Team Financially Illiterate

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Project/Business Case

Problem: Keeping track of money is complicated

- Budgeting requires a lot of tracking
- Numbers have to come from many different places
- Automating calculations could save a lot of stress



Project/Business Case

Solution: Financial Planner

- Track income, bills and other payments
- Calculate monthly budget and savings
- Visualize spending and savings to make it understandable



What I've learned - Ethan Shilo-Draper

- Difficulties of group coding
 - Making progress without stepping on each other's toes
 - Importance of frequent communication and progress sharing
- Plan for things to go wrong
 - o Tight schedules are near impossible to adhere to
- Different development frameworks are more similar than I realized
 - More of my .Net knowledge was transferable to React than expected
 - Being a good software developer is as much about methodology as language knowledge



What I've learned - Kasey Bourdier

Team

 I've gained experience with working with a team in a large project

Communication

 I learned being punctual is very important when working with team members

Project

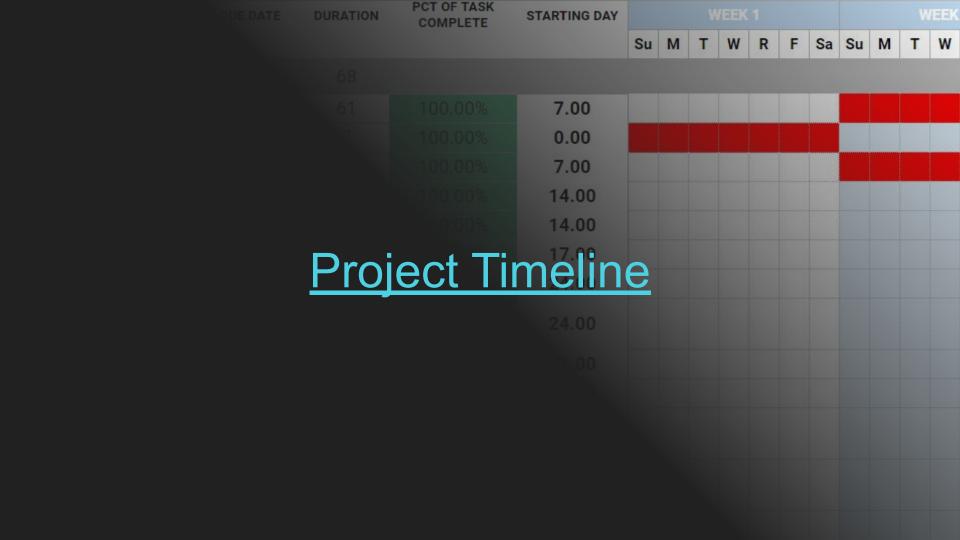
 I gained knowledge of new technologies I was not previously familiar with like React

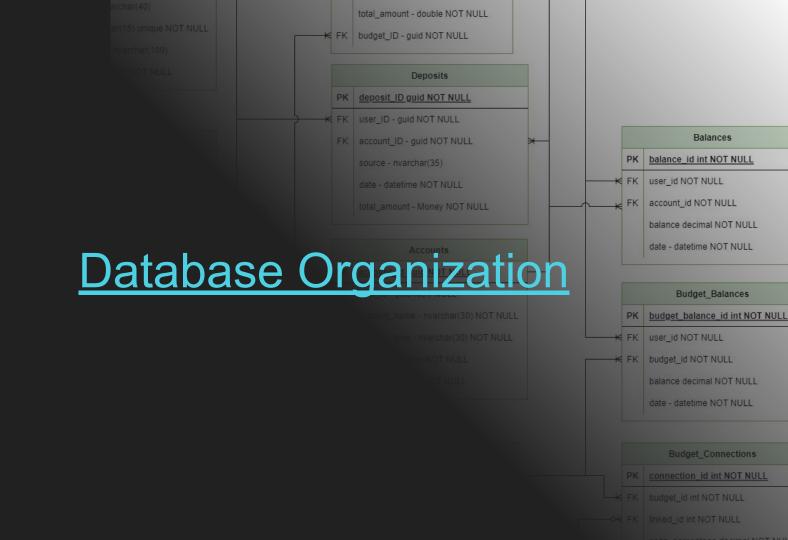


What I've learned - Ryan Nixon

- Communication
 - Clear Communication is key
- Thorough planning is important
 - Plans always change
- Technologies
 - Familiarized myself more with Node, Express, React.js, AWS, and Heroku







Stored Procedures



Stored Procedures List:

Create_Budget Create_Deposit Create Snapshot Delete Deposit Delete Expenditures Edit_Deposit Edit_Expenditures Edit_Income Take_Snapshot Update_Bills Update Income

Project Obstacles

- Technology Unfamiliarity
 - Some technologies were unfamiliar to us
- Keeping Deadlines
 - Catching up on overdue tasks while continuing forward progress
- Team Communication
- Increase of Scope





Client Side

- Built in React.js
 - Mix of Javascript and Typescript
- MVC design
 - Model Handled by backend and MySQL server
 - View JSX pages and components
 - Controller React hooks using Ajax calls
- Use of components
 - Keeping CSS centralized through reusable JSX
 - All forms, modals, buttons, etc. are handled together



Backend

- Server
 - Express
 - Structure
 - Routes
- MySQL Database
 - o Run in AWS
 - Connected and escaped using MySQL node module





Deployment

- 2 Heroku Dynos
 - ~\$7 a month each
- AWS Relational Database Service
 - Free Tier 20gb/750 hours month
- Backend
 - Application config var's set on heroku

Response Time

Throughput

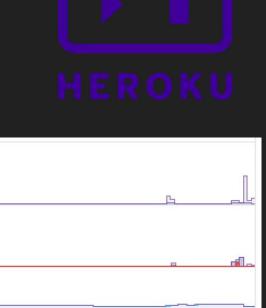
37 ms

< 1 rps

Memory

15%

Db info





Summary

To Summarize:

- Project scope
 - What we initially planned can always change
 - Technical design changes
 - Changes in team assignments

- Gained more technical experience
 - Group coding / Working with teams
 - Communication
 - Became more competent software engineers



Dashboard

Savings

Bills

Upcoming Bills

No upcoming bills!

Project Demonstration

anner web tool

Keep track of all of your bills. Here, you can view all of your regular payments broken down by date, company, and amount.

Go To Bills