MICHIGAN STATE UNIVERSITY Beta Presentation CATAlyst: Mapping CATA Routes and Buses in Real-Time

The Capstone Experience

Team Michigan State University

Catherine Dinsmoor Charlie Ward Tom Beaver James Dodge Jimmy Mkude

Department of Computer Science and Engineering Michigan State University

Spring 2017

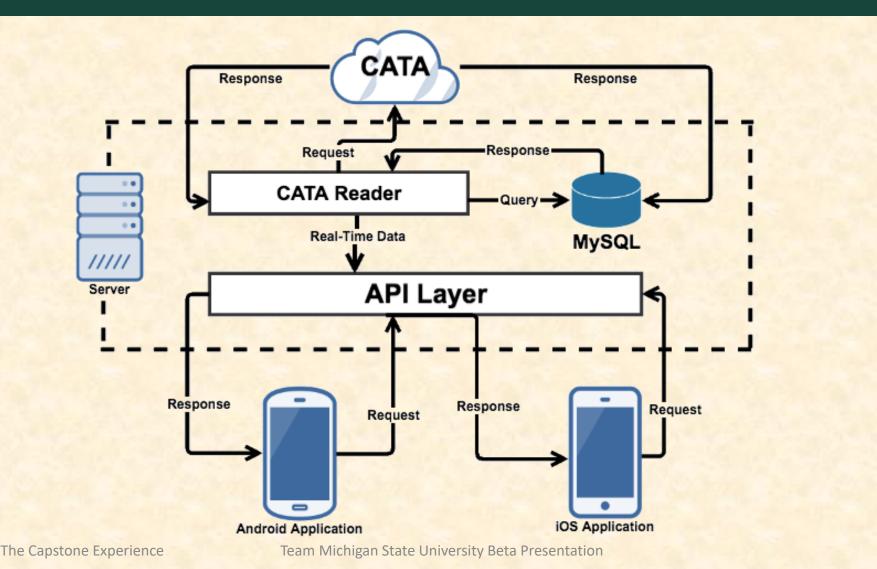


From Students... ...to Professionals

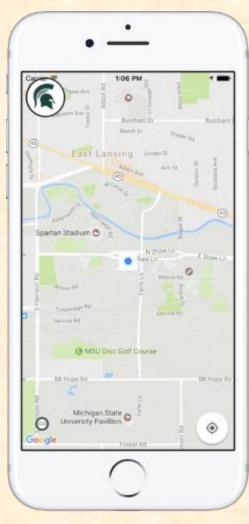
Project Overview

- User's can access real-time CATA bus locations, stops and routes
- Schedules can be entered
 - Local Notifications
 - The fastest route to their destination

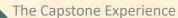
System Architecture



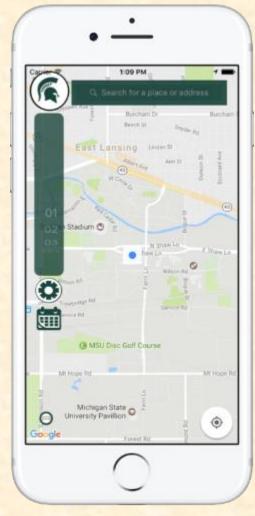
Home Screen







Route Filtering Drop-Down





Search Functionality Auto Complete

	11:01 AM	(i) 7 84% (iii)
Q. W	iison Hall	Cancel
Wilson Hall Wilson Road, Eas	t Lansing, MI, United	States
Wilson Hall Charlottesville, W	A. United States	
Wilson Hall Roa Sumter, SC, Unite	d	
Wilson Hall Nashville, TN, Un	ited States	
Wilson Hall Chapel Hill, NC, U	Inited States	
	rty	uiop
q w e	بنبب	
q w e a s c	l f g h	j k l

	s
÷	wilson hall $ imes$.
	Wilson Hall Wilson Road, East Lansing, MI, United S
	Wilson Hall Auburn Hills, MI, United States
	Wilson Hall Road Sumter, SC, United States
	powered by Google
	Ŷ
q ¹ w ²	$e^{3} r^{4} t^{5} y^{6} u^{7} i^{8} o^{9} p^{0}$
a s	sd fghjkl
± z	x c v b n m 🖾
?123 ,	. 🔍
7	▽ ○ □ ■

Schedule Input

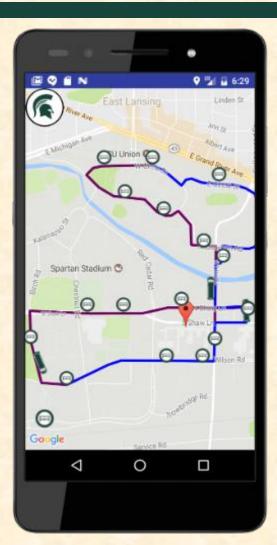
Image: Constraint of the second s	Class Start Time 9:10 am Class Name PHY 183 Your Initial Location *Leave blank to use current Wilson, 219 W Class Location 567 Wilson Rd	n ticcation ilson Rd, Ea	 Monday Tuesday Wednesday Thursday Friday Saturday Sunday
Save	⊲	SAVE	

Local Notifications

Carrier ♥ 2:59 Wednesday, March 29	AT&T 1983 # 4 6% D 11:13 Mon, April 3
CATALYST Im ago Leave in 10 minutes for CSE 231 It will take 5 mins to walk to your stop. Total trip time: 14 mins. Origin: Hubbard Hall Destination: Wilson Press for more	CATAlyst 11:12 PM Leave in 10 minutes for CSE 498 It will take 7 min(s) to walk to your stop. Total trip time: 16 min(s). Origin: Hubbard Hall Destination: Wilson Rd
Press home to open	And the same that your finger covers the entire Home key

Route Highlighting

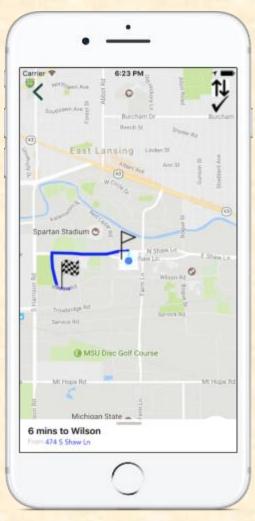


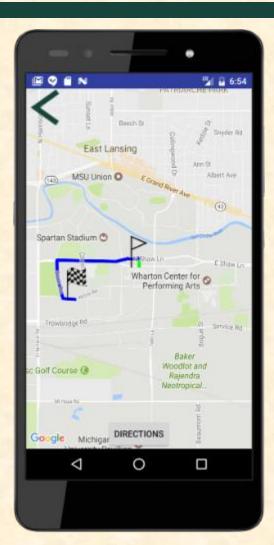


Directions List

•		•		•
Carrier • 6:24 PM	1 I		мар	🎾 🔒 10:5
6 mins to Wilson	Ruletam	Total: 6 1.0 mi From: 474 \$ Si	mins to Wi	son
2 mins 423 fe Walk to WSD Shaw before Red Cadar Rd	×	2 mins		Ż
4 mins 1.0 mi Route: Bus towards 33 Holden Halls - South Campus Board at WBD Shaw before Red Ceder Rd (4 stops) Exit at EBD Wilson before Chestnut		4 mins	Shaw before Red Ce 13 Holden Halls - So	Ģ
	12-			
	1		0	
			0	

Visual Route Directions





What's left to do?

- Scaled testing
- Bug fixes
- Project Video

Questions?

