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Meet the Team

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The Problem
Problem Statement

There is no system in place that allows staff, students, and visitors to know when a parking garage or lot has available parking or if it is full. This leads to a backup of traffic in the garages and lots which makes people late while trying to find available parking.
Counting System In Place

T2 Systems

- ODU knows that parking is a problem for many of its students and visitors.
- ODU contracted with T2 Systems to install hardware that tracks how many cars fill each lot.
- T2’s hardware is available as metal counting loops in Garages A and D, and Lots 42 and 43.
- T2 does not develop custom mobile apps and websites for customers. An outside app would need to work with the system.
The Customer

● Developing for
  ○ ODU’s Transportation and Parking Services Department

● Used by
  ○ ODU Staff
  ○ ODU Students
  ○ ODU Visitors
Our Solution
Our Solution

- **Back end server**
  - Uses SOAP to pull information from T2 Systems using their API
  - AJAX is used between the back end and the front end to communicate occupancy information

- **Front end is a website with the following attributes:**
  - Scrolling alerts related to parking
  - Custom ODU campus map
  - Filtering based on permit type
  - Color coding to represent occupancy status
  - Additional information related to garages and lots
Prototype Demonstration

https://ec2-54-152-3-83.compute-1.amazonaws.com
Prototype Demonstration (cont’d)

MonarchPark Admin Page

Enable Parking Status Alert

☐

Status text:

warning, lot 49 flooded

data update rate (ms):

600000

Submit