

# Dashboard PDR Presentation

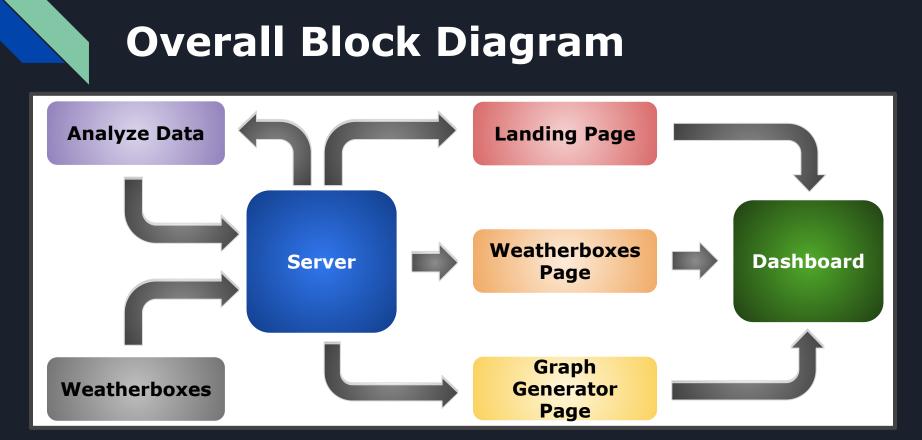
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#### **Overview**

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

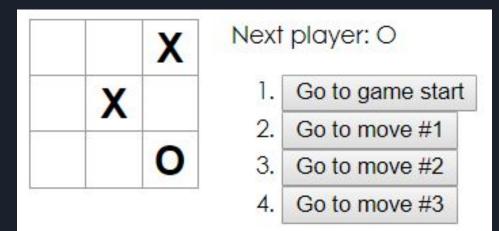
# Overall Block Diagram



### **Progress Since Proposal Presentation**

#### **Coding Exercises and Documentation**

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

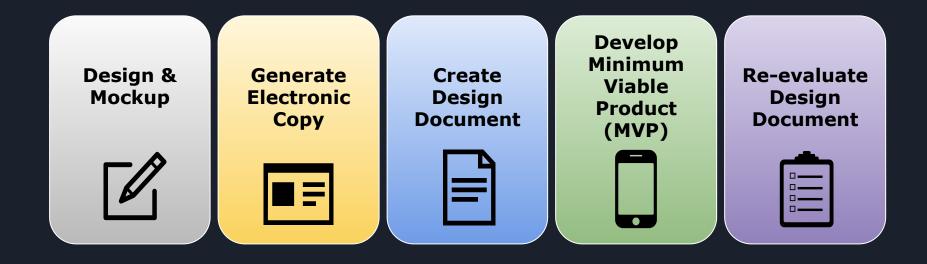


#### **React Exercise**

- 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.

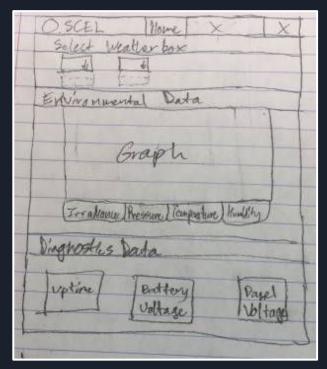


### **Design Procedure**



### **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