

Dashboard PDR Presentation

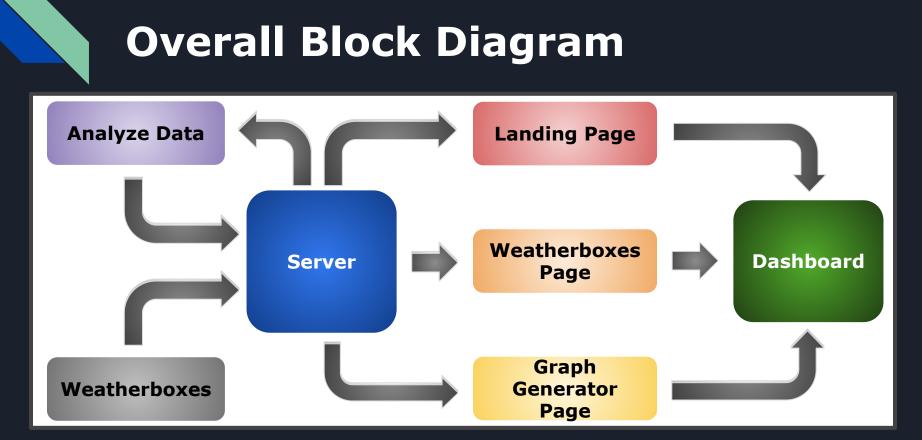
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Overview

- 1) Overall Block Diagram
- 2) Progress Since Proposal Presentation
- 3) Problems Encountered
- 4) Team's Progress

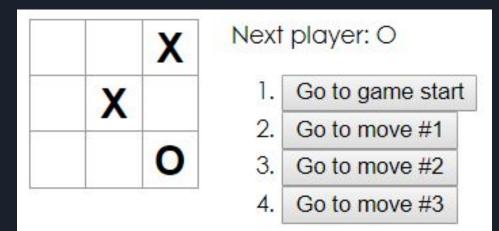
Overall Block Diagram



Progress Since Proposal Presentation

Coding Exercises and Documentation

- Familiarize self with JavaScript and ES6
- Create a simple React app

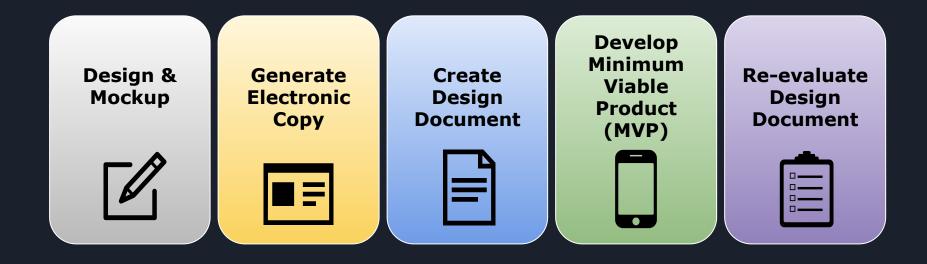


React Exercise

- Task 1: Accumulate and display button clicks depending on button being pressed.
- Task 2: Break up main file into components.
- Task 3: Install and understand Semantic React.

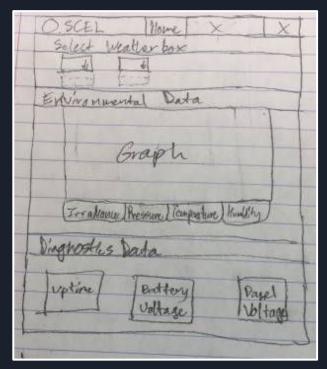


Design Procedure



Design and Mockup

- Select a weatherbox and a node
- Shows environmental and diagnostics graphs for selected weatherbox and node



Electronic Copy and Design Document

Smart Campus	Energy Lab	Home	Weatherboxes	Graph Generator
Veatherbox Sele	ction			
Se	elect weatherbox ⊽	Select n	node ⊽	
Environmental D	ata			
	Environment	al Data Graph		
icon) Solar Irradiance	(icon) Pressure	(con) Temperatur	re i i i i i i i i i i i i i i i i i i i	nidity
Solar Irradiance	0	(con) Temperatur	re i i i i i i i i i i i i i i i i i i i	nidity
0		tage Graph	re (con) Hur Panel Voltaç	



Evaluation of Design

- Multiple node display
 - Comparison of different node data for specific box chosen
- Display of graphs
 - Environmental data will be displayed all in one page



Modular Code

- Efficient for creating similar components
- Easier implementation for additional/new modules
- Examples of benefits for dashboard:
 - Priority for data display
 - Display only desired graphs
 - Addition of a new page
 - Display graphs for a new set of parameters

Problems Encountered

Problems Encountered

- React Exercise:
 - Components (Resolved)
 - State changes immutable
 - Understanding how state changes work
- Time Management
 - Course workload
 - Midterms time in semester
 - Deadlines scheduled on same days

Team's Progress



Team's Progress

Training

(Complete)

Design Documents

(Ongoing Progress) Dashboard Deployment and Development

(Starting)

Minimum Viable Product

(Ongoing Progress)



Questions?

Thank you!



Sources

SCEL Logo: <u>https://avatars0.githubusercontent.com/u/7014873?s=200&v=4</u>

Tic-Tac-Toe Picture by Gordon Li

SCEL App Picture by Gordon Li

Weatherboxes Page Mockup by Gordon Li

Weatherboxes Page Electronic Copy by Gordon Li