Group 2

Dr. Mejias

ITSC 3155

Fall 2021

Project Ideas:

Team Name: *The Unicorn With a FAANG*

Murtadha Marzouq

Parker Randolph

Devon Cesca

Joshua Rizo

Murtadha Marzouq (Chosen Project)

GROUP REPO:

https://github.com/MurtadhaM/ITSC-3155/tree/main/Final%20Project

List the source of and **describe** at least 4 potential data sets:

1. **Querying the City Current news:** MCMap Date
2. **Querying the City's climate:** National Weather Service
3. **UN Travel Advisory: United** Nation's Advisory Notice
4. **Query the City's airport radar: Flight Radar**

Identify who your customer/s would be:

1. **Tourists and business professionals.**
2. **Students who are moving to a new city for education**
3. **Immigrants transitioning from one country to another**

Describe the problem that each proposed project solves and justify its need

Problem	Why it is important
Traveling while an exciting, it requires planning and preparation that are often prohibitive to middle-class America	Our product will assist your travels in focusing on sharing moments with other people why we plan, prepare, and educate you before your plane lands.
Be able to search for popular businesses in the area that you are traveling to.	Both language barriers and lack of exposure to different cultures can result in people overgoing traveling
This project was born out of a sense of need to make travel more	This project will help people get over language and cultural barriers

accessible to more people and to help people navigate the globe without feeling afraid or unprepared.	

State the product vision and how your web-based project would be useful to society

Gemini is for the person who wants to forget the hassle of traveling. Gemini is a Traveling website that allows you to receive information from trusted sources to assist with travel. Unlike Open Data, we provide a visual representation that is easy to use and the website will be open source for the public to edit and use.

Identify the major features of each of the proposed projects.:

- **Be able to search for popular businesses in the area that you are traveling to.**
- **Be able to learn essential phrases on the fly.**

Group submission

In this activity each member of the team needs to do the following tasks

1. Create a GitHub repo for your project. In that repo add a "Documentation" folder. In that folder create a document called "Project ideas" **(2 points)**
2. Include the name of all of your team members in the document to be submitted **(2 points)**
3. List the source of and **describe** at least 4 potential data sets **(8 points)**
4. Identify who your customer/s would be **(8points)**.
5. Describe the problem that each proposed project solves and justify its need (10 **points**)
6. State the product vision and how your web based project would be useful to society **(8 points)**
7. Identify the major features of each of the proposed projects. **(12 points)**

Parker Randolph :

List the source and describe at least 4 potential data sets:

1. Movie titles, region, and credits: IMDb Datasets
2. Open web database for movies, including interlinks several datasets: Index of /~oktie/linkedmdb
3. Open database for television fans: TheTVDB.com: Welcome
4. Analysis of movie reviews : Movie Review Data

Identify who your customer/s would be :

1. People who want to where popular movies are created
2. How many people like a certain type of movie genre

Describe the problem that each proposed project solves and justify its need:

Problem	**Why it is needed**
People want to be able to see where popular movies come from and see when new movies come from there.	**This project can help with this because of the different data sets.**
People want to know when new movies of a certain type are coming out.	**The project can help with this because of all the different genres of movies in the data sets**

State the product vision and how your web based project would be useful to society:

MovieDB is for the person who wants to find popular movies of a certain genre. MovieDB is a Movie website that allows you to receive information from trusted sources to see popular movies. Unlike IMDB, we provide a visual representation that is easy to use and the website will be open source for the public to edit and use.

Identify the major features of each of the proposed projects:

1. **Searching for popular movies in a certain region**
2. **Search for popular movies in a genre**

Devon Cesca
(https://github.com/DevonCesca/ITSC-3155-101-FINAL-PROJECT-GROUP-15):

List the source and describe at least 4 potential data sets:

11. National Air Quality: Status and Trends of Key Air Pollutants: National Air Quality: Status and Trends of Key Air Pollutants | US EPA
12. New York City Crime Statistics: Citywide Crime Statistics | NYC Open Data (cityofnewyork.us)
13. Car Evaluation: Safety, recalls, etc: UCI Machine Learning Repository: Car Evaluation Data Set
14. US weather history: data/us-weather-history at master · fivethirtyeight/data (github.com)

Identify who your customer(s) would be:

1. Air quality changes every day, if someone has a respiratory disease this virtualization would be helpful for those people who are more easily affected by pollution.
2. A customer might use this visualization if they lived in New York City and feel unsafe in their current environment. With this information, one person may move to a "currently safe" area, depending on how they feel within their life.
3. This visualization will allow customers to select vehicles in current categories or single out the vehicle in question. In this case, customers would feel safer in their selection of a vehicle that they would drive everyday.
4. The visualization of the US weather history will help projections in climate change during the current weather changes. With the graphs that can produce the current outcome of climate change.

Describe the problem that each proposed project solves and justify its need:

DATASET(s):

Problem	**What it solves and why is it needed**
If someone has a respiratory disease this virtualization would be helpful for those people who are more easily affected by pollution.	Assists in the person who have issues in air quality.
They live in New York City and feel unsafe in their current environment.	With this information, one person may move to a "currently safe" area, depending on how they feel within their life.

Allow customers to select vehicles in current categories or single out the vehicle in question.	In this case, customers would feel safer in their selection of a vehicle that they would drive everyday.
The visualization of the US weather history will help projections in climate change during the current weather changes.	With the graphs that can produce the current outcome of climate change.

State the product vision and how your web based project would be useful to society:

Each product vision would be different, but in this example, I will be using the vehicle database. In this case, a user would be able to select groups of cars such as SUV, sub-compact, etc or the user would be able to get information on this grouping or individual vehicles. This would be different from websites such as KBB or any sort of vehicle website. You would get a visualization of the size of the vehicle from a 3D perspective.

Identify the major features of each of the proposed projects:

National Air Quality: Status and Trends of Key Air Pollutants: National Air Quality: Status and Trends of Key Air Pollutants | US EPA

- Key maps
- Topographic maps
- Trends

New York City Crime Statistics: Citywide Crime Statistics | NYC Open Data (cityofnewyork.us)

- Heat maps
- Trends
- Area search

Car Evaluation: Safety, recalls, etc: UCI Machine Learning Repository: Car Evaluation Data Set

- Trends
- Projection
- Safety

US weather history: data/us-weather-history at master · fivethirtyeight/data (github.com)

- Outcomes
- Projections
- Future Casts

Joshua Rizo

List the source and describe at least 4 potential data sets:

1. Top U.S. states cheese production
2. U.S. total cheese production
3. Per capita consumption of cheese in the U.S.
4. Leading countries in cheese production

Identify who your customer/s would be :

1. Individuals eat cheese/dairy based products all of the time. This information would be useful for businesses to see where cheese might sell better or can be expanded to.
2. This resource would also be useful for individuals who would want to taste multiple different cheeses from a variety of countries/states in the U.S.
3. Tourists and cheese enthusiasts would also appreciate this resource because of the location information, and might better help them decide where they might plan their vacation.

Describe the problem that each proposed project solves and justify its need:
DATASET(s)

Problem	**What it solves and why is it needed**
There aren't many ways for the average individual to see where cheese is made without doing research on said topic.	This resource would allow users to know where cheese was more frequently made, so that they might have an idea of where they might want to visit.
Cheese makers who want to open a business for cheese making may struggle in oversaturated markets.	This resource allows cheese makers/businesses to determine where they might find more of a market in certain states/countries where cheese isn't really produced.
Tourists outside of the U.S. or Tourists that are from the U.S. who enjoy everything cheese might want to know where they should go to taste quality cheese, or partake in a variety of cheese.	This resource would show those who are interested where cheese is most popularly made in so that they might taste it from the source/not have to travel far from their original destination point to partake in the tasting of the cheese

State the product vision and how your web based project would be useful to society:

This resource is meant to allow users the capability to see information regarding cheeses, where they are made, and how much of it is made in the specified locations. It goes against the grain as something like this doesn't exist in a well known form outside of just researching it oneself. This will allow tourists and business focused cheese makers to make informed decisions regarding the product they enjoy so much, be it for purchasing purposes or for the selling of said aged milk. There are also some key differences between cheeses made in different areas of the word, and even different states, and this could show how some cheeses end up as they are, or how different environments can affect cheese to taste the way it does.

Identify the major features of each of the proposed projects:

1. Top U.S. states cheese production
    a. Ranking the states for cheese production
    b. Top states for cheese
    c. Total cheese production in (Pounds)*1000
2. U.S. total cheese production
    a. Cheese production by year
    b. Trends regarding cheese production
    c. Production estimates in (Pounds)*1000000000
3. Per capita consumption of cheese in the U.S.
    a. Consumption by year in the U.S.
    b. Trends over time
    c. Per capita consumption in pounds
4. Leading countries in cheese production
    a. Cheese production across multiple countries
    b. Ranked countries regarding amount of cheese that is made
    c. Production shown by (Production)*(1000 metric tons)