Group 19
Parking System

Team Members:
Suva Shahria, Krithika Uthaman, Andrew Schneeloch, Josh LoGiudice, Gabriel Shen, Anthony Lau, Jahidul Islam, Yu Liu & Max Davatelis

Roadmap

Introduction

Goals

Security

Code Demos

Going Forward

Parking System Introduction

Current Rutgers Parking Problem:

- No tracking system
- Regulations vary by parking lot
- Wasteful

Proposed System Major Attributes:

- Reservation by Availability done through system
- Interactable Map with location information/ Campus-Lot Selection
- Simple for ease to use

Goals

Reservation Parking:

- Easily select time and location
- Track user selections to aid in future selections

Interactable Map:

- Allow user to visualize parking locations
- Attain info on particular parking spot

Worry Free User Experience:

- System handles rules and regulations
- Easy to use reservation

Security

Convert users password using a hash function to a new hashed password

Hash function: Maps data of arbitrary size to a fixed-length hash

Properties to ensure security:

1. Calculated Quickly

2. Preimage resistant

    -Difficult to backtrace

3. Strongly collision free

    -Difficult to find message m1 , m2 such that H(m1) = H(m2)

Roadmap

Introduction

Goals

Security

Code Demos ←

Going Forward

Going Forward

Major Points:

- Finish Coding
- Integration
- Testing
- Put Everything Together
- Notifications