



Calendar+ Final Report

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Outline

- Project Recap
- Technology
- Design
 - Web Page Design
 - System Architecture
 - Database & Server
- Known Bugs
- Future Work



Recap: What is Calendar+?

- Calendar+ is a dynamic web application with which the user can create his/her own schedule.
- Like any standard calendar web app, the user will be able to create events on any desired valid date.
- Calendar+ is a basic CRUD application.



Technology

- Languages: HTML/CSS/JavaScript
- Backend Runtime: Node.js
 - External modules used: mysql, web-push
- Web Application Framework: Express.js
 - Middleware: morgan, body-parser, dotenv, nodemon, and express-session
- Database: MySQL via XAMPP
- Cloud Host: Linode
- Editor: Visual Studio Code
- Target Platform: Windows 10 > Google Chrome
- Version Control System: git
- Repository: GitHub

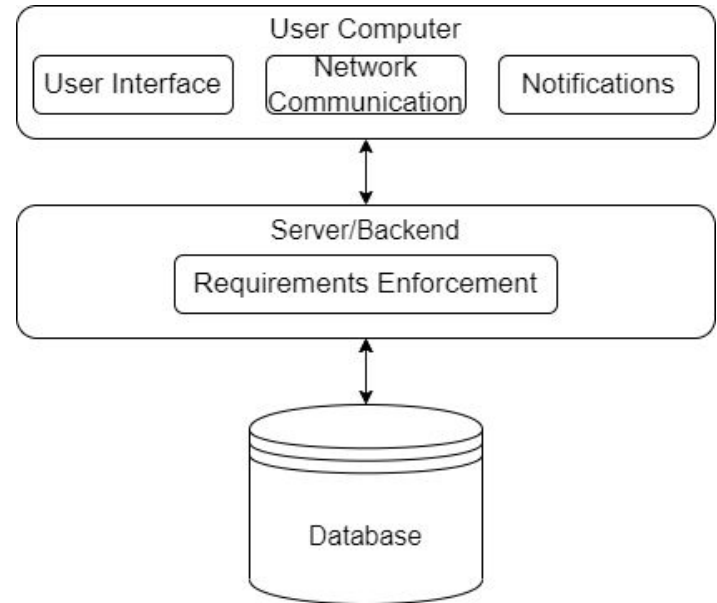


UI Design

- Designed with dark mode in mind
- Most elements use CSS flex
- Uses built in JavaScript Date object for converting and deciding where to display events
- Doesn't use any libraries
- All programmed procedurally through JavaScript
- Day and Week page had to be displayed using the code from schedule view due to time constraints

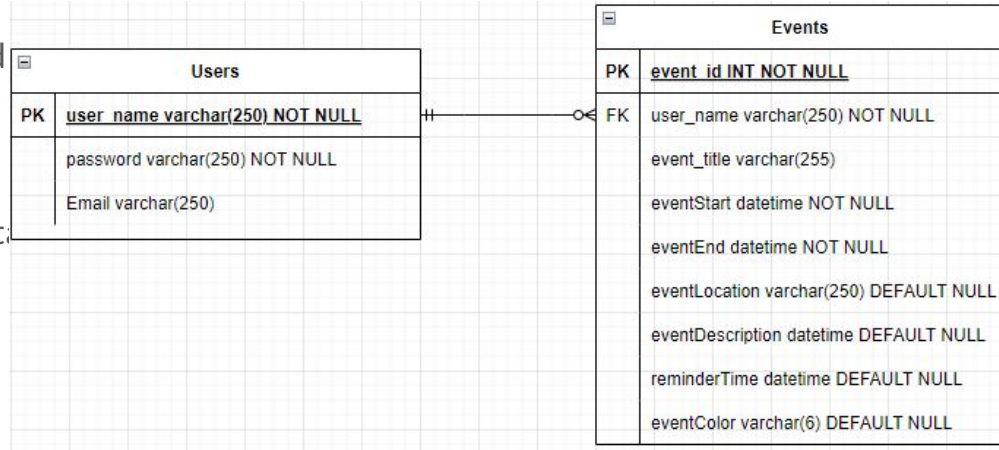
Design - System Architecture

- Three Tier Layered Architecture
 - Presentation: Where the user interacts with the web application
 - Application: Process information collected in the presentation layer, call CRUD operations in the database, business rules
 - Database: Where information is stored



Design - Database & Server

- Database has remained almost unchanged
 - The event_title field was added since the last update.
- Some Fields remain unused
- Routes have been added to send event data





Known Bugs

- Can't use quotation marks in any fields
- February appears with 5 rows instead of 6 some years on year page
- Events that span multiple days don't change date on schedule views
- Had to add 5 hours to every event when displaying because of timezone issue with Date object
- Dropdown displays behind events on the month page rather than on top.



Future Work

- Fully Implement reminders
- Allow a color to be added to events
- Multiple calendars
- Original plan for day and week views
- Advanced event search feature
- Mobile port
 - Mobile accounts for 68% of all web usage



Conclusion

- We have covered:
 - Project Recap
 - Technology
 - Design
 - Web Page Design
 - System Architecture
 - Database & Server
 - Known Bugs
 - Future Work
- Thank you for listening.
 - Any questions?