Beta Presentation
Spartan Experience App

The Capstone Experience

Team Michigan State University

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Michigan State University

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Project Overview

• Mobile app to enhance student and visitor experience at MSU

• Provides info in a user-friendly format
  ▪ Dining hall menus and hours
  ▪ Building and parking lot hours, locations, maps
  ▪ Events on campus
  ▪ Twitter feed of official MSU accounts
  ▪ Context-sensitive info
    o Specific to user’s location and the time of day
System Architecture

External Data Feeds
- Maps/Places API
- Web Scraping
  - Menus
- JSON
- MSU Campus Events
- iCal File
- TweetPy

Back End
- PostgreSQL
  - Buildings
  - Parking Lots
  - Schedules
  - Classes
  - Cafeteria Menus
- Python
- Amazon AWS
  - API Gateway

Front End
- REST API
- Android
- Apple
Home View: Nearby Information

Events Nearby
- **9:00 AM**, Michael Rafferty, Ph.D. - Drug Discovery Series 2017-2018
  B448-449 Life Sciences (behind Bott Nursing Building)
- **10:00 AM**, Sense of Self: Accessible Art Symposium
  Eli and Edythe Broad Art Museum
- **10:00 AM**, TYE DYE THOM SALE
  MSU Union 1st Floor Concourse

More Events

Dining Nearby
- The Vista at Shaw
- South Pointe at Case
- Wilson Dining Hall

More Dining Halls

Dinner at The Vista at Shaw
- Green Bean and Onion Saute
Navigation Drawer

[Image of a smartphone screen showing a navigation drawer with categories such as Home, Student, Places, Social, Contact, and Personalization.]
Buildings View

- Abrams Planetarium
- Angell Univ Services
- Anthony Hall
- Auditorium
- Baker Hall
- Beaumont Tower
- Akers Hall
- Brody Hall
- Case Hall
- Holden Hall
- Holmes Hall
- Landon Hall
- Owen Hall
- Shaw Hall
- Snyder Hall
- Wilson Hall
- Abrams Planetarium
- Angell Univ Services
- Anthony Hall
- Auditorium
Events View

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  - Michael Rafferty, Ph.D. - Drug Discovery Series 2017-2018
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  - Tye Dye Thom Sale
  - MSU Union 1st Floor Concourse

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  - Sense of Self: Accessible Art Symposium
  - Eli and Edythe Broad Art Museum

- **12:00 PM**
  - Alumni Art and RCAHfacts
  - Snyder Hall, LookOut! Art Gallery

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- **12:15 PM**
  - Our Daily Work/ Our Daily Lives - Brown Bag
  - MSU Museum Auditorium

- **12:40 PM**
  - Analytical Seminar
  - Chemistry

- **4:00 PM**
  - Pediatric Interest Group Holiday Nights Movie Marathon
  - Novi, Michigan

- **5:00 PM**
  - Exceptions: Accessible Art Exhibition
  - Eli and Edythe Broad Art Museum

- **8:00 PM**
  - THE Misanthrope
  - Arena Theatre
Dining Hall Menu View

**Sticks/Noodles**
- Orange Ginger Sauce (Wheat/Gluten, Soy)
- Scallion Pancakes (Wheat/Gluten)
- Vegetable Stir Fry (Soy)

**Tandoori**
- Mushrooms, Peppers and Zucchini
- Sesame Brown Rice (Sesame)
- Teriyaki Broccoli and Tofu with Cashews (Wheat/Gluten, Soy, Tree Nuts, Peanuts)

**The Pit**

**Creamery**
- Brownie (Wheat/Gluten, Soy, Eggs)
- Cheesecake (Wheat/Gluten, Soy, Eggs, Milk, Alcohol)
- Irish Mist Torte (Wheat/Gluten, Soy, Eggs, Milk, Alcohol)
- Jumbo Football Cookie (Wheat/Gluten, Soy, Eggs, Milk, Alcohol)
- Pumpkin Layer Cake (Wheat/Gluten, Eggs, Milk, Alcohol)
- Tres Leche Cake (Wheat/Gluten, Soy, Eggs, Milk, Alcohol)

**Platform**
- Alfredo Sauce (Wheat/Gluten, Milk, Alcohol)
- Bow Tie Pasta (Wheat/Gluten, Eggs)
- Cheese Stuffed Breadsticks (Wheat/Gluten, Soy, Milk)
- Chick’n Bows
Social View

Spartan Football @MSU_Football 49m
A new chapter is written tomorrow at noon on Fox @CFBONFOX #TheBestStartHere #BeatOSU #GoGreen
https://t.co/mNwVuCLeB

UAB @UABNews 2h
It was a special day at #UAB honoring our #veterans. 🇺🇸 #VeteransDay2017 https://t.co/coz3uAG25

UAB @UABNews 3h
#UAB breaks ground on new #ROTC training facility. https://t.co/ROUuRDEWhkB https://t.co/ROUuRDEWhk8

MSU News @MSUNews 4h
@michiganstateau student #veteran Scott Askew was selected as one of 100 students in the U.S. to attend the Student... https://t.co/0t734jBCB6

MSU @michiganstateau 4h
RT @MSUComArtSci: #ComArtSci's Mandy Hampton Wray has found a way to mix science with helping others by studying #stuttering - https://t.co...n

Spartan Football @MSU_Football 5h
A Spartan's greatest strength is the warrior standing next to him. https://t.co/wZbcPNNJ5

MSU News @MSUNews 5h
The Spartan Marching Band's #Africa halftime show, which was originally planned for Nov. 4, has been rescheduled to... https://t.co/TW3XbcvJ3V

Spartan Football @MSU_Football 5h
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@michiganstateau student #veteran Scott Askew was selected as one of 100 students in the U.S. to attend the Student... https://t.co/0t734jBCB6

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Grades View

Term Summary
- Term GPA: 3.29
- Term Credits: 14.0

Cumulative Summary
- Cumulative GPA: 3.43
- Cumulative Credits: 28.0

MMG 141
- Introductory Human Genetics
  - Credits: 3.0
  - Grade: 4.0
  - Repeat: No
  - Honors: No

CSE 260
- Discrete Structures in Computer Science
  - Credits: 3.0
  - Grade: 2.0
  - Repeat: No
  - Honors: No

CSE 232
- Introduction to Programming II
  - Credits: 4.0
  - Grade: 3.5
  - Repeat: No
  - Honors: Yes

PHY 183
- Physics for Scientists & Engineers
  - Credits: 4.0
  - Grade: 3.5
  - Repeat: No
  - Honors: No
Schedule View

Schedule

Tue, Nov 14

02:00 PM to 04:20 PM
Translation of Programming Languages
Nayana Kodur
Anthony Hall
Room 1279

12:40 PM to 02:00 PM
Design Thinking
Nayana Kodur
Berkey Hall
Room 119A

10:20 AM to 11:40 AM
Product Innovation/Management
Nayana Kodur
Hubbard Hall
Room 129

Thursday, Nov. 16

MKT 410: Product Innovation/Management
10:20 AM-11:40 AM
Product Innovation/Management
Hubbard Hall

STA 303: Design Thinking
12:40 PM-2:00 PM
Design Thinking
Berkey Hall

CSE 450: Translation of Programming Languages
3:00 PM-4:20 PM
Translation of Programming Languages
Anthony Hall
What’s left to do?

• Remaining design parity between Android and iOS
• Building and parking lot hours
• Clean up events in back-end
• Enhance functionality for existing features
• Clean up code
Questions?