

Team Member Names:

Mack Antrim

Aidan Hanger

Britt Field

Dexter Osha

Jaimikbhai Dholiya

<https://www.kaggle.com/datasets/borismarjanovic/price-volume-data-for-all-us-stocks-etfs?resource=download>

In the "Project Ideas" document each member of the team needs to do the following tasks:

- 1. List the source of and describe at least 1 potential data sets(8 total points)**
 - a. Kaggle.com, price, volume and data for all US Stocks and ETFs
- 2. Identify who your customer/s would be (8 total points)**
 - a. The customer of this product would most likely be smaller retail investors as large institutions would already have easy access to all of this data
- 3. Describe the problem that the proposed project solves and justify its need (10 total points)**
 - a. Hopefully, by visualizing the data of these stocks in a meaningful way, it would be able to help investors make the right decision in where they would put their money
- 4. State the product vision and how your web based project would be useful to society (8 points)**
 - a. The goal of this product would be to help visualize data about US stocks and ETFs so that everyday retail investors may be able to build wealth instead of working in the cog wheel of society
- 5. Identify the major features of each of the proposed projects (12 total points)**
 - a. The product would try to identify certain trends in these stocks, most likely ETFs as those are easier to compare. It would visualize the data of these stocks and hopefully make it easier for investors to choose what to invest in

Jaimik the "Project Ideas" document each member of the team needs to do the following tasks:

1. List the source of and describe at least 1 potential data sets(8 total points)

[Data Sets link](#)

- Google Cloud Public Datasets.
- Amazon Web Services Open Data Registry. ...
- Data.gov. ...
- Kaggle. ...
- UCI Machine Learning Repository. ...
- National Center for Environmental Information. ...
- Global Health Observatory. ...
- Earthdata.

2. Identify who your customer/s would be (8 total points)

- 2) Social Media. ...
- 3) Ask Customers. ...
- 4) Conduct Surveys. ...
- 5) Hold an Event. ...
- 6) Look Past the Purchase. ...
- 7) Create a Customer Profile. ...
- 8) Conduct Keyword Research.

3. Describe the problem that the proposed project solves and justify its need (10 total points)

Your proposed solution should **relate the current situation to a desired result and describe the benefits that will accrue when the desired result is achieved.**

Propose a solution to the problem related to the business environment.

Determine alternatives or options to the proposed solution.

Analyze costs, benefits, impacts, and risks of the proposed solution.

Validate the solution.

Identify what data exists to better understand this problem.

Think about the impacts of the problem.

Analyze Possible Causes

Identify Possible Solutions.

4. State the product vision and how your web based project would be useful to society (8 points)

An Agile product vision statement **describes why a product is made, who it's for, and what makes it different.** An Agile product vision statement provides clarity on why a product exists. It's the overarching reason for teams to develop the product and ties all their efforts together.

A project vision statement is **a description or declaration of what an organization/project team wants to obtain or accomplish upon the completion of a project.** While the vision is the grand idea, the vision statement is a clear and concise announcement and description of the big picture

5. Identify the major features of each of the proposed projects (12 total points)

The most important major features of each of the proposed projects is to understand and help customers or users to get it done easily.

Britt: In the "Project Ideas" document each member of the team needs to do the following tasks:

1. List the source of and describe at least 1 potential data sets(8 total points)
 - a. National Centers for Environmental Information
 - b. [Sea level measured by tide gauges from global oceans as part of the Joint Archive for Sea Level \(JASL\) since 1846](#)
 - c.
2. Identify who your customer/s would be (8 total points)
 - a. Coastal Developers, Policy makers for coastal areas.
3. Describe the problem that the proposed project solves and justify its need (10 total points)
 - a. The project will display the increased rate of sea level rise over the past 100 years. This will help coastal areas plan to relocate citizens or build better infrastructure to deal with the problem.
4. State the product vision and how your web based project would be useful to society (8 points)
 - a. The project will display a map of the US and have a zoom feature to look at the chosen coasts, and then see the projected rate of increase given the past few years. There will be sliders to show the increase from say 1950-2020
5. Identify the major features of each of the proposed projects (12 total points)
 - a. This will have a data overlay over major coastal areas to slide and see an increase in sea rise, similar to a bubble graph. There will be heat maps for sea level rise increasing over time, and slidable bar graphs to better show the change over time.

Aidan

In the "Project Ideas" document each member of the team needs to do the following tasks:

1. List the source of and describe at least 1 potential data sets(8 total points)

Source: <https://www.bls.gov/opub/mlr/2020/article/ability-to-work-from-home.htm>

This is an article from the Bureau of Labor Statistics that shows how working from home, referred to as remote working, has been integrated into many different business sectors. The data is shown in charts throughout the article.

2. Identify who your customer/s would be (8 total points)

The customers would be employers, entrepreneurs, and contractors looking to determine the effect that working remotely is having on their chosen profession. They would be able to see statistics showing whether working remotely has had a net positive or negative impact on various factors, such as productivity, workload, and stress.

3. Describe the problem that the proposed project solves and justify its need (10 total points)

The proposed project would help to clear up misconceptions about working remotely. Professionals looking to incorporate remote learning in their business would be able to see the pros and cons of remote work, and see the ways it could benefit their business. It would also alert them to possible downsides, and help them to learn about workarounds for those downsides.

4. State the product vision and how your web based project would be useful to society (8 points)

The final result would be a site where customers can look at data statistics showing how their industry has come to utilize remote working. It would detail the effects remote working has had on aspects of a worker's quality of life, including stress, pay, hours worked, and overall productivity. It would also detail how much remote working has been utilized in the rest of the industry. It would be very useful to society because it would show businesses the positive influence remote working can have on both productivity and employees' lives, encouraging them to incorporate a style of working that can be of great benefit to employees.

5. Identify the major features of each of the proposed projects (12 total points)

The major features would include charts detailing the statistics of how remote working has been utilized in various industries, pages describing the various types of remote working, sample programs for how to successfully integrate remote working into a business, and external resources so people can learn more about remote working.

DexterIn the "Project Ideas" document each member of the team needs to do the following tasks:

1. List the source of and describe at least 1 potential data sets(8 total points)
 - a. Epa.gov
 - b. [Download page for AQI annual data](#)
2. Identify who your customer/s would be (8 total points)
 - a. Environmental agencies
 - b. Companies interested in production of cleaner energy

- c. Environmental scientists.
- 3. Describe the problem that the proposed project solves and justify its need (10 total points)
 - a. The problem is climate change is rapidly onsetting and changing the environment as a whole. With the visualization of air quality impact in correlation to having less fossil fuel burning cars on the road. This could provide a solution to help slow down the onset of climate change
- 4. State the product vision and how your web based project would be useful to society (8 points)
 - a. We hope that with the visualization of this data we will be able to sway the general population into relying more on public transit and try to reduce the amount of cars on the road. This could help improve the overall air quality of society.
- 5. Identify the major features of each of the proposed projects (12 total points)
 - a. Visualization of climate impact
 - b. Correlation between covid restrictions and air quality improvement