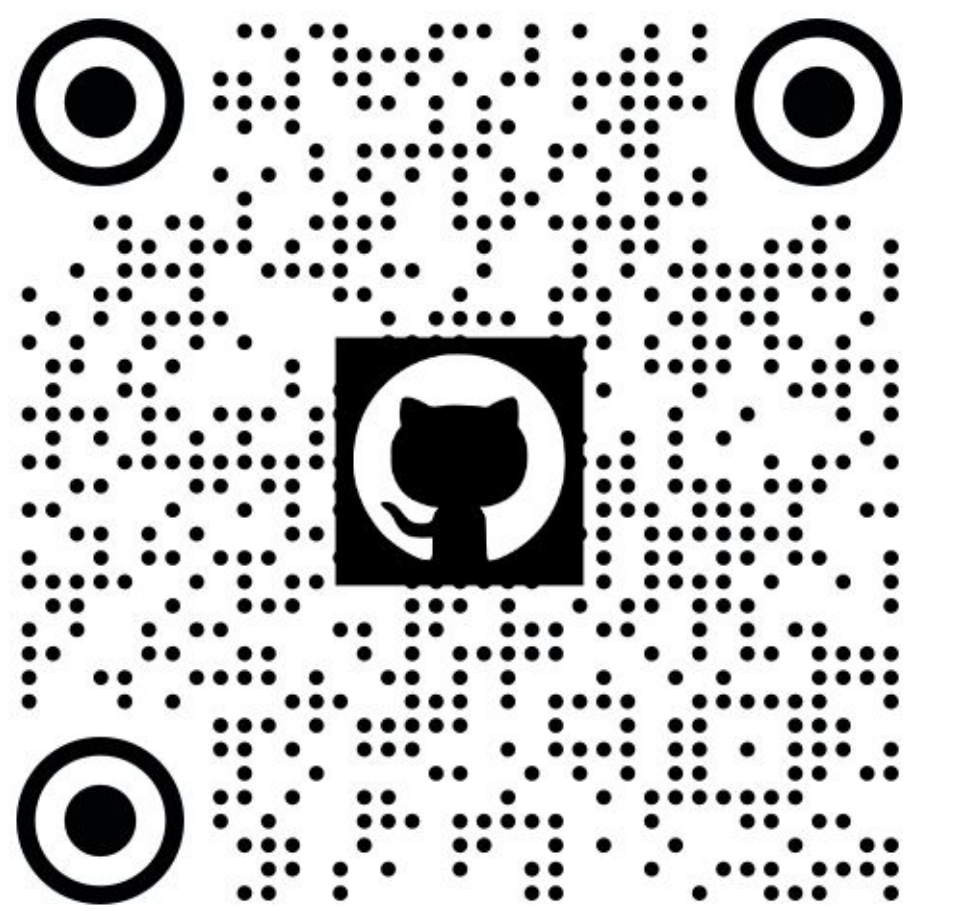# RPI EVENT HUB

Mei Huang, Jordyn Young, Henry Theall, William Fernando, Nithin Vadakken, Felix Tian, Hari Kim

INTRODUCTION AND OUR MISSION

RPI Event Hub is a comprehensive platform for RPI students and staff to effortlessly create, advertise, and explore diverse campus events, fostering a vibrant and connected university community. Our mission was to create an easy to use UI for creating event posts. Store all events in a Database. Clean UI for displaying events. Log in system with verification..

TECH STACK

Version Control (Github)
Node, Express, React
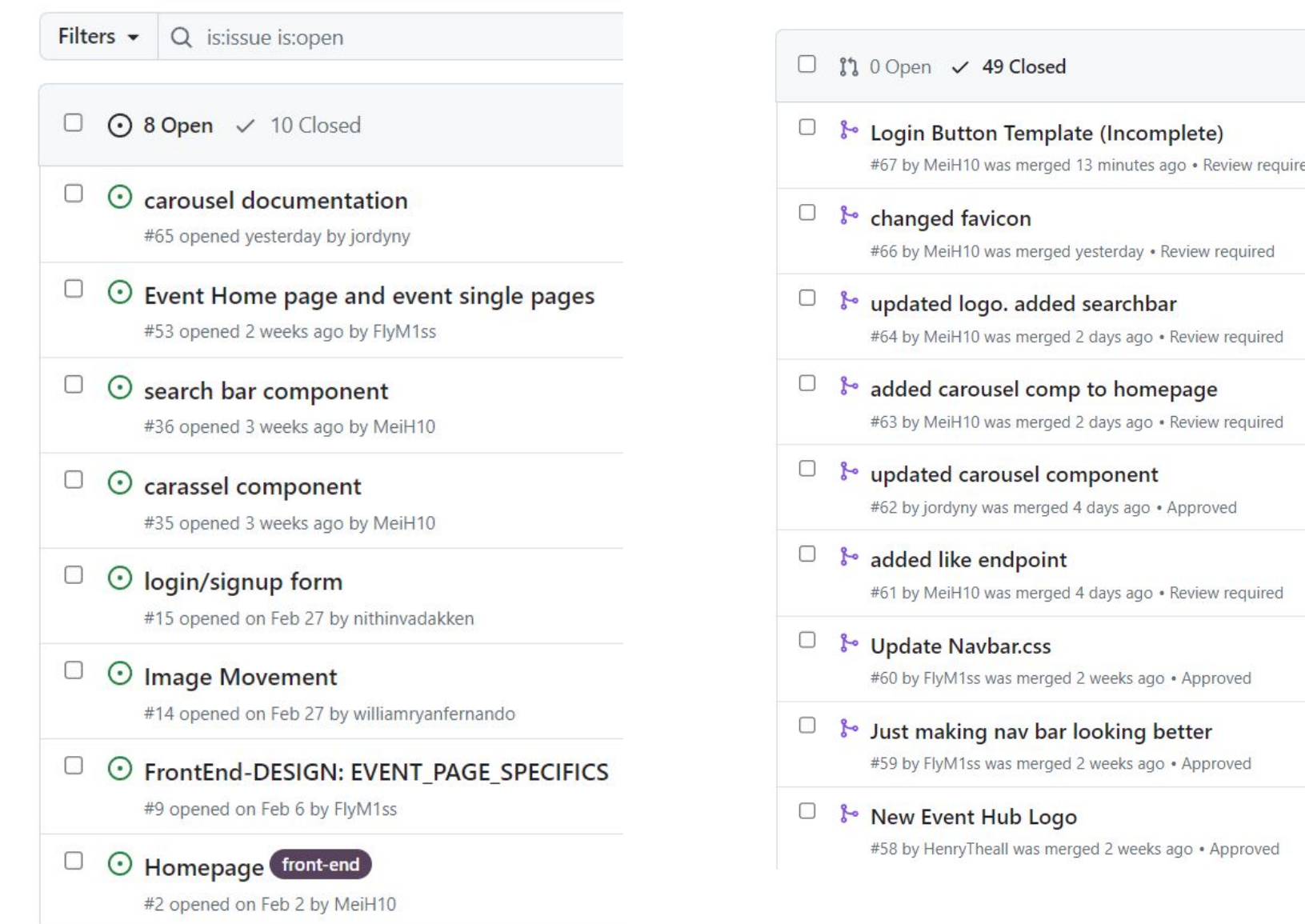HTML5 / Javascript
Figma / Octopus.do
Mongodb

RESULTS

- An elegant, user friendly UI for users to share event posts with peers, browse through existing posts, and search for specific events on campus
- A streamlined working database to store past uploaded events for easy access
- A secure login system for users to create event posts. Logging in is required to make an event post, but anyone can view posted/past events.
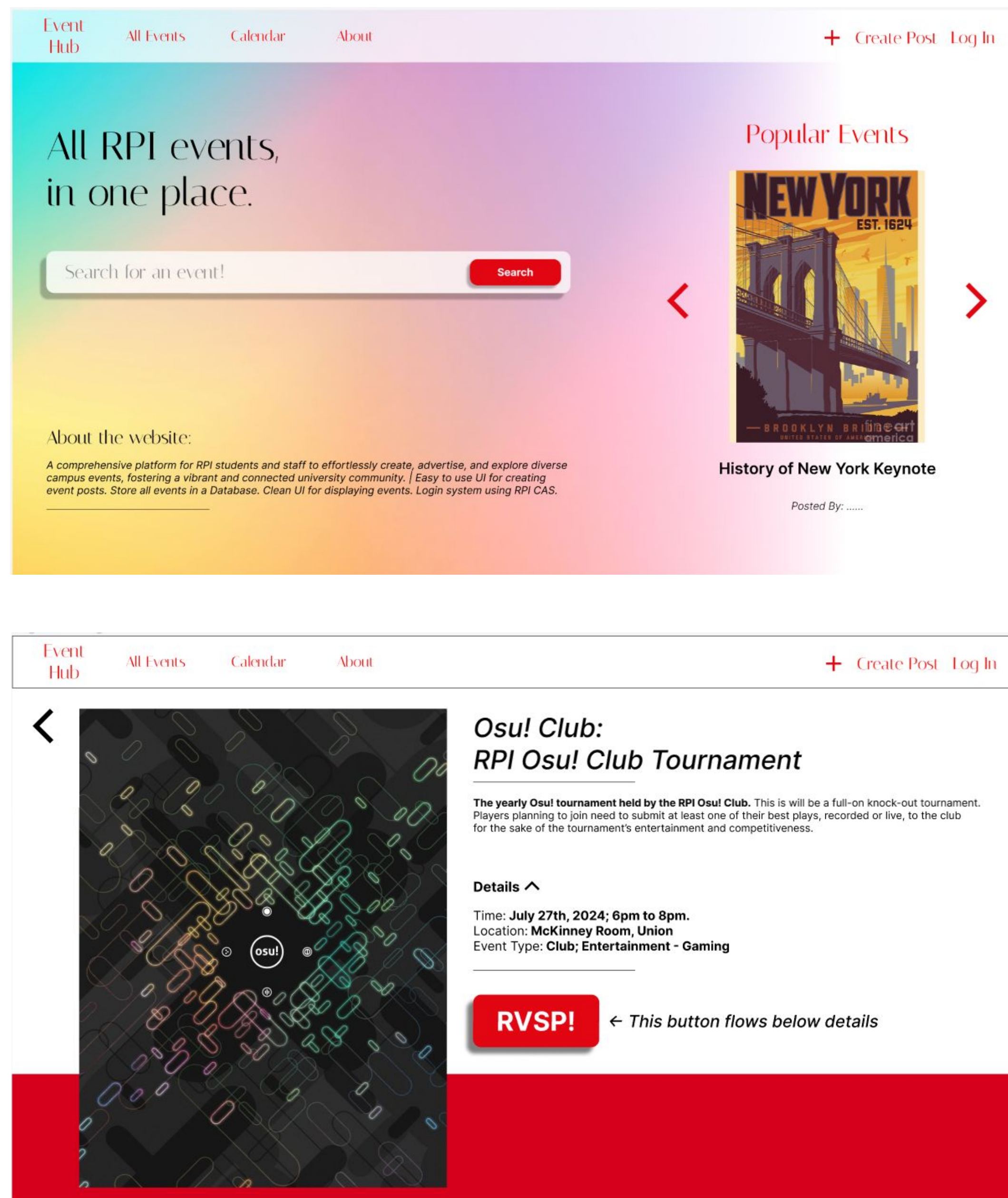
CONCLUSIONS

- Throughout this semester we have been able to get the main framework and some event pages ready. With a little bit more work, we will have a completed and working website that will be ready to support campus activities and connect students to the larger RPI community.
- Some ways that we can improve the website would be to improve the UI and get some user feedback to see what kinds of features are most useful for users who want to browse events and then creators who want to advertise their events.

ORGANIZATION

- Discord and GitHub significantly enhanced our project by streamlining communication and collaboration, complemented by a well-organized folder structure.
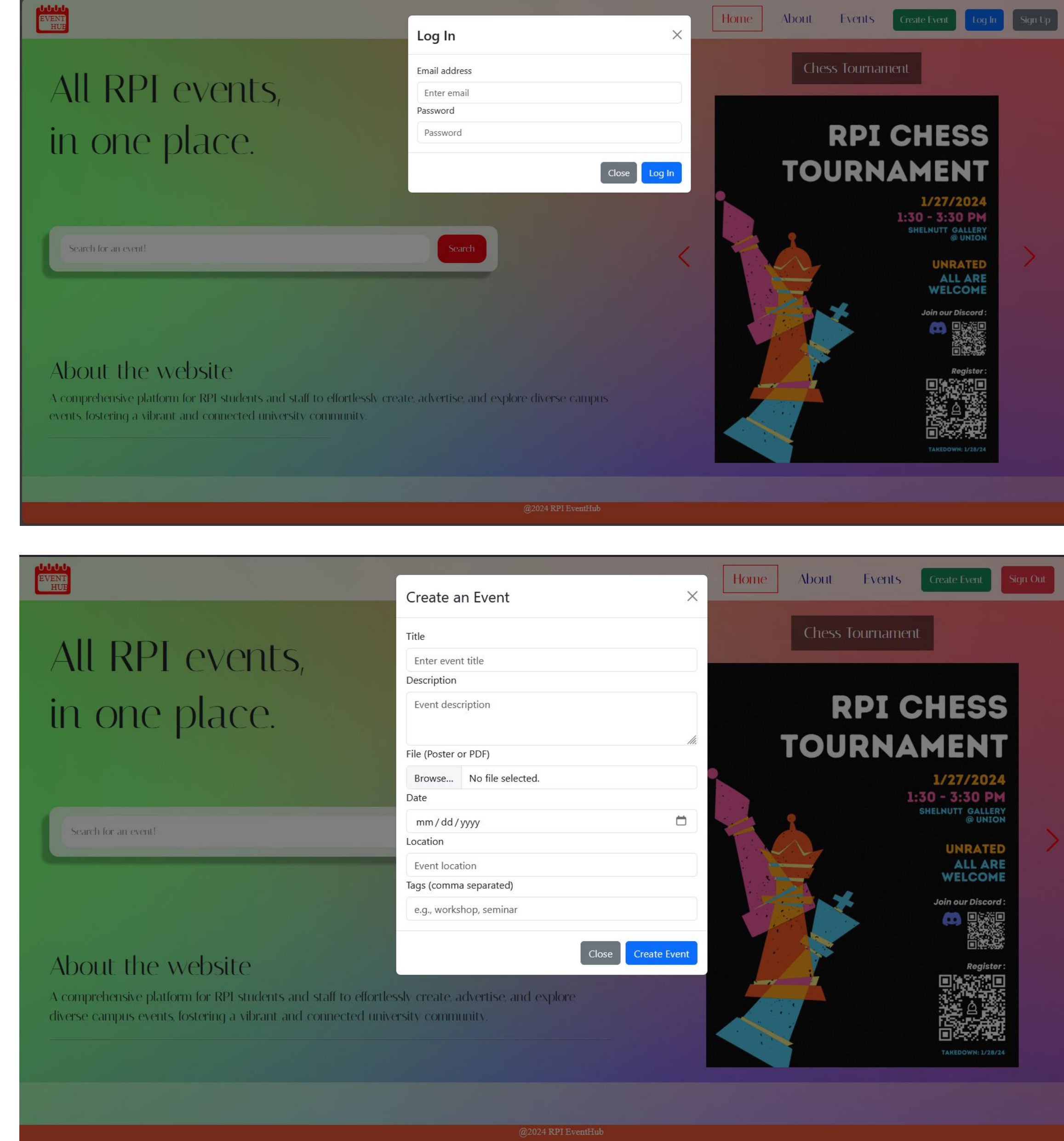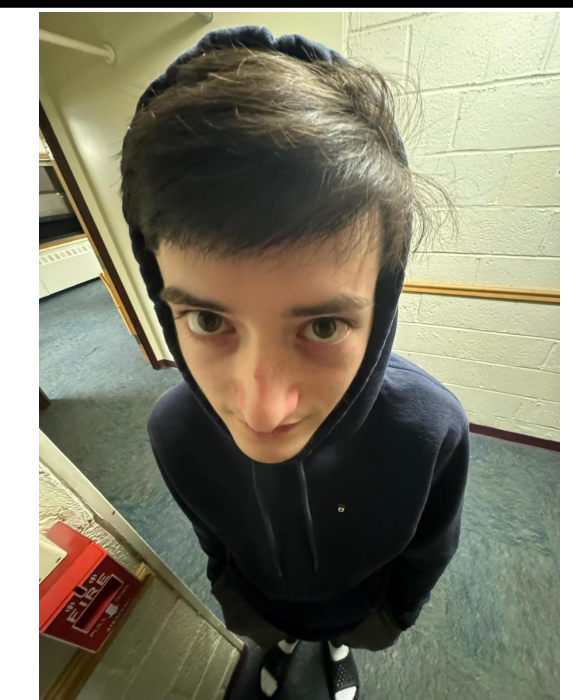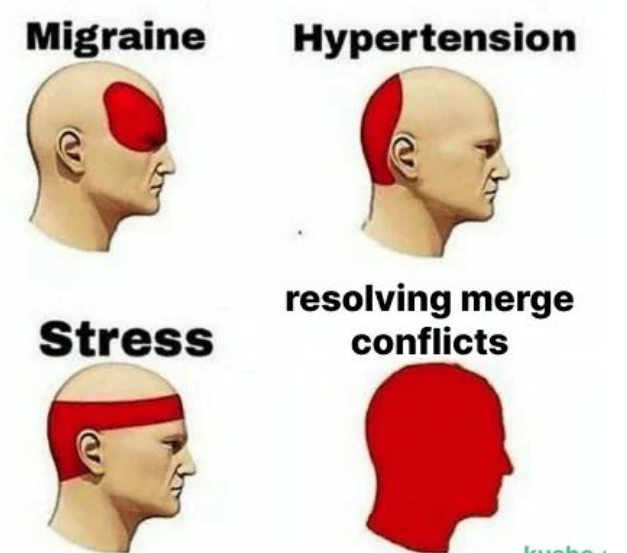
OBJECTIVES

- **Foster a Vibrant Campus Community:** By making it simpler for users to create, advertise, and discover campus events, we aim to boost participation and engagement across the university
- **Enhance Accessibility and Inclusion:** Clean, user-friendly interface for browsing events, easy navigation regardless of tech-savviness.
- **Centralize Event Information:** Gone are the days of scattered event information across various platforms. Database-driven approach means all campus events are stored and easily retrievable in one central location.
- **Secure and Convenient Login System:** RPI CAS for the seamless and secure login experience!
- **Promote Campus Resources and Services:** By featuring events hosted by RPI's various departments and services, we encourage a more engaged and informed campus population.
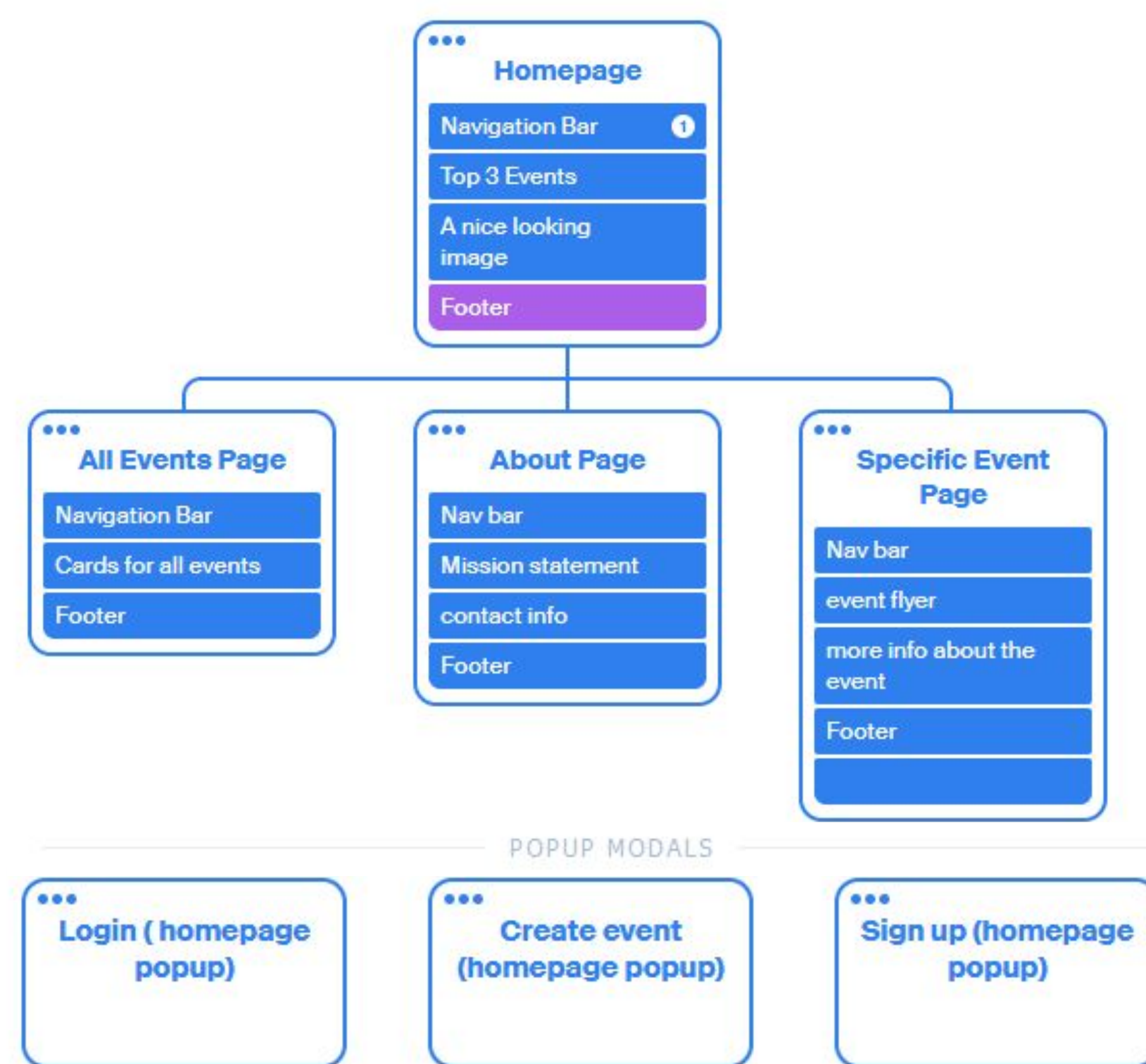
SITE MAPS AND MOCK UP
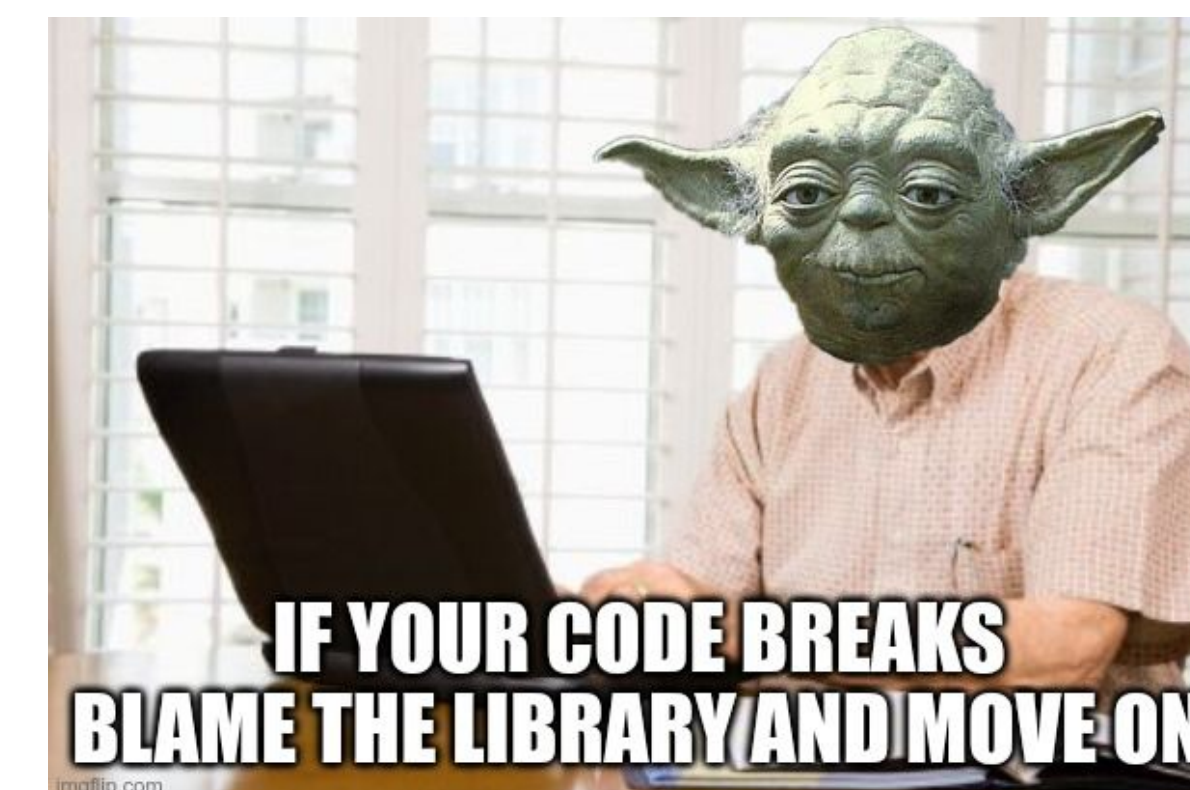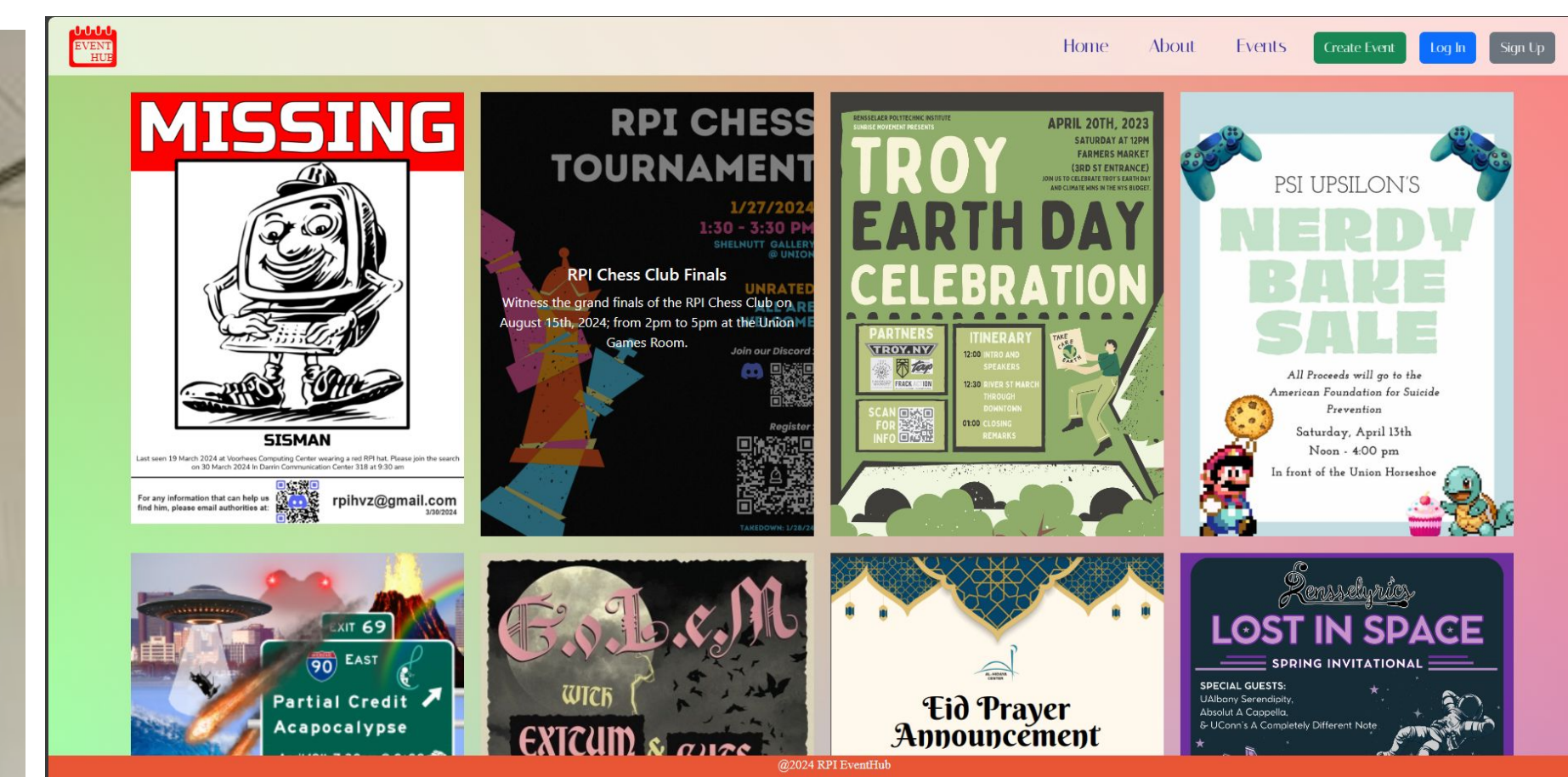
DEMO

FUTURE PLANS

1. **UX/UI Improvement:** Simplify event creation and improve display for better engagement.
2. **Database Optimization:** Optimize queries for faster performance as data grows.
3. **Documentation:** Produce clear guides and component overviews for users and developers.
4. **Advanced Search and Filtering:** Enhance search features to filter events by date, type, or interest.
5. **Mobile App Development:** Develop a mobile app to increase accessibility and provide event notifications.
6. **Inter-University Adaptation:** Explore making the platform usable across different universities.
7. **User Engagement Strategy:** Promote app usage among students and faculty.
8. **Dark mode/Customizeable theme:** Allow users to custumize

BACKEND DEVELOPMENT

- MongoDB (NoSQL)
- Authentication & Authorization
  - Secure
  - Salt and Encrypt password
- RPI Email Verification
- Users collections and Events collections
- Various API Endpoints to access the database
- Integration with front-end

CONTACT

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Join our discord! →

↑ EWW...
Tired of seeing this?