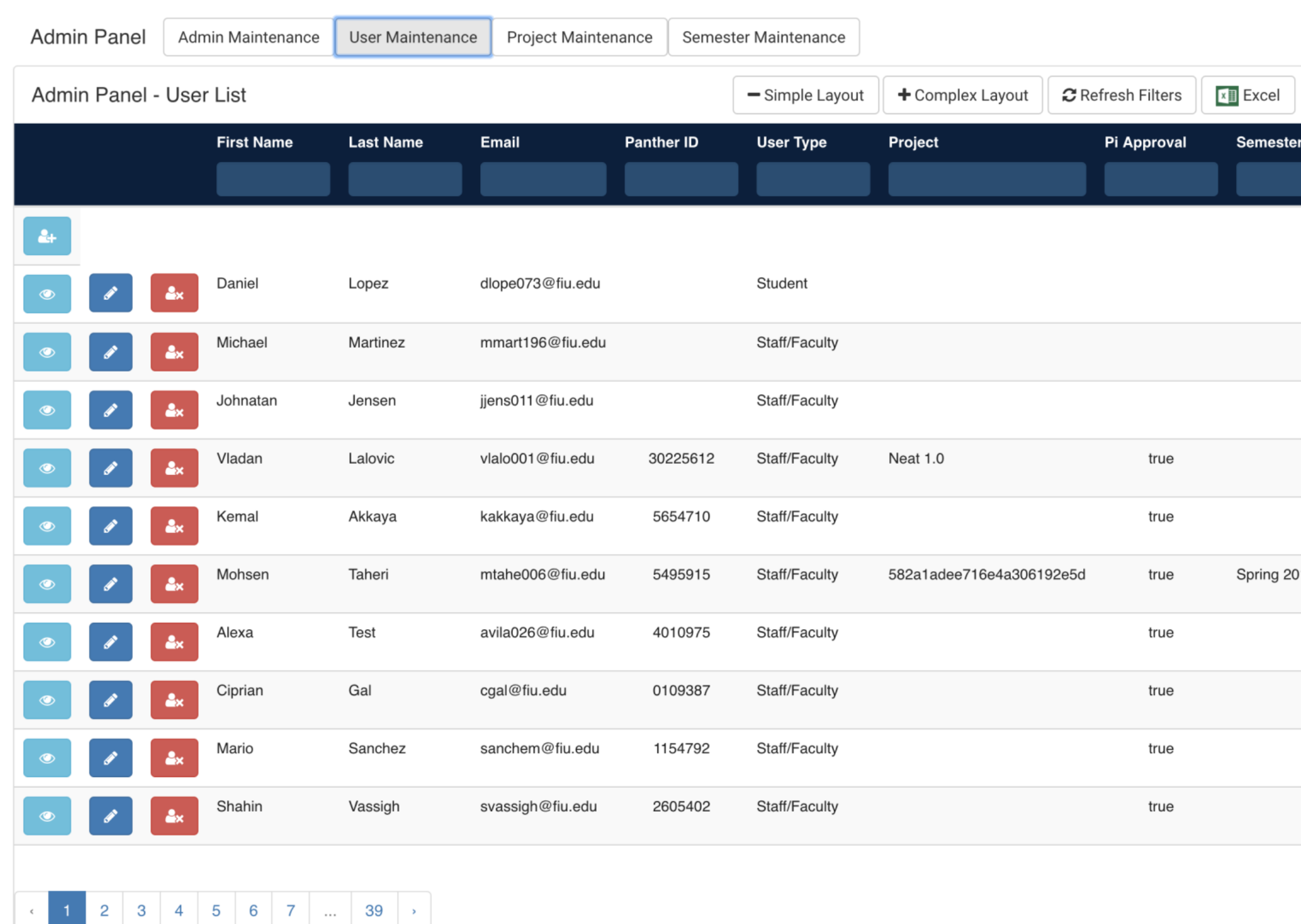
Solution

1. Fragmented system solved by removing duplicated components, centralizing most capabilities to the administrative panel
2. Data filtering on database calls to reduce load time
3. Search bar capabilities for all pages

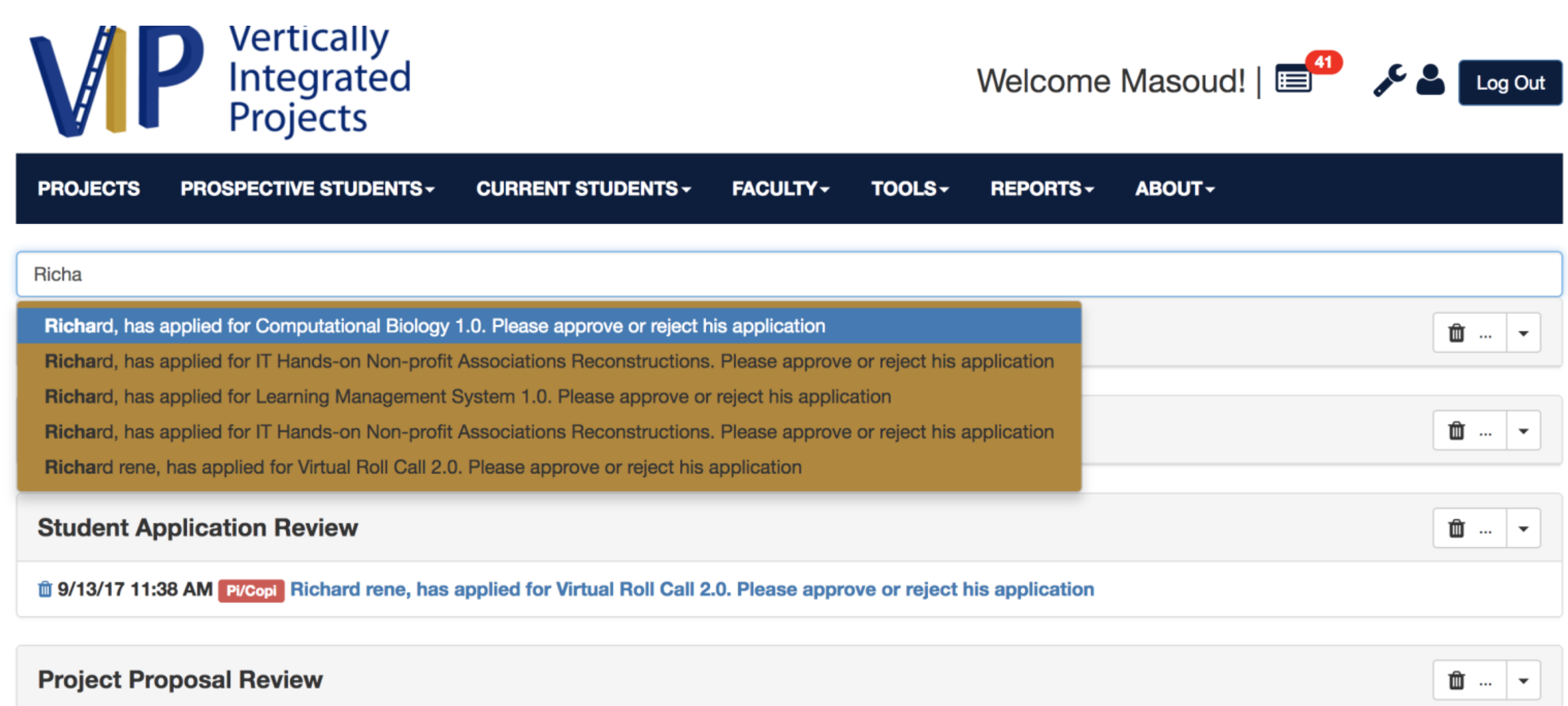
Current System

- All admin capabilities were split between review pages and admin panel
- Loading the data would load entire database table
- No search capabilities for inbox messages

Screenshots



First Name	Last Name	Email	Panther ID	User Type	Project	PI Approval	Semester
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Welcome Masoud! | 41 | Log Out

PROJECTS PROSPECTIVE STUDENTS - CURRENT STUDENTS - FACULTY - TOOLS - REPORTS - ABOUT -

Richa

- Richard, has applied for Computational Biology 1.0. Please approve or reject his application
- Richard, has applied for IT Hands-on Non-profit Associations Reconstructions. Please approve or reject his application
- Richard, has applied for Learning Management System 1.0. Please approve or reject his application
- Richard, has applied for IT Hands-on Non-profit Associations Reconstructions. Please approve or reject his application
- Richard rene, has applied for Virtual Roll Call 2.0. Please approve or reject his application

Student Application Review

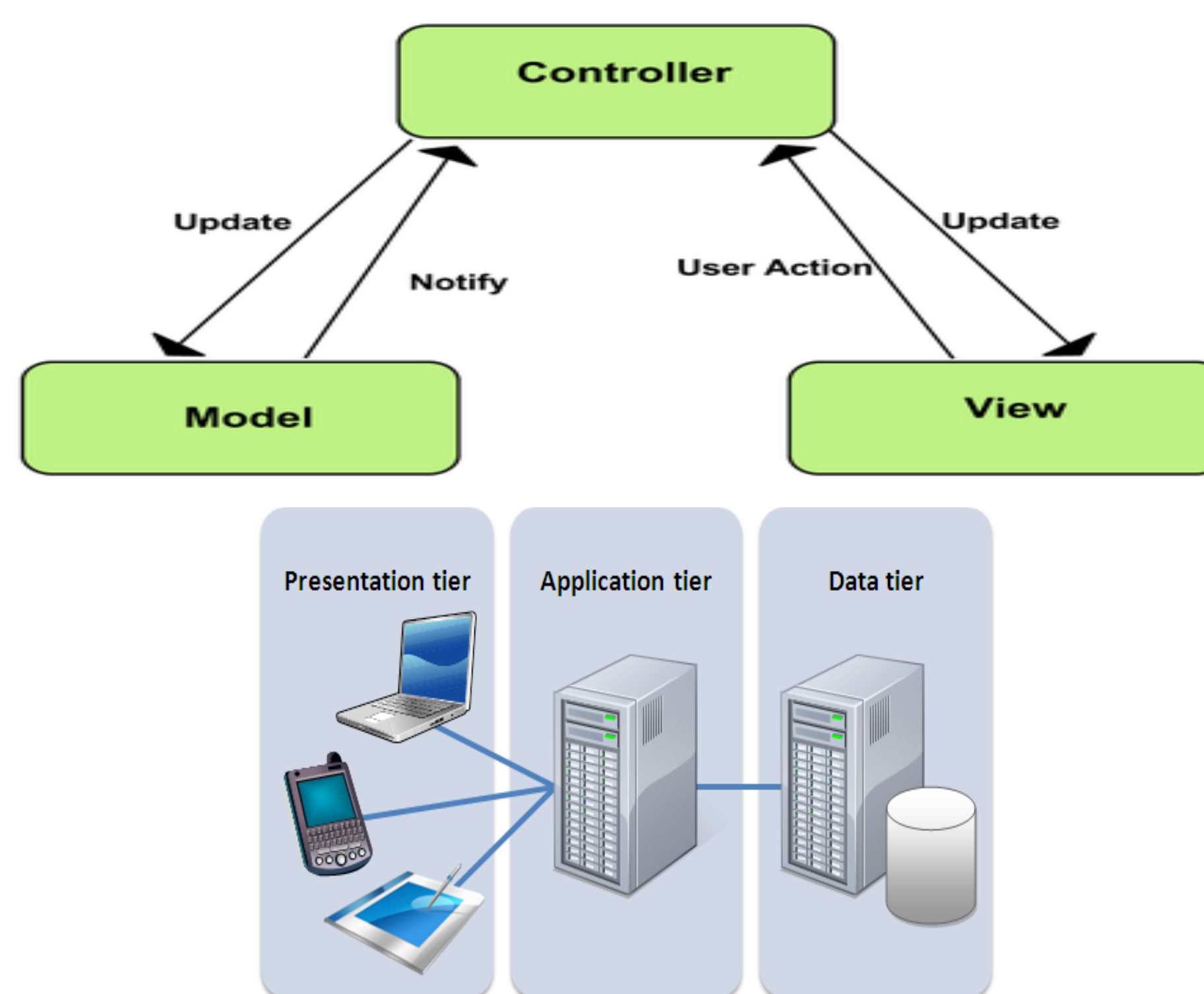
9/13/17 11:38 AM RVCap Richard rene, has applied for Virtual Roll Call 2.0. Please approve or reject his application

Project Proposal Review

Requirements

- Administrative components are clearly defined and compartmentalized
- Tables should contain pagination to reduce heavy data loads
- Inbox messages are now searchable through keywords

System Design



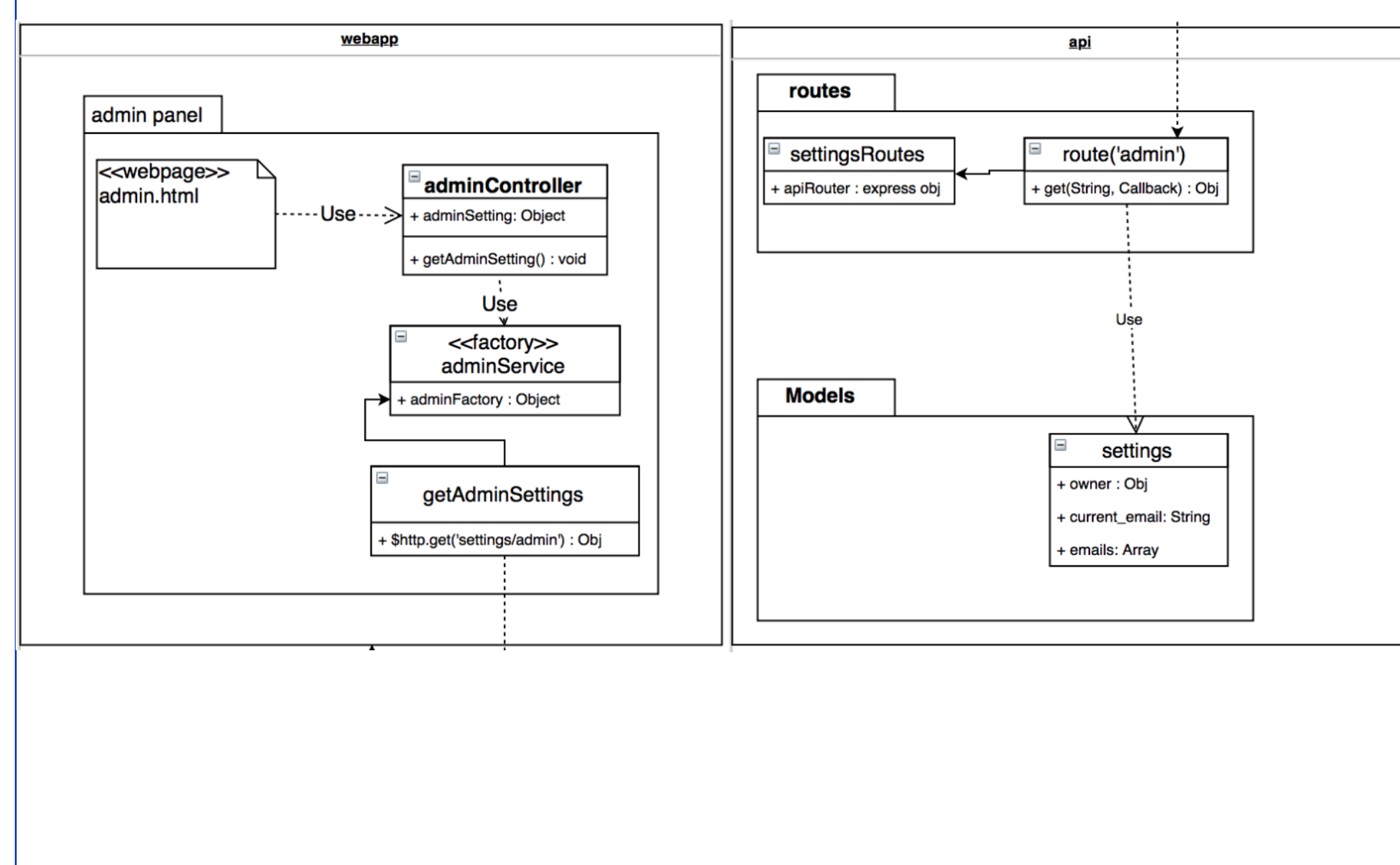
Implementation

- The whole application is built on basic MEAN stack, MongoDB, ExpressJS, AngularJS, NodeJS
- Service layer is done through RESTful api service
- Pagination was done through front-end enhancements as well as back-end query optimizations

Verification

- **Test ID:** VIP - 1322 - U1
- **Description:**
Enter user maintenance tab, navigate between pages using pagination tool on bottom of table.
- **Expected Result:**
No more than 10 result per page
- **Status:** Passed

Object Design



Summary

- Improvement to user experience through front-end modifications
- Enhanced load time due to new pagination components
- Optimized query operations for decreasing bottle neck delays

Acknowledgement

The material presented in this poster is based upon the work supported by Professor Ortega and Professor Sadjadi. I am thankful to the help that I received from my group members, Andres Moser, Steve Hirabayashi, Dale Keith, and Adam Levy.