From Students…
…to Professionals

MICHIGAN STATE UNIVERSITY

Alpha Presentation

CATAlyst: Mapping CATA Routes and Buses in Real-Time

The Capstone Experience

Team Michigan State University

Catherine Dinsmoor
Charles Ward
Thomas Beaver
James Dodge
Jimmy Mkude

Department of Computer Science and Engineering
Michigan State University
Spring 2017
Project Overview

• Users can access real-time CATA bus locations, stops, and routes
• Schedules can be entered
  • Push notifications
  • The fastest route to their destination
System Architecture
Home Screen
Scheduled Directions
Selecting a Route
Displaying Next Bus Arrival
Inputting a Schedule

Class Start Time:
10:20 am

Class Name:
ISS 101

Your Initial Location:
325 Shaw Lane, East Lansing

Class Location:
Brody Hall, East Lansing

Save

Class Start Time
10:00 am

Class Name
ISS 101

Your Initial Location
325 Shaw Lane MSU

Class Location
Brody Hall MSU

SAVE
Schedule View
What’s left to do?

• Loading schedules to implement push notifications
• Interpolation of buses in between pulls from CATA
• Search bar for locations
• Scaled testing with users on campus
Questions?