Project Plan Presentation
Driven Connect Application, Server, and Backend
The Capstone Experience
Team Driven-4

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Project Sponsor Overview

- Consultation, Solutions, and Operations
- IoT/IIoT PLM, Service Management, Security
- One-Stop Shop for IoT Solutions
Project Functional Specifications

• Eases access to products
• Creates interface for user interaction with product
• Visually Intuitive Web App
Project Design Specifications

- App is a Web Application
- Follows Driven-4 Branding
- Left-hand Menu (collapsible) Navigation
Screen Mockup: Admin Dashboard
Screen Mockup: User Management
Screen Mockup: All devices page
Screen Mockup: Device management
Screen Mockup: Data Analytics
Project Technical Specifications

• System Architecture
• Database Schema
• Style Guide
System Architecture
Project System Components

• Hardware Platforms
  ▪ Driven IoT Connectivity Board

• Software Platforms / Technologies
  ▪ Python, Flask
  ▪ MySQL
  ▪ Pandas
  ▪ HTML, CSS, JS, Bootstrap
  ▪ Amazon Web Services (AWS)
Project Risks

• Performing data analysis on data in unknown formats
  ▪ The user will have the ability to view different kinds of data regarding their device
  ▪ Data abstraction into a Matplotlib graph
• Linking parts of our system together
  ▪ Our application allows users to access information from different parts of the server
  ▪ Set up communication between all parts of the server
• Real-time notifications and updates
  ▪ Several aspects of our application require us to send information in real-time
  ▪ Set up real-time communication inside our system
• How to make an OTA server work with cellular
  ▪ The OTA server for now can only send updates over wi-fi
  ▪ With proper research we will rewrite the OTA function and allow cellular updates.
Questions?