

Dashboard Proposal Presentation

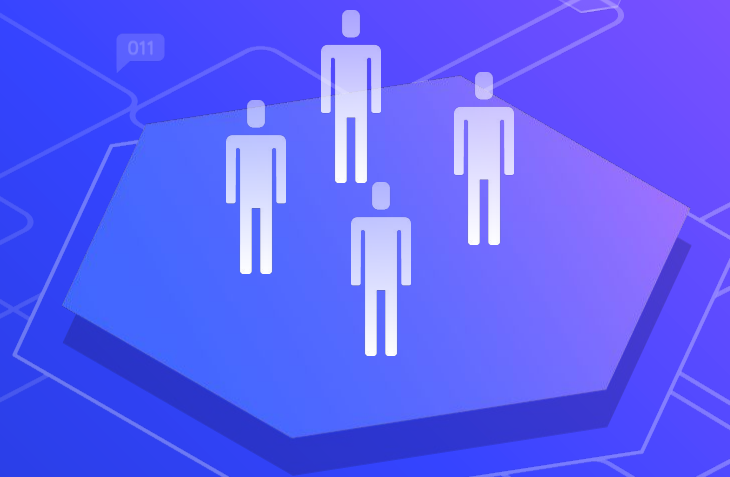




Presentation Overview

- Introductions
- Project Overview & Goals
- Project Approach
- Potential Problems
- Learning Expectations
- Timeline/Gantt Chart
- Questions

Introductions





Jianna Orias

Major: Computer Engineering

Role: Back-end

Project: EE / ENGR 496





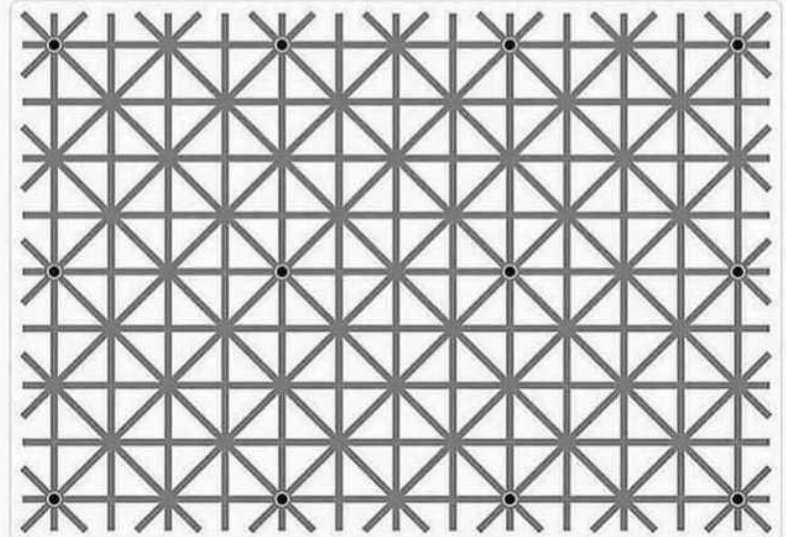
Andrew Salazar

Major: Computer Engineering

Role: Back-end

Project: EE / ENGR 496

There are twelve black dots at the intersections in this image. Your brain won't let you see them all at once.





Kevin Liu

Major: Computer Engineering

Role: Front-end

Project: EE / ENGR 496





Jonathan Tu

Major: Computer Engineering

Role: Front-end

Project: EE / ENGR 496



Project Overview & Goals





Project Overview & Goals

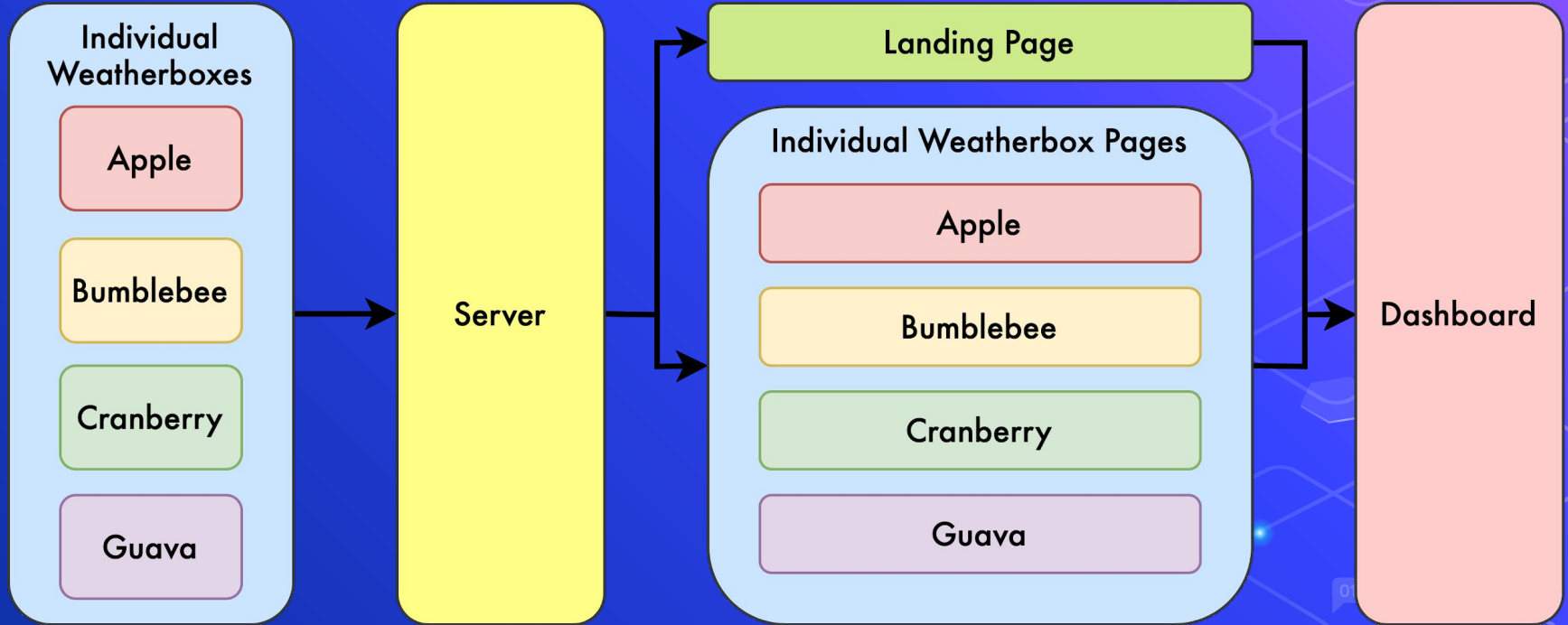
- Translate Dashboard from pure Semantic-UI HTML/CSS to ReactJS
- Develop back-end code to link to front-end code
- Develop a simple database to store data from weatherbox
- Present data correctly onto dashboard
- Deploy dashboard website to a server

Approach & Current Progress



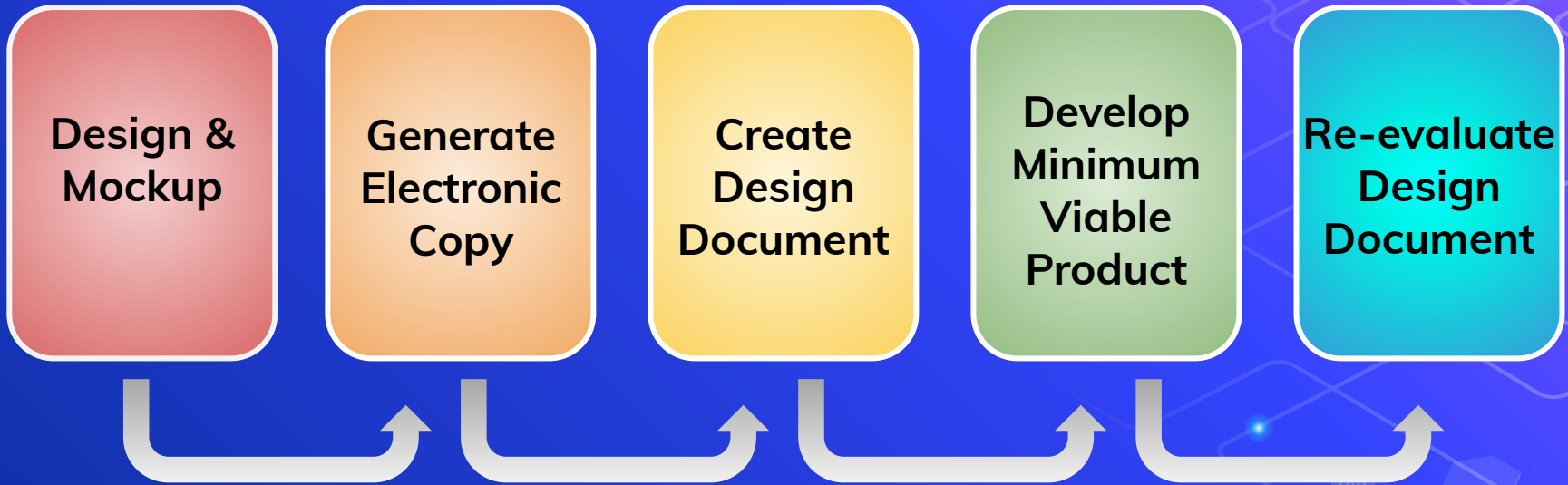


Overall Block Diagram





Design Procedure





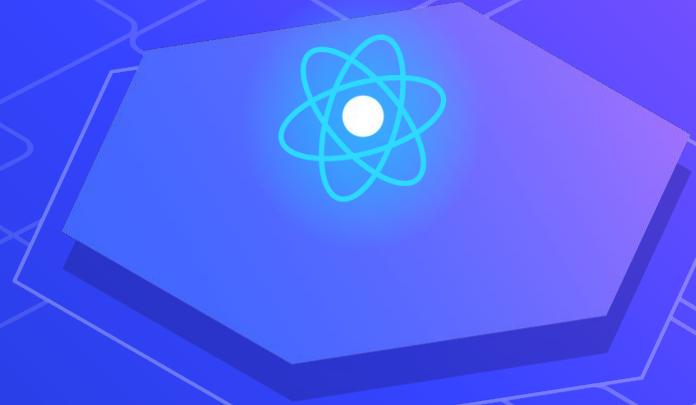
Approach

- React components makes the UI
 - 1) Reusable / Adaptable
 - 2) Cleaner / Simpler
- Online tutorials for new frameworks
 - SQL/MySQL
 - Django
- **Focus on back-end this semester**
- Understand weatherbox data collection into gateway
- Division of labor and tasks
 - Switch around for front-end, back-end functionalities

Current Progress

- New repository created for translating previous Dashboard → ReactJS
 - Each member working on creating the Dashboard components
 - Menu/NavBar
 - Graph (shows independent value over time)
 - Averaged Values
 - Map

Potential Problems

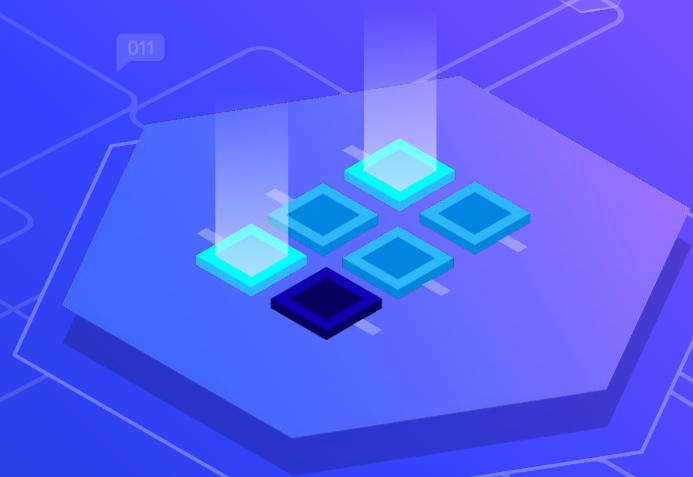




Potential Problems

- ⬡ Steep learning curve
 - SQL/MySQL (Database)
 - Django (Back-end)
 - Integrate everything together
- ⬡ Time Management
- ⬡ Accessing SCEL server data
 - Communication with Firmware for database access
- ⬡ Deployment of the Dashboard
 - Meteor? Another platform
 - Choosing a database hosting server

Learning Expectations





Learning Expectations

- Code Frameworks
 - ReactJS (familiarize again)
 - SQL/MySQL
 - Django
- Problem Solving Skills
- Communication Skills
- Able to access and manage data from the SCEL server
- Gain some knowledge on full-stack development



Gantt Chart





Questions?

001

011

010

Extra resources

