Feast Yourself:
The Food Truck Finder

MSIS 4363
Amanda Brown
Problem Definition:

The goal of this project is to produce a functioning mobile Android application which will provide a means to track and locate food trucks in the Stillwater, OK area. Currently, there are no such applications available. Without this application, users searching for food trucks have no easy means by which they can find hours and locations for local food trucks. Instead, they are forced to use various methods such as Google and social media, which often contain outdated information or information that is difficult to find. This application seeks to solve that issue by providing users with a mobile application containing information directly obtained from food truck vendors, updated by the vendors themselves as often as needed. Also, this application will benefit truck vendors as such an application will attract customers by making the food trucks easier to find.

Identification of specific problems:

A web application for the purpose of tracking food truck locations and hours already exists, as a project from a previous class group. However, this web application is not as useful to users as a mobile application, as it requires the use of a web browser and is therefore not optimized for mobile devices. As most users will be searching for locations and hours using mobile devices, it is important that the web application be replaced with a streamlined mobile application. This mobile application will take the existing web application and provide a redesigned interface which will provide comparable functionality in a more user-friendly fashion.

Estimate of the scope of project:

- User system
  - User login
  - Create new user
  - Allow selection of favorite trucks
  - Automatically display favorites
  - Show messages from favorites
  - Allow searches for new trucks
  - Find truck locations on map

- Truck Vendor system
  - Truck vendor login
  - Create new truck vendor
  - Set truck description
  - Set truck hours
  - Update truck location
  - Update information in database
Description of development methodology:

- Agile Methodology
- Email as a main form of communication
- Meet with Thesis Director once a week to review progress
- Meet periodically with Second Reader to review progress
- UML Charts
  - Use Case Diagrams
  - Activity Diagrams
- Android development environment

Estimate of the feasibility of the project:

Financial Feasibility: The project is feasible financially as it will utilize free resources to host the database, and it will use the free Android Studio development environment.

Time Feasibility: Though this is a detailed project, the application should be able to be developed within the time allotted for the class this semester. It will include about 20-30 hours of work outside of actual class time.

Technical Feasibility: The only technical restriction is the lack of any device besides the emulator on which to test the final product, a restriction which was resolved by obtaining an Android device from the instructor. As for other technical feasibility, for an expanded version of the application, a scalable database server for business usage would be necessary. However, for this project, student access to free online cloud services, such as Microsoft Azure, is sufficient for prototyping purposes.

Introduce your team:

Amanda Brown is a senior at Oklahoma State University, pursuing two degrees in Accounting and in Management Science Information Systems: Information Assurance with a minor in Computer Science. She is a member of the Oklahoma State Honors College and is using this capstone project as her Honors Thesis in order to graduate with her College Honors Award and Honors College Degree.
Schedule/Plan: Full MS Project Schedule attached – small schedule included here

<table>
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<td>19</td>
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**Project Schedule**

*Date: Sun 5/14/17*
Feast Yourself ERD

Favorites
- favoritesID: int
- username: Varchar (20)
- truckName: Varchar (100)

User
- username: Varchar (20)
- password: Varchar (20)
- userLat: float
- userLong: float

Truck
- truckName: Varchar (100)
- truckPassword: Varchar (20)
- truckMessage: Varchar (500)
- truckHours: Varchar (20)
- truckLat: float
- truckLong: float
UML Charts and Diagrams
Feast Yourself Use Case – White Level

User

User Login

Login

Truck Login

Truck
Feast Yourself Use Case – Kite Level: User Login

User

Enter Username

Enter Password

Sign in/Register
Feast Yourself Use Case – Blue Level: User Menu
Feast Yourself Use Case – Indigo Level: Search

User

View List of Trucks

Select Truck

View Truck Information
Feast Yourself Use Case – Indigo Level: View Favorites

- View Favorites List
- Select Truck
- View Truck Information
Feast Yourself Use Case – Indigo Level: View All

User

View Map Marked with All Truck Locations
Feast Yourself Use Case – Kite Level: Truck Login

Enter Username

Enter Password

Sign In/Register
Feast Yourself Use Case – Blue Level: Truck Menu

- Update Location
- Update Hours
- Update Message/Description
Feast Yourself Use Case – Indigo Level: Update Location
Feast Yourself Use Case – Indigo Level: Update Hours

Select Open Time

Select Close Time

Submit
Feast Yourself Use Case – Indigo Level: Update Message

- View Current Message
- Edit Message
- Submit

Truck
Database Design
### Feast Yourself Database Creation Queries

*(Created using SQL Management Studio Designer)*

#### User Table:

```sql
CREATE TABLE [dbo].[User](
    [username] [varchar](20) NOT NULL CONSTRAINT [DF_User_username] DEFAULT (''),
    [password] [varchar](20) NOT NULL CONSTRAINT [DF_User_password] DEFAULT (''),
    [userLat] [float] NULL,
    [userLong] [float] NULL,
    CONSTRAINT [PK_User] PRIMARY KEY CLUSTERED
)
```

#### Truck Table:

```sql
CREATE TABLE [dbo].[Truck](
    [truckName] [varchar](100) NOT NULL CONSTRAINT [DF_Truck_truckName] DEFAULT (''),
    [truckPassword] [varchar](20) NOT NULL CONSTRAINT [DF_Truck_truckPassword] DEFAULT (''),
    [truckMessage] [varchar](500) NULL CONSTRAINT [DF_Truck_truckMessage] DEFAULT (''),
    [truckHours] [varchar](50) NULL CONSTRAINT [DF_Truck_truckHours] DEFAULT (''),
    [truckLat] [float] NULL,
    [truckLong] [float] NULL,
    CONSTRAINT [PK_Truck] PRIMARY KEY CLUSTERED
)
```

#### Favorites Table:

```sql
CREATE TABLE [dbo].[Favorites](
    [FavoritesID] [int] IDENTITY(1,1) NOT NULL,
    [username] [varchar](20) NOT NULL CONSTRAINT [DF_Favorites_username] DEFAULT (''),
    [truckName] [varchar](100) NOT NULL CONSTRAINT [DF_Favorites_truckName] DEFAULT (''),
    CONSTRAINT [PK_Favorites] PRIMARY KEY CLUSTERED
)
```

```sql
ALTER TABLE [dbo].[Favorites] WITH CHECK ADD CONSTRAINT [FK_Favorites_Truck] FOREIGN KEY([truckName]) REFERENCES [dbo].[Truck] ([truckName])
GO
```

```sql
ALTER TABLE [dbo].[Favorites] CHECK CONSTRAINT [FK_Favorites_Truck]
GO
```

```sql
ALTER TABLE [dbo].[Favorites] WITH CHECK ADD CONSTRAINT [FK_Favorites_User] FOREIGN KEY([username]) REFERENCES [dbo].[User] ([username])
GO
```

```sql
ALTER TABLE [dbo].[Favorites] CHECK CONSTRAINT [FK_Favorites_User]
GO
```
Feast Yourself Database Connection String

```java
jdbc:sqlserver://feastyourself.database.windows.net:1433;
database=FeastYourself;
user=brni@feastyourself;
password={Spring2017};
encrypt=true;
trustServerCertificate=false;
hostNameInCertificate= *.database.windows.net;
loginTimeout=30;
```
# Feast Yourself Data Dictionary

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<th>Entity Name</th>
<th>Entity Description</th>
<th>Attribute Name</th>
<th>Attribute Description</th>
<th>Data Type</th>
<th>Length</th>
<th>Primary Key</th>
<th>Foreign Key</th>
<th>Nullable</th>
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<tr>
<td>User</td>
<td>Contains user information for each user instance</td>
<td>username</td>
<td>Name of user's account</td>
<td>varchar</td>
<td>20</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>password</td>
<td>User's password, used to access the account by validating the password and username combination</td>
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<td>No</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>userLat</td>
<td>Current latitude of user's location</td>
<td>float</td>
<td></td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>userLong</td>
<td>Current longitude of user's location</td>
<td>float</td>
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<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Truck</td>
<td>Contains truck information for each truck instance</td>
<td>truckName</td>
<td>Name of the food truck</td>
<td>varchar</td>
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<td>Yes</td>
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<tr>
<td></td>
<td></td>
<td>truckPassword</td>
<td>Truck's password, used to access the account by validating the password and truck name combination</td>
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</tr>
<tr>
<td>truckMessage</td>
<td>Message written by the truck account owner. Can include any information, such as contact information or notices about specials the food truck is having.</td>
<td>varchar</td>
<td>500</td>
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<td>No</td>
<td>Yes</td>
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<td>truckHours</td>
<td>Operating hours of the food truck</td>
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<tr>
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</tr>
<tr>
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<td>No</td>
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<tr>
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<td>Name of user's account</td>
<td>varchar</td>
<td>20</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
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<tr>
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<td>Name of the food truck</td>
<td>varchar</td>
<td>100</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
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</table>
Screenshots
Welcome to Feast Yourself, the food truck finder!

Select your login type to begin.

User Login

Truck Login

Sign in

Username

Password

Sign In or Register
Search

Cafe Bella
Chophouse Taqueria
Kim's Vietnamese Cuisine
Nilima's Authentic Food of India
Okie Spuds and More
Purdy Q
Thai Loco
The Curty Shack
The Hungry Duckling truck 1

Favorites

The Hungry Duckling
Okie Spuds and More
Purdy Q
Cafe Bella
Okie Spuds and More

1:00 PM - 9:30 PM

PoTAYto, PoTAHTo. Either way, we're great!

Remove from Favorites

Sign in

Username

Password

Sign In or Register
Menu

Update Location

Update Hours

Update Message/Description

Set Location

Update the location assigned to your food truck to enable customers to find your location

Use Current Location
Set Hours

Open:
- 7:59 AM
- 9:01 PM

Close:
- 4:59 AM
- 5:00 PM
- 6:01 PM

Submit

Set Message

Edit truck message/description

This is a test truck for Stillwater, OK.

Submit Changes
Presentation
Feast Yourself: The Food Truck Finder

Amanda Brown
Oklahoma State University
MSIS Department
Thesis Director: Dr. Taha Havakhor
Second Reader: Dr. Corey Baham

Business Case: Problem Definition

► Goal: To produce a functioning mobile Android application which will provide a means to track and locate food trucks in the Stillwater, OK area

► No such applications are currently available

► Without this application, users have no easy way to find hours and locations for local food trucks
Business Case: Problem Definition

- User can use various methods such as Google and social media
- Often contain outdated information or information that is difficult to find
- This application provides users with a mobile application containing information directly obtained from food truck vendors, updated by the vendors themselves as often as needed
- The application helps truck owners attract more customers

Business Case: Specific Problems

- A web application for the purpose of tracking food truck locations and hours already exists
  - Project from a previous class group
- The web application is not as useful to users as a mobile application
  - Requires the use of a web browser and is therefore not optimized for mobile devices
Business Case: Specific Problems

- Most users will be searching for locations and hours using mobile devices
- Important that the web application be replaced with a streamlined mobile application
- Mobile application should provide a redesigned interface with comparable functionality in a more user-friendly fashion

Business Case: Scope and Functionality

User Functionality

- User login
- Create new user
- Allow selection of favorite trucks
- Display selected favorites
- Show messages from favorites
- Allow searches for new trucks
- Find all truck locations on map

Truck Functionality

- Truck vendor login
- Create new truck vendor
- Set truck description
- Set truck hours
- Update truck location
- Update information in database
Business Case: Methodology

- Agile Methodology
- Meet with Thesis Director at least once a week to review progress
- Meet periodically with Second Reader to review progress
- Develop UML Charts
  - Use Case Diagrams
  - Activity Diagram
- Android development environment

Business Case: Feasibility

- Financial Feasibility
  - Uses free resources to host the database
  - Uses the free Android Studio development environment

- Time Feasibility
  - Should be able to be developed within the time allotted for the class this semester
  - Will include 20-30 hours of work outside of actual class time
Business Case: Feasibility

- Technical Feasibility
  - Need a scalable database server for business usage
  - Student access to free online cloud services, such as Microsoft Azure, is sufficient for prototyping purposes

Business Case: Schedule

<table>
<thead>
<tr>
<th>Task ID</th>
<th>Task Name</th>
<th>Duration</th>
<th>Start</th>
<th>Finish</th>
<th>Predecessors</th>
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Database Design

Activity Diagram
Truck Information Page

- Provides all truck information
- Displays information for the truck selected from either the Search page or the Favorites page
- Opens map in Google Maps to provide directions
Demonstration

Questions?