

MICHIGAN STATE  

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UNIVERSITY

02/10:

# Design Day Booklet Production Process

## The Capstone Experience

Dr. Wayne Dyksen

James Mariani

Brenden Hein

Luke Sperling

Department of Computer Science and Engineering

Michigan State University

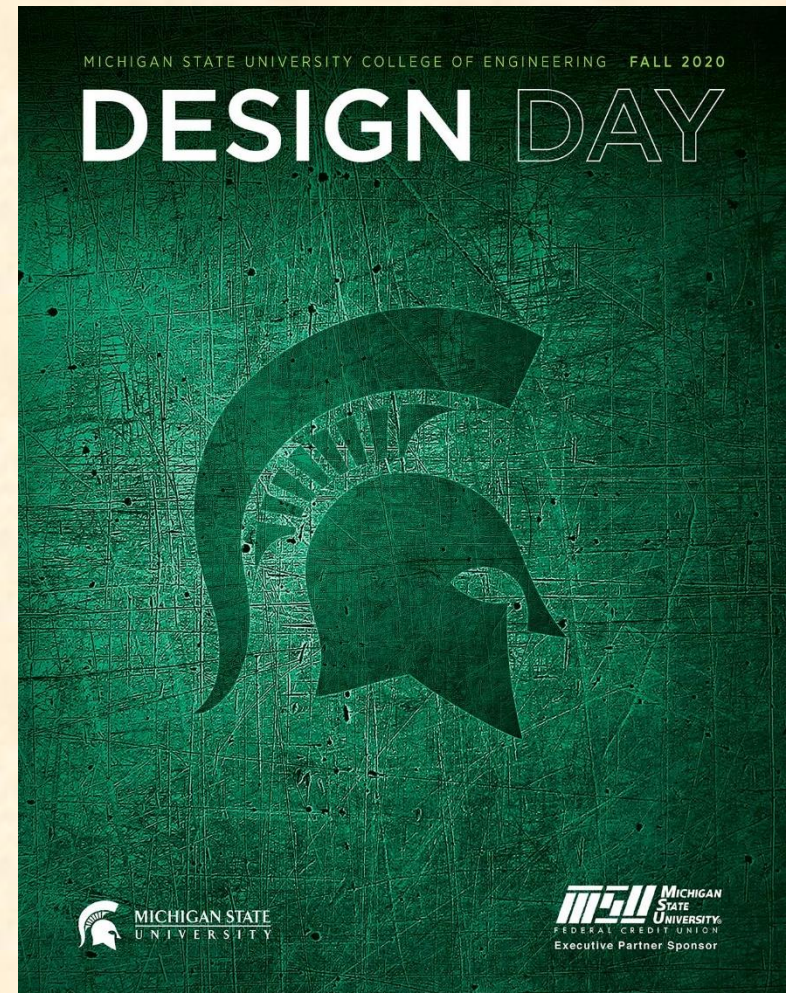
Spring 2022



*From Students...  
...to Professionals*

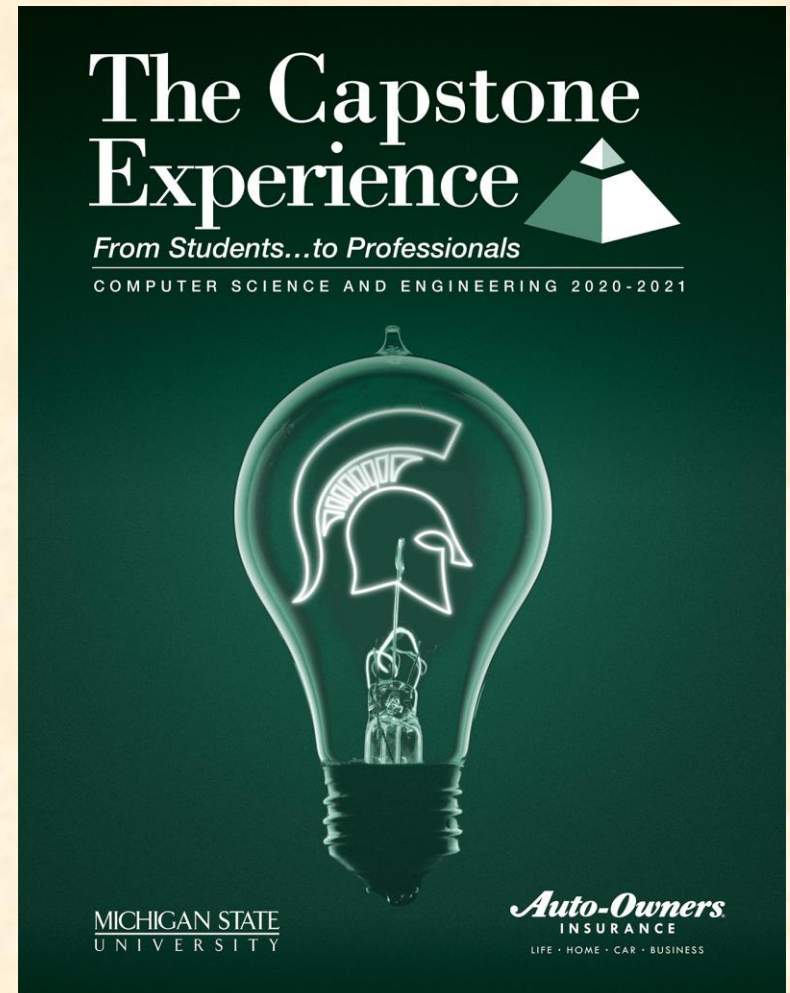
# Design Day Booklet

- Professional Publication
  - Corporate Relations
  - Alumni Relations
  - Recruiting
  - Keepsake for You
- Contents
  - Schedule of Events
  - Project Descriptions



# The Capstone Experience

- Professional Publication
  - Corporate Relations
  - Alumni Relations
  - Recruiting
- Contents
  - Capstone Projects
  - Academic Year



# Team Project Page

- Template Distributed by Dr. D.
  - Sponsor's "Official" Name
  - Sponsor Logo
  - Project Title
  - MSU Team Photo
  - MSU Team Members' Names
  - Corporate Sponsors' Names
  - Headers and Footers
  - Posted On [Downloads](#) Page
- Template Completed by Team
  - Project Description
  - Artwork
  - Use Microsoft Windows Office 365 Version of Word.

Computer Science and Engineering

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## Volkswagen Group of America VW Car-Net Electric Vehicle Route Planner

Volkswagen Group of America is the North American operation headquarters and subsidiary of the Volkswagen Group, one of the world's leading automobile manufacturers. They are comprised of 8,000 employees in the United States and sell their vehicles through a 1,000-strong dealer network.

Electric vehicles are one of the latest innovations in the automobile industry. Volkswagen, who just released their first electric vehicle, the ID4, want a way to show potential customers the benefits of electric vehicles compared to gas powered vehicles as well as address and correct some of the common misconceptions many people have about electric vehicles.

Our VW Car-Net Electric Vehicle Route Planner application is displayed in Volkswagen dealerships and educates potential car buyers about the benefits of buying an electric vehicle.

A major concern many buyers have about electric vehicles is the car's range and charging options available on the road. Our application generates driving routes for gas vehicles and electric vehicles that stop at charging stations. Buyers can compare these various routes with respect to route length, route path, fuel costs and carbon emissions.

Our application also allows for extensive customizability including sliders to adjust starting battery charge, climate control, temperature and weather conditions to account for the effects these factors have on battery consumption.

Our Electric Vehicle Route Planner helps assuage the fears of potential electric vehicle buyers by showing them that their daily routine will have minimal disruptions, and significant benefits if they switch to an electric vehicle.

Our Electric Vehicle Route Planner is developed as an Android application that utilizes API calls to handle route altering attributes and route generation. Our application is written in Kotlin.



Michigan State University Team Members (left to right)	Volkswagen Project Sponsors
<b>Joey Kelly</b> Grosse Ile, Michigan	<b>Shelly Desmet</b> Auburn Hills, Michigan
<b>Andrew Smigietki</b> Ann Arbor, Michigan	<b>Igor Eftremov</b> Auburn Hills, Michigan
<b>Zosha Korzecke</b> East Lansing, Michigan	<b>Frank Weith</b> Auburn Hills, Michigan
<b>Michael Lin</b> Rochester Hills, Michigan	
<b>Erich Halrston</b> East Lansing, Michigan	

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# Team's Job

- Read instructions carefully.
- Check everything.
- Use Microsoft Windows Office 365 version of Word.
- Make a checklist.
- Write the project description.
- Read the instructions carefully.
- Provide the artwork.
- Read the instructions carefully.
- Update the project description and artwork.
- Make a checklist.
- Check everything 100 times.
- Read the instructions carefully.
- Make a checklist. ← Key



# Project Description

[1 of 3]

- Read the instructions carefully. ← Have I mentioned this yet?
- Newspaper / Magazine Style
- Target Audience == General Public
- Do NOT Start...
  - “Our project is...”
  - “Our sponsor asked us to...”
  - “Our project aims to...”
- Use present tense throughout.
- Write as though your project is complete.
  - It works.
  - Your sponsor is using it.
- Fill the entire textbox, no less, no more.
- Read Past Examples
  - [The Capstone Experience Booklet](#)
  - Previous Design Day Booklets ([Design Day > Booklet](#))
  - [MSU Men’s Basketball](#)
- Make a Checklist ← Have I mentioned this yet?



# Project Description

[2 of 3]

- Beginning
  - Sponsor Overview
  - 2 to 3 Lines
- Middle
  - The Problem & Your Solution
  - Magazine Style
  - Understandable by Non-Technical Person
- End
  - Technical Jargon
  - 2 to 3 Lines



# Project Description

[3 of 3]

Volkswagen Group of America is the North American operation headquarters and subsidiary of the Volkswagen Group, one of the world's leading automobile manufacturers. They are comprised of 8,000 employees in the United States and sell their vehicles through a 1,000-strong dealer network.

Electric vehicles are one of the latest innovations in the automobile industry. Volkswagen, who just released their first electric vehicle, the ID.4, want a way to show potential customers the benefits of electric vehicles compared to gas powered vehicles as well as address and correct some of the common misconceptions many people have about electric vehicles.

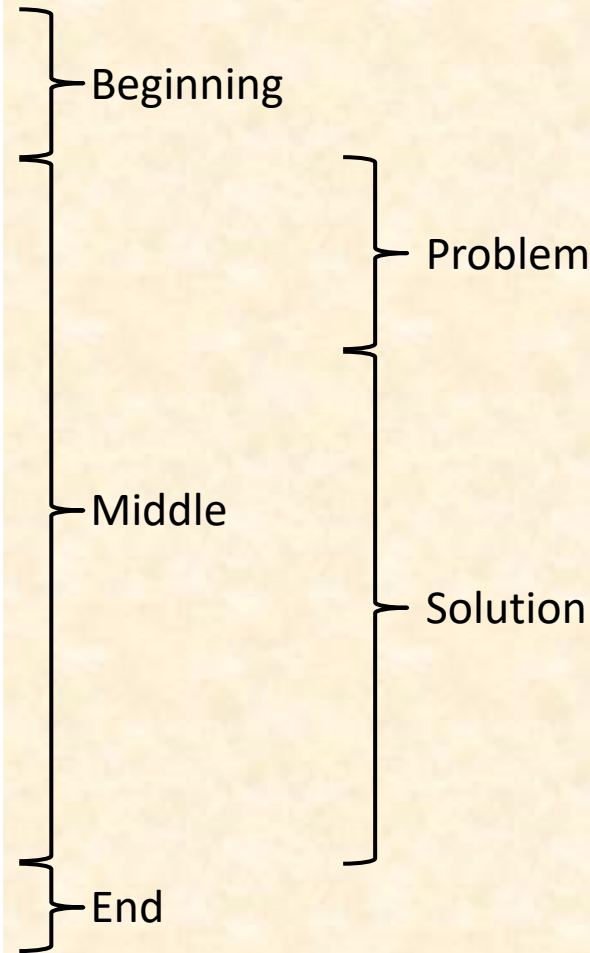
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A major concern many buyers have about electric vehicles is the car's range and charging options available on the road. Our application generates driving routes for gas vehicles and electric vehicles that stop at charging stations. Buyers can compare these various routes with respect to route length, route path, fuel costs and carbon emissions.

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## Example Project Description: Spartan Basketball Player Timer

Michigan State University's Men's Basketball is elite, one of the top programs in the NCAA.

NCAA Division I basketball is very competitive. Although it may not be apparent to the casual observer, every detail of each game is carefully planned and scripted.

One aspect of a game plan is that of playing times. For each player, the coaches determine target times for how long he can play at a stretch, how long he needs to rest before playing again, and the total amount of time he should play in a game.

Developed with Coach Tom Izzo, our Spartan Basketball Player Timer is used by the basketball staff on the bench during the game.

When a player enters the game, his playing time is displayed with a solid green background. When his target playing time goes under two minutes, it is displayed in yellow. When the time goes below zero, it is displayed in red.

The color coding of times provides visual cues that can be seen by the coaches at a distance. If there are many yellow or red boxes, the coaches begin to plan substitutions.

A game summary for all the players can be displayed at any time whether the game clock is running or stopped.

Our software runs on a Microsoft Windows Tablet PC about the size of a traditional clipboard only slightly thicker. With no mouse or keyboard, all input is done with a pen.

Spartan Basketball Player Time is written in Visual Basic. The underlying database is Microsoft Access.



# Artwork

[1 of 3]

- Read the instructions carefully.
- Take 2 to 3 screenshot(s) of working software.
  - Use eye-catching examples.
  - Avoid boring or trivial things.
    - Splash Screens
    - Login Screens
- Fill up the entire artwork space. Whitespace is bad!
- Overlap artwork if necessary.
- Include “framing” for web and mobile apps.
  - Browser with Window Frame
  - iPhone, iPad
  - Android Phone or Tablet
  - NOT Laptop or Desktop
  - See <https://mockuphone.com>.



# Artwork

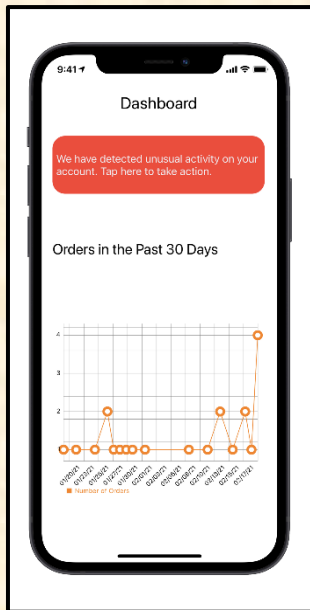
[2 of 3]

- Read the instructions carefully. ← Have I mentioned this yet?
- Add borders if necessary.
  - If Blends Into White Background
  - Create a single PNG for each piece of artwork using PowerPoint.
  - Read Instructions
- Capture and provide very high-resolution images.
- Preserve aspect ratios.
- Crop to eliminate transparent “borders.”
- Eliminate all surrounding “whitespace.”
- Use paint.net.
- See examples.
  - The Capstone Experience Booklets
  - Design Day Artwork Feedback, Fall 2021
  - Previous Design Day Booklets (Design Day > Booklet)
  - MSU Men’s Basketball
- Make a Checklist ← Have I mentioned this yet?

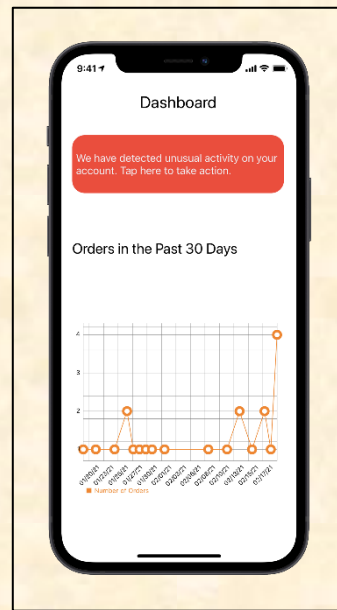


# Artwork

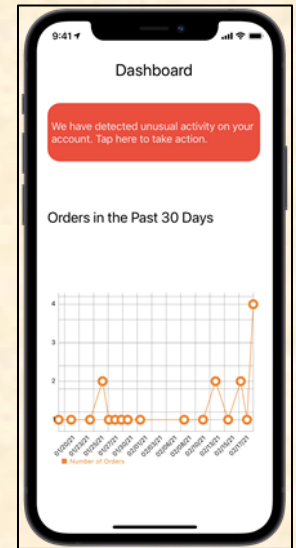
[3 of 3]



White  
Whitespace



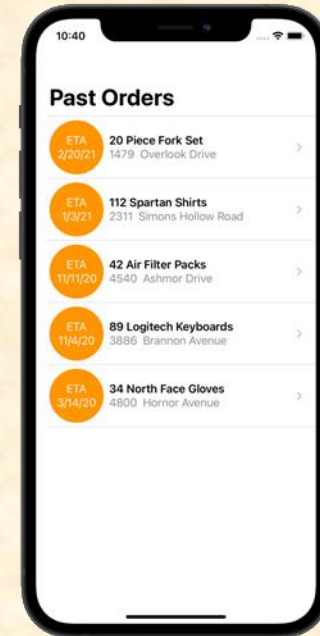
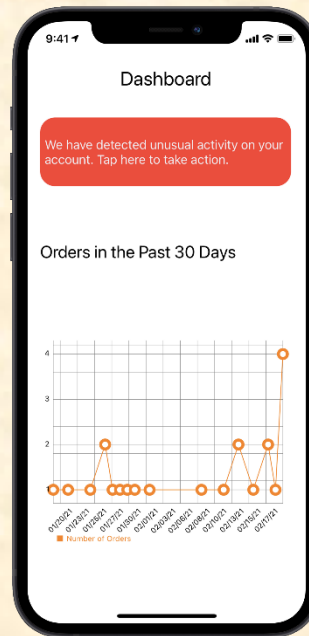
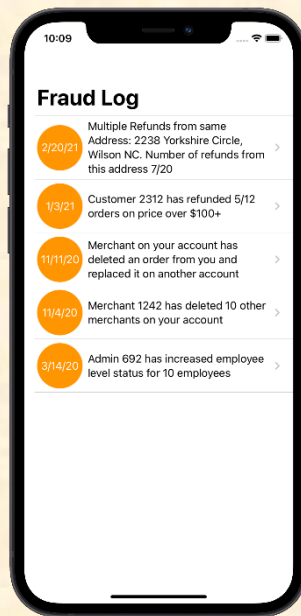
Too Much  
Transparent  
Whitespace



Nicely  
Cropped  
Transparent  
Whitespace

# Artwork Whitespace Issues

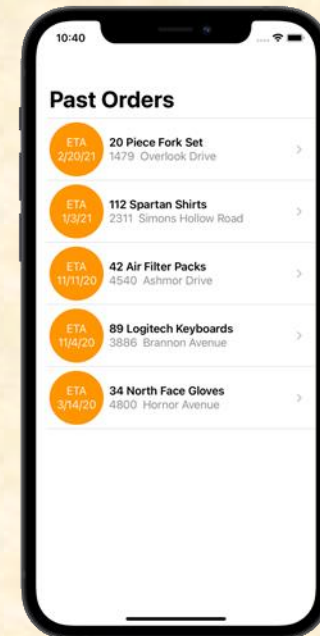
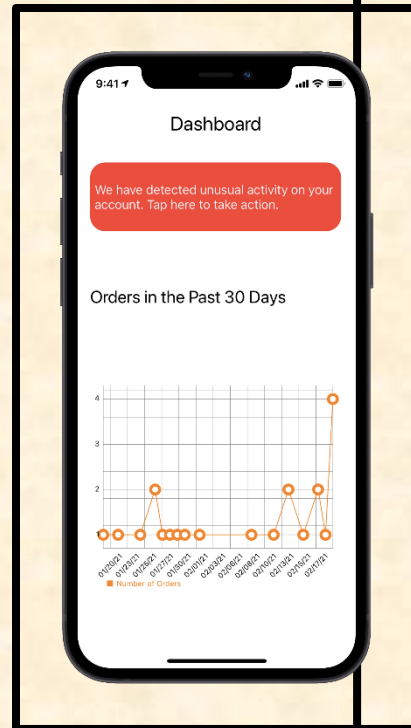
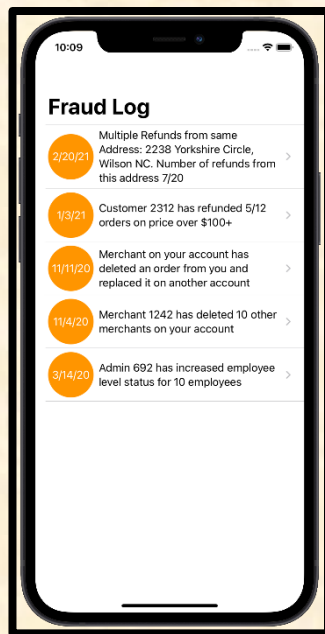
[1 of 3]



Look Identical

# Artwork Whitespace Issues

[2 of 3]

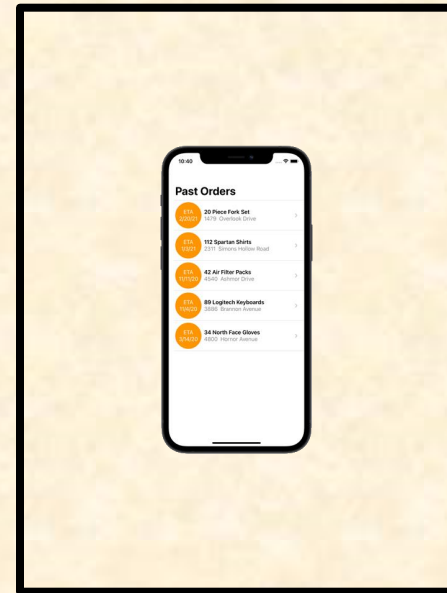
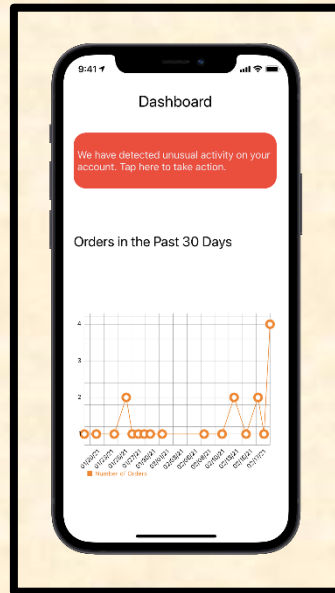
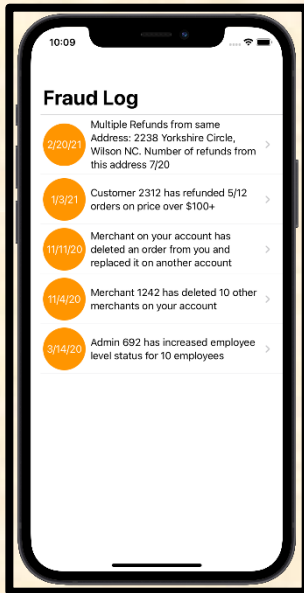


Border Shows Transparent Whitespace



# Artwork Whitespace Issues

[3 of 3]



Select All. Rescale to 3" Height.

Download Design Day Artwork Whitespace Tester

# Artwork Example

[1 of 5]

CSE 498 / 7:30 a.m. Engineering Building, Room 3405 | Third Floor

## Amazon AVAST: Amazon Video And Shopping Technology

Founded in 1994 as an online bookstore, Amazon is the largest online retailer in the world. In addition to retail, Amazon offers services in cloud infrastructure through Amazon Web Services, and audio and video streaming through Amazon Music and Prime Video.

According to a recent study, 80% of internet usage will be people watching online videos by the year 2020. This presents a significant opportunity for all online retailers.

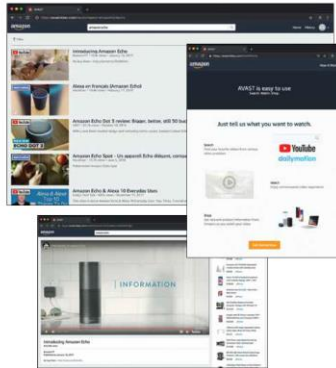
Our AVAST (Amazon Video And Shopping Technology) platform leverages the growth in online video streaming by providing users with an easy way to purchase products of interest that they see in the videos they are watching.

Using AVAST, an Amazon customer can stream videos from content providers such as YouTube and their favorite TV networks.

While a user is watching a video, AVAST analyzes it to find items of potential interest to the viewer. As the video plays, related Amazon products are displayed alongside the video as illustrated in the examples at the right.

For each item, AVAST displays a product description, pictures and ratings. A viewer can easily purchase any product simply by clicking on the conveniently provided link to Amazon.

The frontend of AVAST (Amazon Video And Shopping Technology) is built using Angular 6, while the backend is implemented using PHP Laravel. In addition, several Amazon Web Services are used including Rekognition to analyze videos, and EC2 to host the AVAST website.



### Michigan State University Team Members (left to right)

**Linshawn Fang**  
Wenzhou, Zhejiang, China

**Ben Nwachukwu**  
Oak Park, Michigan

**Patrick McCormick**  
Northville, Michigan

**Ian McGregor**  
Clarkston, Michigan

**Han Wang**  
Novi, Michigan

### Amazon Project Sponsors

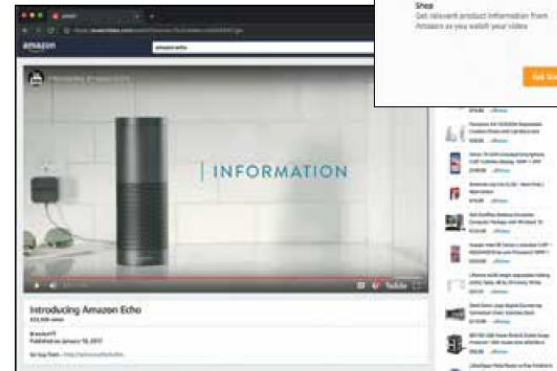
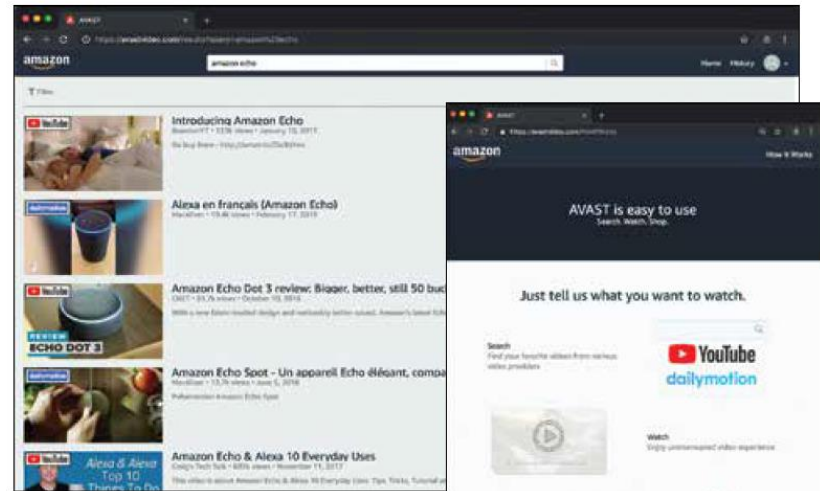
**Garret Gaw**  
Detroit, Michigan

**Derek Gebhard**  
Detroit, Michigan

**Kyle Koss**  
Detroit, Michigan

**Pete Pfeiffer**  
Detroit, Michigan

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# Artwork Example

[2 of 5]

Engineering Building, Room 3405 | Third Floor 7:43 a.m. / CSE 498

## Aptiv Autonomous Vehicle Fleet Connectivity App

Aptiv is a global technology company that is transforming mobility with its portfolio of safe, green, and connected solutions for its customers.

As a leader in autonomous vehicle development, Aptiv maintains an extensive test fleet of autonomous vehicles, which must be managed and monitored.

Our Autonomous Vehicle Fleet Connectivity App provides connectivity to Aptiv's autonomous test fleet, which operates across the US, Europe and Asia, and includes various vehicles with software for every level of autonomy.

Among other features, our system provides scheduling of test vehicles. After logging in, Aptiv engineers see a calendar view of the entire fleet from which they can select a particular day to obtain a list of available vehicles.

Once a vehicle is selected, our app displays a complete set of information about it including its past usage, reservations and diagnostic information.

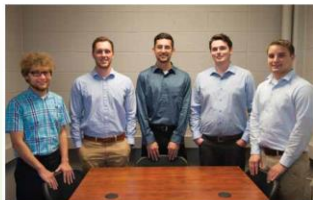
In addition to checking availability of vehicles based on dates, our app provides for advanced search to narrow the scope based on things like type of vehicle, location of vehicle and level of autonomy.

The "My Reservations" tab shows a user's upcoming vehicle reservations as well as enabling them to make and cancel reservations.

Our Autonomous Vehicle Fleet Connectivity App is written using the Angular web framework, obtaining information from Aptiv's native servers. Communications are implemented using Microsoft Azure Services.



• APTIV •



### Michigan State University Team Members (left to right)

**Alex Patton**  
Howell, Michigan

**Drew Glapa**  
Dexter, Michigan

**Emilio Castillo**  
Lansing, Michigan

**Klint Kaercher**  
Lansing, Michigan

**Chad Krause**  
Novi, Michigan

### Aptiv Project Sponsors

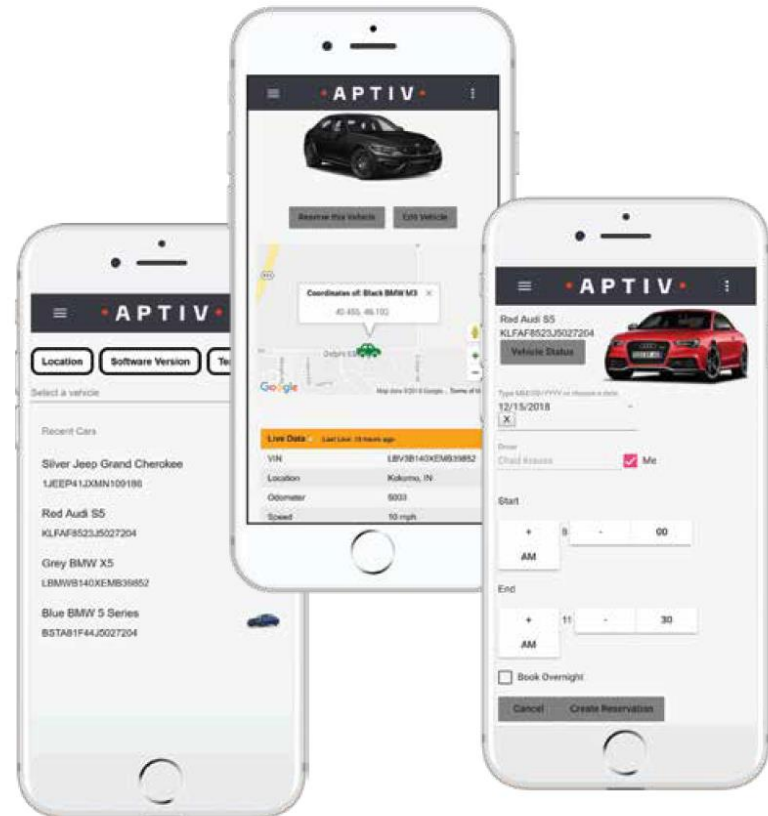
**Chris Lussenhop**  
Troy, Michigan

**Joe Lyon**  
Troy, Michigan

**Ross Maguire**  
Troy, Michigan

**Jim Quisenberry**  
Troy, Michigan

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• APTIV •



# Artwork Example

[3 of 5]

CSE 498 / 7:56 a.m. Engineering Building, Room 3405 | Third Floor

## Auto-Owners Insurance Jeffrey: Virtual Insurance Claim Advisor

Auto-Owners Insurance is a Fortune 500 company that provides automotive, home, life and commercial insurance. Headquartered in Lansing, Michigan, Auto-Owners is represented by over 44,000 licensed insurance agents across 26 states, and provides insurance to nearly 3 million policyholders.

Every day, hundreds of insurance claims are filed with Auto-Owners through its independent agents. This process can be tedious for both policyholders and agents.

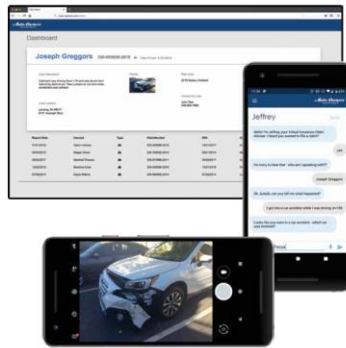
Our Jeffrey Virtual Insurance Claim Advisor system is a virtual claim assistant that automates the entire claim reporting process. Our mobile app, shown at the right, enables both agents and policyholders to file a claim easily and efficiently.

Jeffrey engages in a dialogue with policyholders and agents to gather information required to file their claim through natural conversation. If necessary, Jeffrey prompts users to take photos, record videos or attach documents relevant to a claim.

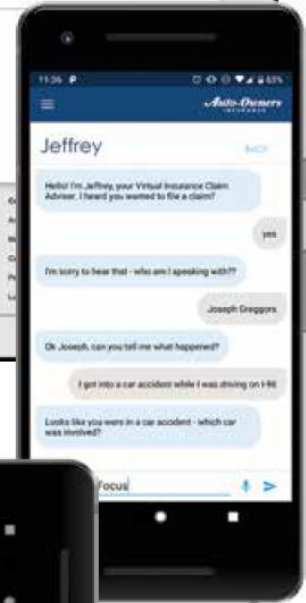
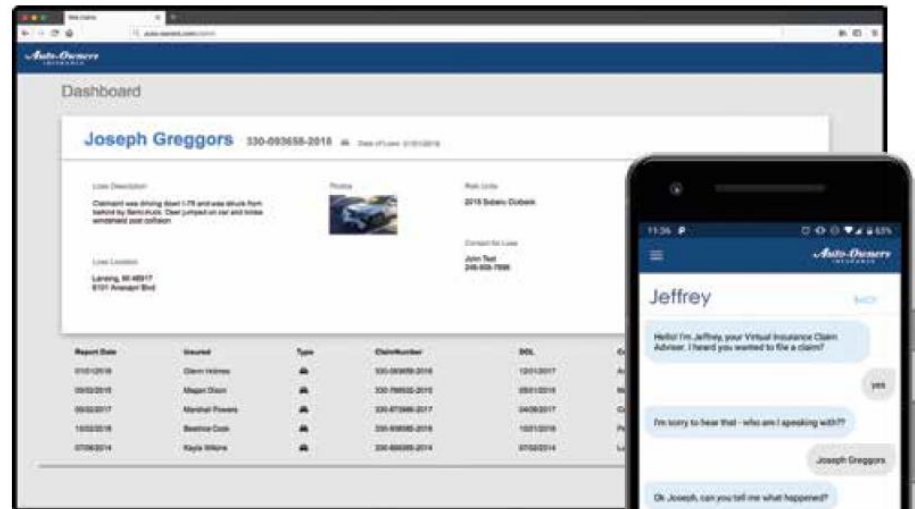
After completing a dialogue with a user, Jeffrey automatically gathers the appropriate claim information and submits it to Auto-Owners.

Our companion web app enables agents and Auto-Owners associates to find and review claim information that is submitted through the mobile application.

Our Jeffrey Virtual Insurance Claim Advisor system features natural language processing, which is implemented using Google's Dialogflow. A custom REST API, written in Kotlin, handles interactions between the applications and our MySQL database. Our web application is built using the React JavaScript framework.



**Auto-Owners**  
INSURANCE  
LIFE • HOME • CAR • BUSINESS



### Michigan State University Team Members (left to right)

**Alex Klingel**  
Marshall, Michigan

**Connor Stabnick**  
Rochester, Michigan

**Nabaha Biviji**  
Novi, Michigan

**Michael Dickmann**  
Novi, Michigan

### Auto-Owners Project Sponsors

**Ross Hacker**  
Lansing, Michigan

**Scott Lake**  
Lansing, Michigan

**Jim Schumacher**  
Lansing, Michigan

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# Artwork Example

[4 of 5]

Engineering Building, Room 3405 | Third Floor 9:53 a.m. / CSE 498

## Proofpoint Improved Detonation of Evasive Malware

Headquartered in Sunnyvale, California, Proofpoint provides cybersecurity to many organizations, including Fortune 100 companies and educational institutions such as Michigan State University.

Analyzing malware is challenging. Viruses, spyware, ransomware and other malicious programs come in many complex forms. To protect its customers, Proofpoint uses tools called sandboxes, which are restricted computing environments where potentially harmful malware can be tested and analyzed safely.

Unfortunately, a new class of malware called "evasive malware" is rapidly emerging, thereby presenting a new, more dangerous class of cybersecurity threats.

Evasive malware has the ability to detect the presence of the sandbox environment. After doing so, it changes what it does, thereby evading analysis.

Our Improved Detonation of Evasive Malware system modifies evasive malware to block its ability to detect the sandbox environment, which causes it to execute. When the evasive malware does execute, its behavior is analyzed to determine precisely what it does so that Proofpoint can design countermeasures to protect against it.

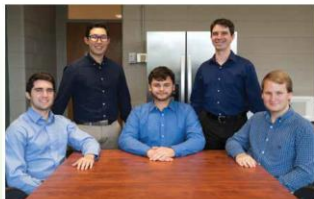
Our web app, shown at the right, displays the results of processed malware. Users can check the status of the malware samples being tested as well as see the top evasive techniques being used. Both harmless and harmful evasive results are presented.

Our Improved Detonation of Evasive Malware system is implemented in Python, using the Cuckoo sandboxing framework and Suricata network monitor. Our web app is implemented using Python and Flask with the interface framed in Bootstrap and jQuery.

Program	Description	Score
...	...	...

ID	Name	State	Security Plan ID	Impact
...	...	...	...	...

proofpoint™



**Michigan State University**  
Team Members (left to right)

**Jack Mansueti**  
Beverly Hills, Michigan

**Tae Park**  
Canton, Michigan

**Sean Joseph**  
Grand Ledge, Michigan

**Ryan Gallant**  
Midland, Michigan

**Ian Murray**  
Midland, Michigan

**Proofpoint**  
Project Sponsors

**Leliani Alejo**  
Sunnyvale, California

**Kristi Gee**  
Sunnyvale, California

**Brad Woodberg**  
Troy, Michigan

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ID	Name	State
...	...	...

ID	Name	Modified Resubmissions	State	Security Plan ID	Impact
...	...	...	...	...	...

proofpoint™

# Artwork Example

[5 of 5]

## The Capstone Experience

### MSU Federal Credit Union Banking with Amazon's Alexa and Apple's Siri

Founded in 1937, Michigan State University Federal Credit Union offers financial services to Michigan State University and Oakland University faculty, staff, students, alumni association members and their families. With 230,000 members and over \$3.3 billion in assets, MSUFCU is the largest university-based credit union in the world.

MSUFCU currently offers mobile banking apps on both Apple (iOS) and Google Android devices for members to access their funds and perform banking transactions at any time.

Our Banking with Amazon's Alexa and Apple's Siri systems maintain MSUFCU's technological edge by expanding their banking offerings to voice-controlled smart devices such as Amazon Alexa-enabled devices, Apple Watch and Android Wear.

Voice-controlled technologies give MSUFCU members new ways to interact with their accounts, including accessing their account balance, transferring money and obtaining information about recent transactions. Members can request other information about MSUFCU such as branch hours, current loan rates and the location of the nearest ATM or Branch.

Our companion administrative web portal enables MSUFCU staff to manage the available information and services offered by these voice technologies. Frequently asked questions can be added to the apps in minutes to improve the user experience.

The Alexa skill is written in Python, Apple Watch in Swift and Android Wear in Java. All three contact a MySQL database through JSON. The administrative web portal is written in PHP.



#### Michigan State University Team Members (left to right)

**Steven Jorgensen**  
Saranac, Michigan

**Kieran Hall**  
Traverse City, Michigan

**Will Rudnick**  
Chicago, Illinois

**Ethan Boyd**  
Saline, Michigan

**Qunling Ren**  
Beijing, China

#### MSUFCU Project Sponsors

**Samantha Amburgey**  
East Lansing, Michigan

**April Clobes**  
East Lansing, Michigan

**Emily Fesler**  
East Lansing, Michigan

**Collin Lochinski**  
East Lansing, Michigan

**Judy Lynch**  
East Lansing, Michigan

**Ben Maxim**  
East Lansing, Michigan

**Andy Wardell**  
East Lansing, Michigan

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# Example Spartan Basketball Player Timer

## Michigan State University Men's Basketball Spartan Basketball Player Timer

NCAA Division I basketball is very competitive. Although it may not be apparent to the casual observer, every detail of each game is carefully planned and scripted.

One aspect of a game plan is that of playing times. For each player, the coaches determine target times for how long he can play at a stretch, how long he needs to rest before playing again, and the total amount of time he should play in a game.

Developed with Coach Tom Izzo, our Spartan Basketball Player Timer is used by the basketball staff on the bench during the game.

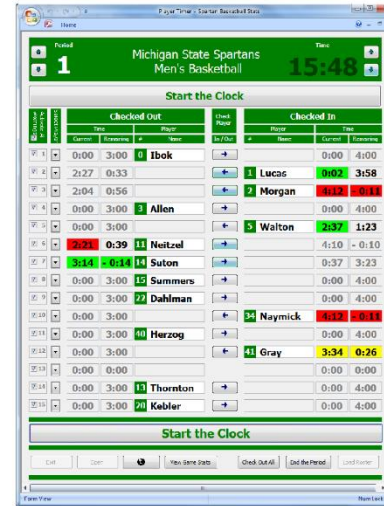
When a player enters the game, his playing time is displayed with a solid green background. When his target playing time goes under two minutes, it is displayed in yellow. When the time goes below zero, it is displayed in red.

The color coding provides visual cues that can be seen by coaches at a distance. If there are many yellow or red boxes, coaches begin to plan substitutions.

A game summary for all the players can be displayed at any time whether the game clock is running or stopped.

Our software runs on a Microsoft Windows Tablet PC about the size of a traditional clipboard only slightly thicker. With no mouse or keyboard, all input is done with a pen.

Spartan Basketball Player Timer is written in Visual Basic. The underlying database is Microsoft Access.



### Michigan State University

#### Team Members

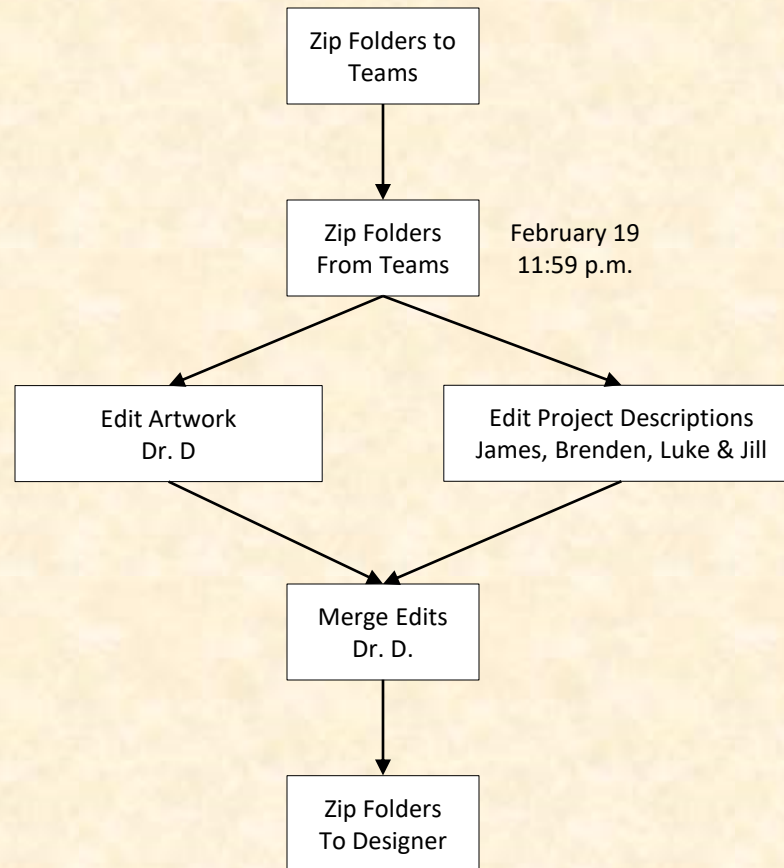
- Wayne Dyksen**  
North Haledon, New Jersey
- Wayne Dyksen**  
Grand Rapids, Michigan
- Wayne Dyksen**  
West Lafayette, Indiana
- Wayne Dyksen**  
East Lansing, Michigan

### Team Michigan State University

#### Project Sponsors

- Richard Bader**  
East Lansing, Michigan
- Jim Boylen**  
East Lansing, Michigan
- Tom Izzo**  
East Lansing, Michigan
- Mark Montgomery**  
East Lansing, Michigan
- Dwayne Stephens**  
East Lansing, Michigan

# The DD Booklet Production Process



# 1 Template From Dr. D. To Team

All of the textboxes are named for processing

Do NOT create your own textboxes.

If necessary, start over from the original downloaded template.

## United Airlines Training Scheduling and Optimization System II

Insert your project description here. Read the [Design Day Booklet Page Instructions](#) thoroughly, over and over and over and over and over.

For examples, see previous Design Day booklets, which you can find [here](#).

You must use the Microsoft Windows version of Word. Do NOT even think about using anything else.

The first two or three lines must be about your client. The following is an example.

Auto-Owners Insurance is a Fortune 500 company that provides automotive, home, life and commercial insurance to nearly 3 million policyholders in 26 states.

Do NOT use phrases like "Our clients asked us to..." or "Our project is..."

Do NOT use phrases like "Our software aims to..." or "Our software is designed to..."

Write everything in the present tense.

Do NOT write anything negative about your client like "Our client's current software is horrible; ours is better."

Read the [Design Day Booklet Page Instructions](#) thoroughly, over and over and over and over and over.

It's okay for a paragraph to have only one sentence as long as the sentence is long enough to take up at least 1.5 lines.

The last few lines (and only the last few lines) must contain technical details about your project. The following is an example.

Read the [Design Day Booklet Page Instructions](#) thoroughly, over and over and over and over and over.

The frontend of AVAST (Amazon Video And Shopping Technology) is built using Angular 6, while the backend is implemented using PHP Laravel. In addition, several Amazon Web Services are used including Rekognition to analyze videos.

- To insert your artwork, right-click on this artwork (grey rectangle with text within the textbox) and select "Change Picture..."
- Put each piece of artwork in a **separate** artwork textbox.
- Do not change the textbox's red external borders. Use them as handles to move and resize the textbox. The red borders will be made invisible later.
- Delete the artwork textboxes that you do not need.
- If you need more textboxes, you **must** copy-and-paste one of these existing artwork textboxes. Right-click on the outside red external border, select copy, and then paste.
- To layer overlapping textboxes, right-click on a textbox red border, and select "Bring to Front" or "Send to Back."

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---	---



There are four placeholders for artwork.

The text boxes have red outlines for handles.

Each textbox includes one embedded placeholder artwork, a grey png image.

To add your artwork, right click on grey image and select Change Picture.

Delete the textboxes placeholders you don't need.

Do NOT create your own textboxes for artwork.

# 2 Project Description Draft From Team To Dr. D.

Computer Science CSE498 / 8:00 a.m. - Noon Engineering Building, 1300 Hallway | First Floor

## United Airlines Training Scheduling and Optimization System II

United Airlines is the world's second largest airline company, operating 4,600 flights a day to 357 destinations. To maintain its fleet of 1,300 aircraft and ensure successful flights, it is crucial to have properly trained personnel. United's Technical Operations division has 60 instructors, who teach around 700 classes yearly to over 7,000 employees.

Our Training Scheduling and Optimization System II provides a web app to facilitate United's maintenance training schedulers to schedule instructors and students for courses across the country.

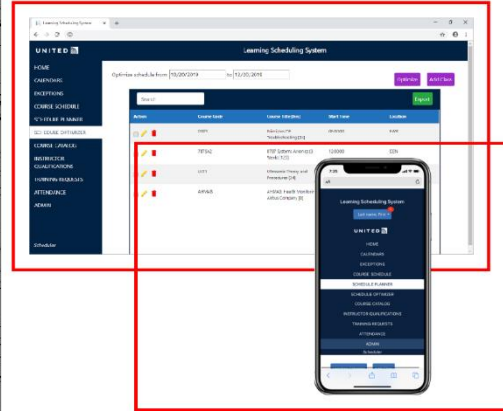
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The scheduler will be able to view calendars with published, planned, and optimized courses. They can edit classes from this view. The calendars can be sorted by instructor, location, and class. If a conflict is attempted to be scheduled, a notification will alert the scheduler.

The web app is fully functional using both web browsers and mobile browsers.

Our Training Scheduling and Optimization System II web app is built with ASP.NET Core, Angular 8, Node.js, an Entity Framework, and an Azure SQL database. The web app is hosted as an app service on Azure Cloud Platform.



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**Laura Danila**

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**Andrew Ferguson**

Livonia, Michigan

### United Airlines

#### Project Sponsors

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Chicago, Illinois

**Craig Bennett**

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**Rick Brown**

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**Lynda McDaniel**

Houston, Texas

**Tom Wilson**

Chicago, Illinois



# 2 Project Description Draft From Team To Dr. D.

Search your project description for the word "will."

Computer Science CSE498 / 8:00 a.m. - Noon Engineering Building, 1300 Hallway | First Floor

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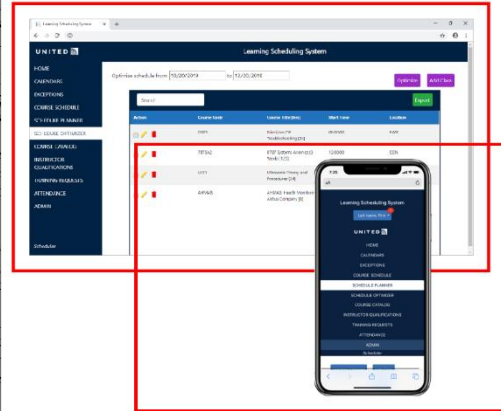
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# 3 Project Description Edits By Instructors

Computer Science CSE498 / 8:00 a.m. - Noon Engineering Building, 1300 Hallway | First Floor

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When the scheduler wants to schedule a course, they must take into account a number of factors, including: instructor availability, venue availability, instructor travel distance, and instructor qualifications.

Using our web and iOS apps, users can schedule classes manually, or through our automated schedule optimizer. Manual scheduling can be used effectively for a few classes in a short time frame. However, when dealing with a large number of classes, taking into account all relevant factors, manual scheduling is an arduous task.

Our schedule optimization feature allows a scheduler to input a given time frame, a set of classes, and a set of locations. The optimizer then recommends an optimal schedule, including instructor and classroom assignments.

The optimized schedule minimizes the distance traveled by instructors, and takes into account instructor preferences and room availabilities.

An optimized schedule saves United Airlines significant time, money, and resources.

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### Round 1 edits by James and Ryan ...

- Our Training Scheduling and Optimization System II provides a web app to facilitate United's maintenance training schedulers to schedule instructors and students for courses across the country.
- When the scheduler goes to schedule a course, the system displays available locations and instructors. The scheduler can also schedule a course from a training request inputted by instructors or supervisors.
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Houston, Texas

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# 3 Project Description Edits By Jill

## United Airlines Training Scheduling and Optimization System II

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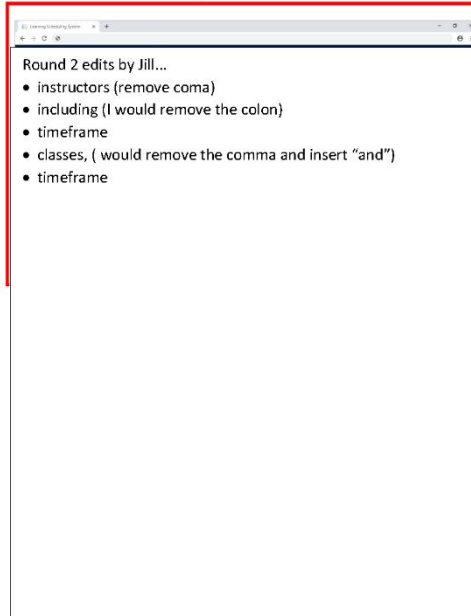
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Round 2 edits by Jill...

- instructors (remove coma)
- including (I would remove the colon)
- timeframe
- classes, ( would remove the comma and insert "and")
- timeframe



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# 3 Artwork Draft From Team To Dr. D.

Computer Science CSE498 / 8:00 a.m. - Noon Engineering Building, 1300 Hallway | First Floor

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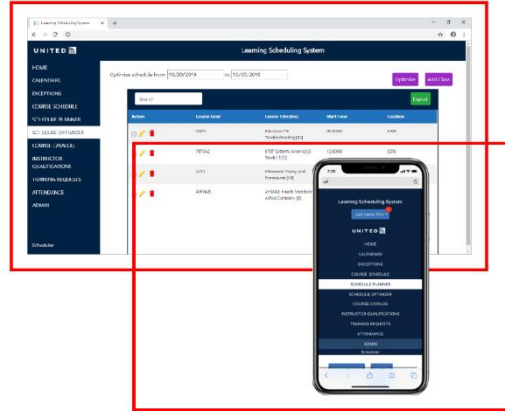
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What's wrong with this artwork?

### 3 Artwork Draft Feedback by Dr. D.



Dr. D. duplicated existing artwork to illustrate requested update.

### 3

## Artwork Update From Team To Dr. D.

Computer Science CSE498 / 8:00 a.m. - Noon Engineering Building, 1300 Hallway | First Floor

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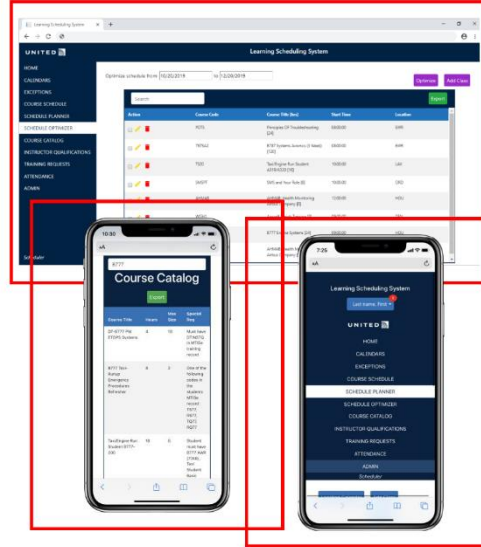
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# 4 Final Update From Team To Dr. D.

Computer Science CSE498 / 8:00 a.m. - Noon Engineering Building, 1300 Hallway | First Floor

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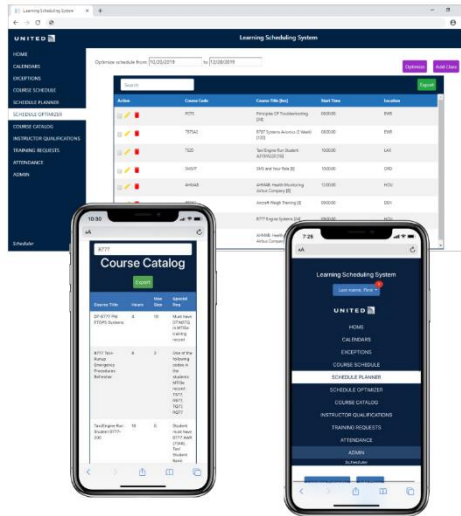
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# Final Version From Dr. D. To Designer

Computer Science CSE498 / 8:00 a.m. - Noon Engineering Building, 1300 Hallway | First Floor

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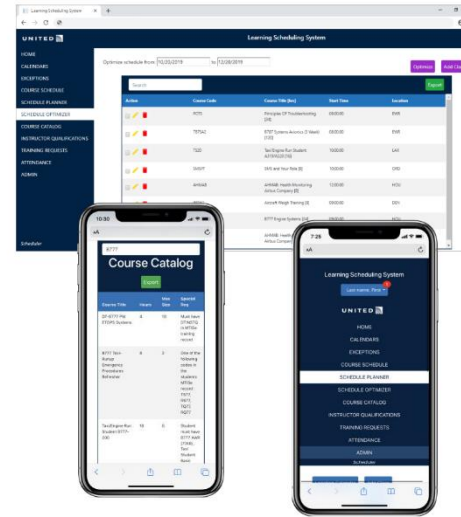
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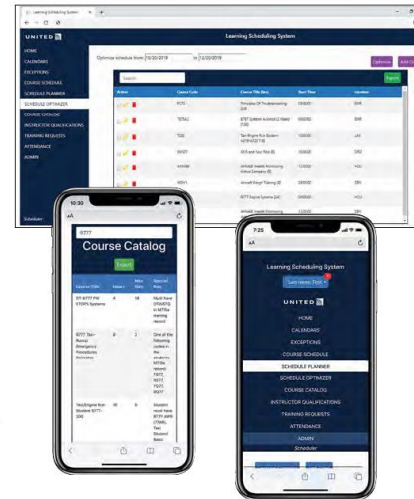
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## Design Day Production Schedule

Weekday	Date	Task	Elapsed Days
Wednesday	February 9	Dr. D. posts zipped folders with templates for downloading.	0
Thursday	February 10	Dr. D. discusses process at all-hands meeting.	1
Saturday	February 19	Teams submit zipped folders with first draft by 11:59 p.m.	10
Sunday	February 20	Dr. D. edits the artwork and creates artwork feedback.	11
Sunday	February 20	Dr. D. posts zipped folders with artwork feedback for downloading.	11
Sunday	February 20	TAs begin editing project descriptions.	11
Sunday	February 20	Teams begin updating artwork.	11
Tuesday	February 22	Dr. D. discusses artwork feedback at all-hands meeting.	13
Tuesday	February 22	TAs. discusses project descriptions at split-hands meeting.	13
Tuesday	February 22	Teams submit zipped folders with updated artwork by 11:59 p.m.	13
Wednesday	February 23	Dr. D. edits the artwork and creates artwork feedback.	14
Wednesday	February 23	Dr. D. posts zipped folders with artwork feedback for downloading.	14
Wednesday	February 23	TAs submit project description edits by 11:59 p.m.	14
Thursday	February 24	Dr. D. discusses artwork feedback at all-hands meeting.	15
Thursday	February 24	TAs. discusses project descriptions at split-hands meeting	15
Thursday	February 24	TAs and Jill meet to discuss project descriptions.	15
Thursday	February 24	Jill begins editing project descriptions.	15
Thursday	February 24	Teams submit zipped folders with updated artwork by 11:59 p.m.	15
Saturday	February 26	Jill submits project description edits by 8:00 a.m.	17
Saturday	February 26	TAs and Jill meet to discuss project descriptions.	17
Saturday	February 26	TAs begin final editing project descriptions.	17
Saturday	February 26	TAs submit project description edits by 11:59 p.m.	17
Sunday	February 27	Dr. D. posts final version of project descriptions.	18
Tuesday	March 1	Dr. D. discusses project descriptions at all-hands meeting.	20
Wednesday	March 2	Teams submit final version of project description by 11:59 p.m.	21
Thursday	March 3	Dr. D. discusses any remaining issues at all-hands meeting.	22
Friday	March 4	Dr. D. merges final artwork with final project description.	23
Saturday	March 5	Dr. D. submits zipped booklet assets to graphic designer.	24



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Jan 30	31	<b>Feb 1</b>	2	3	4 <b><u>Design Day</u></b> <b><u>Production</u></b> <b><u>Calendar</u></b>	5
6	7	8	9 1 Dr. Posts Zip Templates 2 Dr. Emails Instructions	10 0:DD Booklet Process 1 Dr D Discusses Process at All-Hands	11	12
13	14	15 0:Creating & Giving Presentations	16	17 0:Resume Writing & Interviewing	18	19 1 Teams Submit Zip Files
20 1. Dr D Edits Art 2. Dr Posts Art 3. INs Edit Proj Desc 4. Teams Update Art	21	22 0:Alpha Presentations 1, Dr D Discusses Art 2. INs Discuss Proj Desc 3. Teams Submit Art	23 1. Dr D Edits Art 2. Dr Posts Art 3. INs & JB Discuss PDS	24 0:Alpha Presentations 1. Dr D Discusses Art 2. INs Discuss Proj Desc 3. INs & JB Discuss PDS 4. JB Edits Proj Desc 5. Teams Submit Artwork	25	26 1. JB Submits PDS by 8:00am 2. INs & JB Discuss PDS 3. INs Edit Proj Desc
27 1 Dr D Posts Final PDS	28	<b>Mar 1</b> 0:Alpha Presentations 1 Dr D Discusses Final PDS	2 1 Teams Submit Final Zip Files	3 0:Alpha Presentations 1 Dr D Discusses Process at All-Hands	4 1. Dr D Merges Art & PDS	5 1 Dr D Submits Assets to Designer

# Zipped Assets Folder

- Link On Downloads Page
- Customized Per Team
- Contents
  - Project Page Template .docx
  - Four Template Artwork Files .png
- Do not change filenames.
- Example
  - team-amazon-design-day-booklet-page.zip
  - team-amazon-design-day-booklet-page.docx
  - team-amazon-artwork-1.png
  - team-amazon-artwork-2.png
  - team-amazon-artwork-3.png
  - team-amazon-artwork-4.png



# Submission

- READ Submission Instructions Carefully
- Zipped Assets Folder
  - Folder Name: team-urban-science-design-day-booklet-page
  - Contents
    - team-urban-science-design-day-booklet-page.docx
    - team-urban-science-artwork-1.png (Very High Resolution)
    - team-urban-science-artwork-2.png (Very High Resolution)
    - team-urban-science-artwork-3.png (Very High Resolution)
  - Delete unused placeholder artwork files.
  - Zip Filename: team-urban-science-design-day-booklet-page.zip
- Upload to Microsoft Teams
  - General Channel File Space
  - Folder Named design-day-booklet-team-zip-files
  - Team's Private Channel File Space
  - Due 11:59 p.m., Saturday, February 19. ← **Next Saturday**



# Design Day Grade

- 5% of Final Grade
- Two Factors
  - Design Day Booklet Team Page Process
  - Design Day Performance
- Design Day Booklet Process Deductions Including But Not Limited To...
  - Project Description Errors and Effort to Rewrite
  - Artwork Errors and Effort to Correct
  - Failure to Use Windows Version of Office 365
  - Submission Errors



# What's ahead?

[1 of 3]

- Alpha and Beta Presentation Meetings
  - Returning to 4 Meetings Format
  - $2 C * (4 T/C + 4 T/C + 4 T/C + 3 T/C) = 2C * 15 T/C = 30 T$ 
    - C == Channels
    - T == Teams
  - 15 Minutes / Presentation
    - $4 P * 15 M / P = 60 M$ , Leaves 20 M Time Buffer
    - $3 P * 15 M / P = 45 M$ , Leaves 35 M Time Buffer
  - Start Alpha Presentations 2 Day Early
    - 6 Teams Volunteered
    - $3 T + 4 T + 4 T + 4 T$
    - Slide Decks Still Due Wednesday, February 21





# What's ahead?

[2 of 3]

- Upcoming Meetings
  - ~~02/10: Design Day Booklet Production Process~~
  - 02/15: Creating and Giving Presentations
  - 02/17: Resume Writing and Interviewing
  - 02/22: Alpha Presentations ← **New**
  - 02/24: Alpha Presentations
  - 03/01: Alpha Presentations
  - 03/03: Alpha Presentations
  - 04/05: Beta Presentations



# What's ahead?

[3 of 3]

- Important Dates for Planning

- ~~02/08: Project Plan Presentations Start~~

- Start Working Towards Alpha Presentation ←Key

- 02/19: Design Day Booklet Zip File Due ←Next Saturday

- 02/22: Design Day Updated Artwork Due

- 02/22: Alpha Presentations Start ←New

- 02/23: Alpha Slide Decks Due

- 02/24: ~~Alpha Presentations Start~~

- Start Working Towards Beta Presentations ←Key

- 04/04: Beta Slide Decks Due ←New

- 04/05: Beta Presentations Start ←New

- Start Working on Project Videos ←Key

