

Where's My School Bus?

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Project Outline

- Project Description
 - Definition
 - My solution
 - What I didn't solve
 - Methods - React Native
- Demonstration
- Strategies for learning
 - YouTube, StackOverflow, alumni, Dr. McVey and Dr. Pankratz
 - Advice for future projects
- Q&A

Project Description

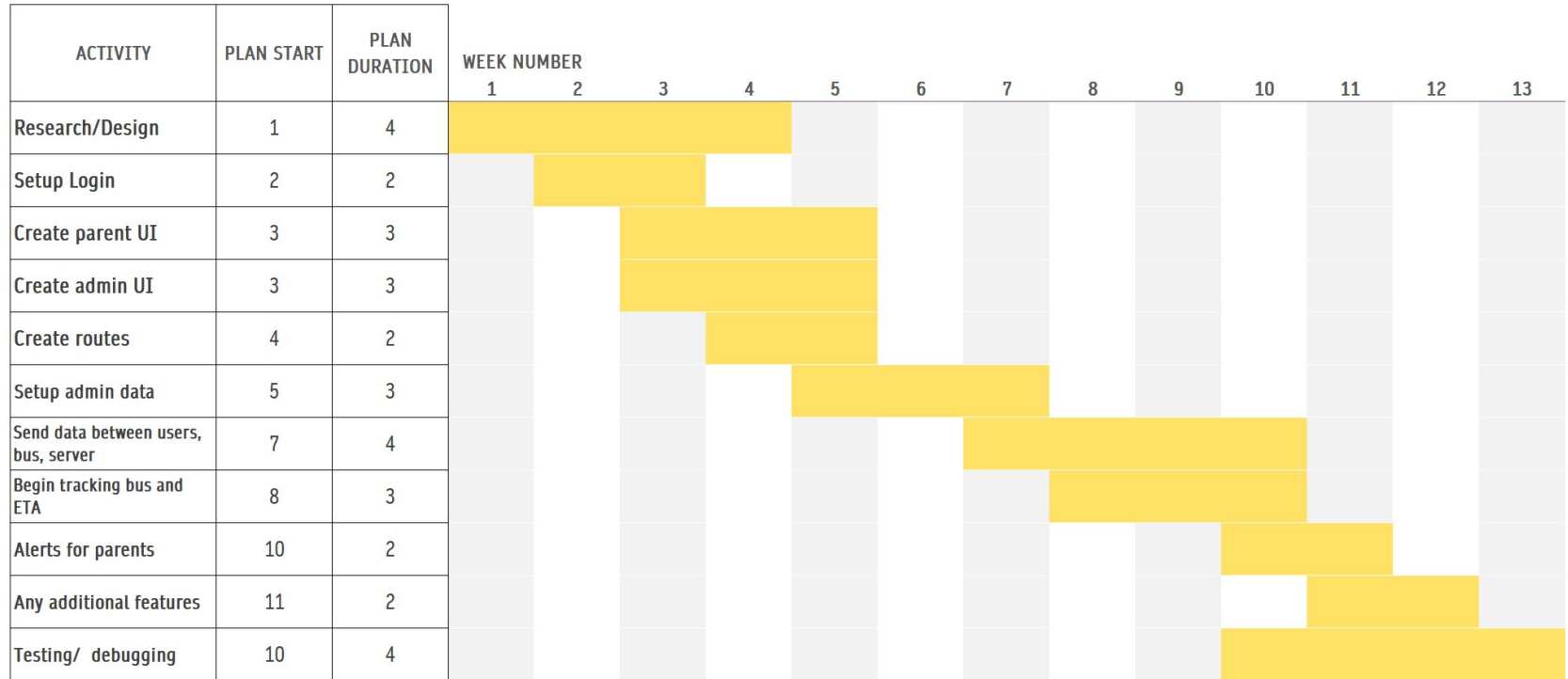
Project Definition

Design a mobile app that allows parents to know when their child's school bus will arrive.

- Requirements
 - Must work for any bus route
 - An admin determines the bus route, stops, and users.
 - Predicts ETA.
 - Possibly shows the current location of the bus.
 - The app can start dinner for the family and do the kid's homework so they can live happily ever after. 😊

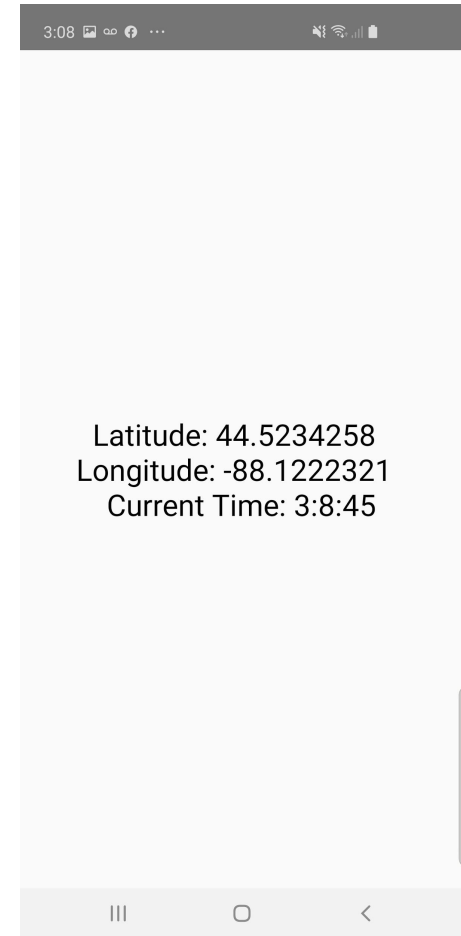
My Solution

Gantt Chart

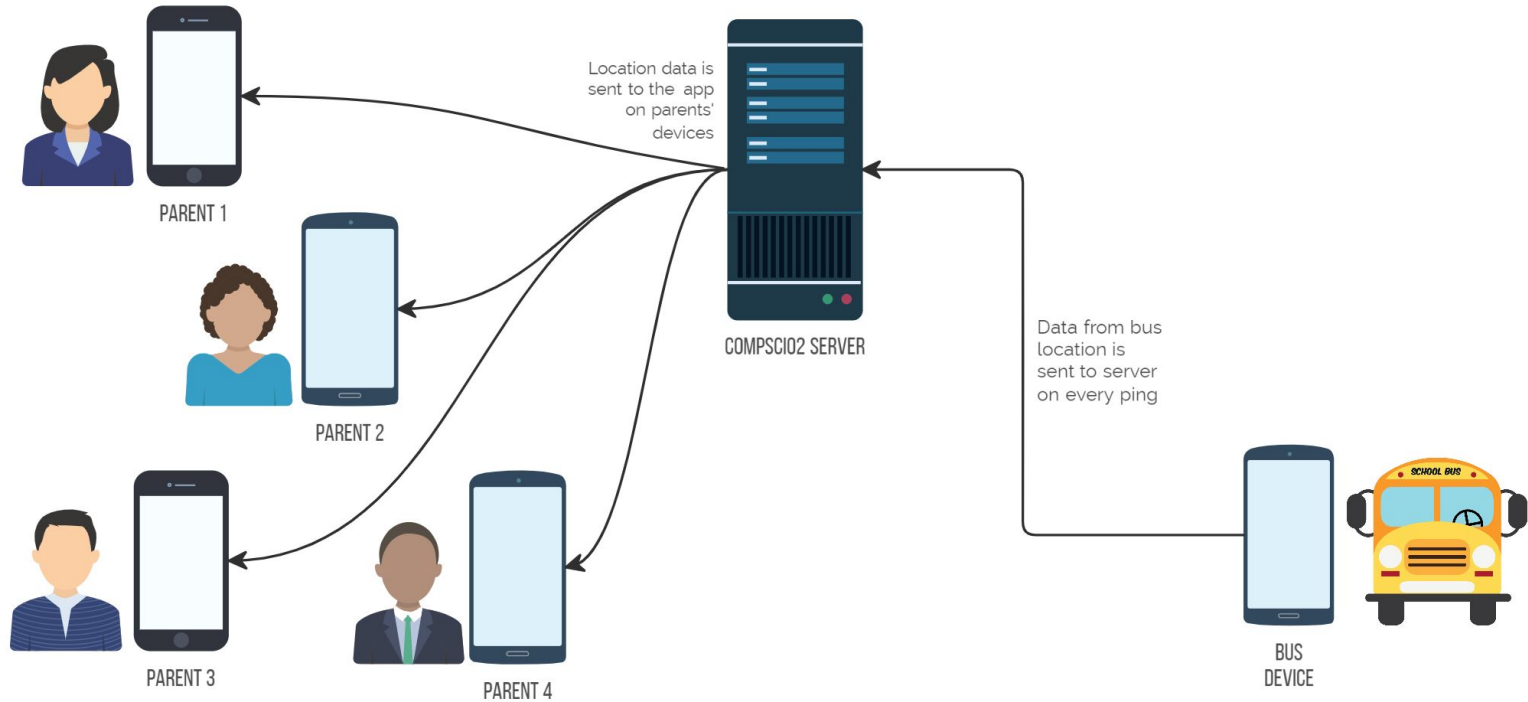


Started Small - Bus App

- Latitude, Longitude, and Time
- Geolocation API w/ array
- Set an interval
- Android specific - Expo

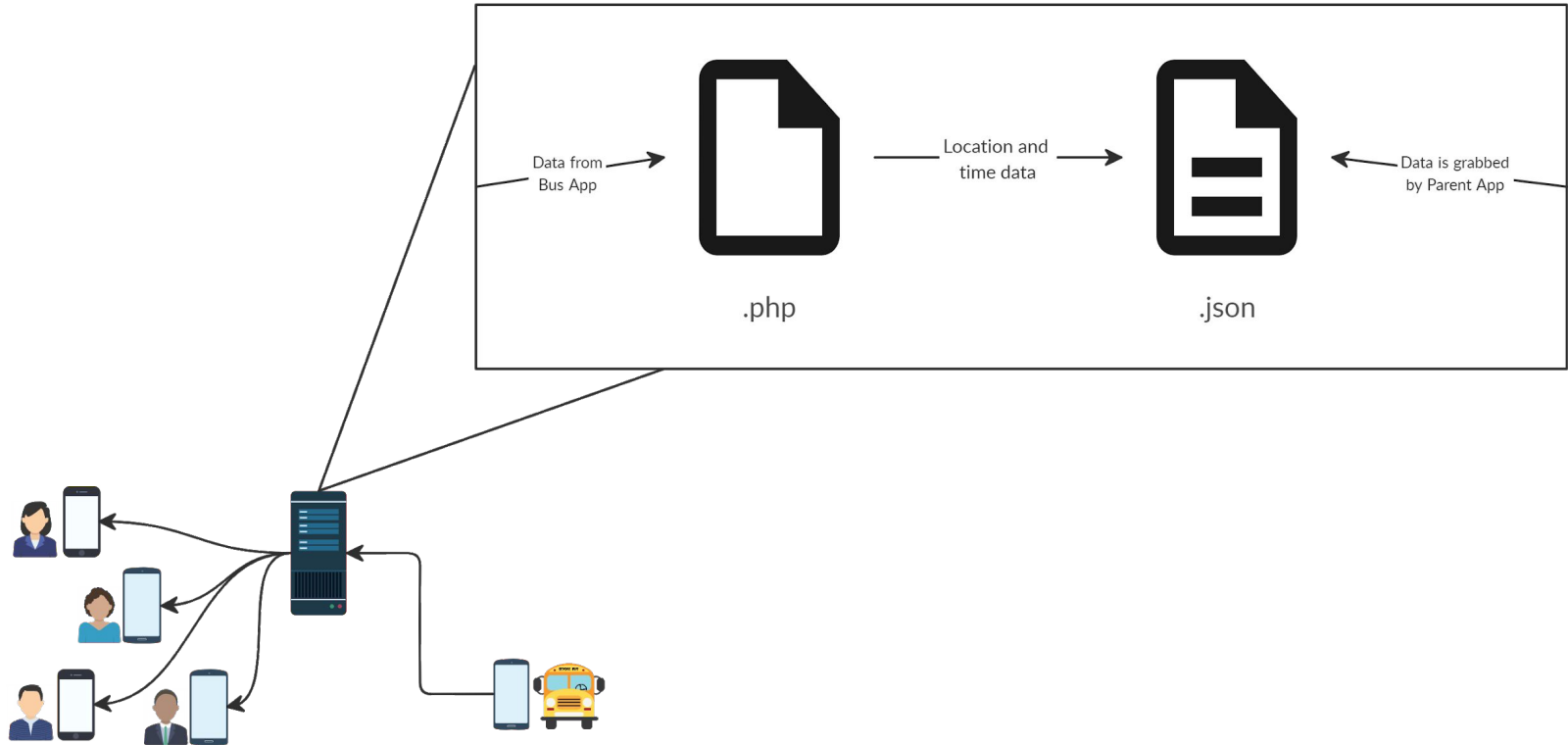


Server Communication



ETA is calculated in app on parents' devices.

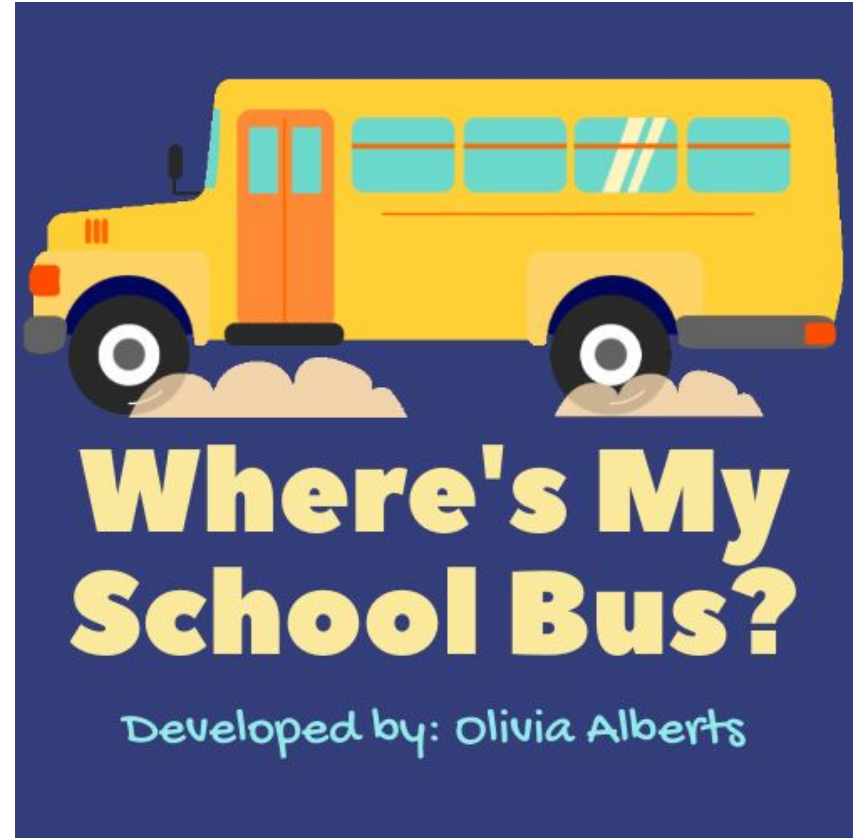
More Server Communication



Parent App

- Getting the data
- When is a bus stopped?
- When is a bus AT a stop?
- How do we calculate ETA?

I felt as though my Parent App wasn't as developed as I had hoped it would be.



User Demo

Some code behind it all..

What I Didn't Solve

- Would like a more accurate ETA
 - Google Maps
- Would like a more developed Parent App
 - No Alerts
 - Multiple screens
 - Admin and Parent login
 - Visual
 - Many, many more...
- The app can't do homework or cook dinner 😞

Strategies

- YouTube
 - Allows you to walk through it step by step with someone teaching you
 - The Net Ninja
- StackOverflow
- The Medium
- Alumni
 - Bryan Nolan and Alyssa Kohr
 - Server Communication
 - Dr. McVey and Dr. Pankratz
 - Server Communication, thinking out problems, Capstone Class



Advice for future Where's My Bus developers

- Don't struggle for too long - it will cost you later on
- If you're stuck for more than a few days, ask for help!
- Google Maps API
- Pen and paper helps - draw things out
- DIAGRAMS
- Don't forget about the user interface - it's really important

Q&A

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Thanks for your attention and for a
wonderful semester!