**Week 1**

Team Met on 2/10 and 2/12 to discuss project and task Assignments

* Rolls of group were assigned
  + Cat and Stephanie – Read Me
  + Patrick/Josh/Andrej/McKenize – Research Data
  + Patrick/McKenzie – Create Heroku
  + Stephanie/Cat/Mckenzie – Work on PowerPoint
  + Cat – Project Manager
  + Stephanie – Team Leader
  + Patrick/Josh - Create Mongo
  + ETL/Machine Learning/Visualization – Split among all group members
* Purpose of project was discussed until found a MVP
* Technology, programming, models were discussed by team
* Josh, McKenzie, Patrick and Andrej researched data sources
* Josh/Patrick/Andrej tested datasets to see which datasets would work within our project/scope
* MSA granularity of data was decided by team
* McKenzie researched different visualization techniques/formats
* Stephanie created Trilleo Board.
* Cat created Project Management Document and Survey of Tasks/Rolls
* Cat and Stephanie created Readme.

**Week 2**  
  
Team Met on 2/14, 2/16, 2/18

* Ranking methodology was established and then switched to using linear regression models per feature and then a more complex machine learning module on all features once speaking to James
* Cat/Stephanie edited readme with updated project status
* Josh wrote code to use for predictions (for loop) in linear regression
* Josh/Andrej found MSA datasets
* Mongo was decided upon team as Database
* Patrick created an ERD of database
* Patrick created Mongo Database using Josh’s established connection
  + Team Members connected to Mongo database
* Datasets were split up per team member
  + Stephanie - Population Dataset
  + Andre - Total Employment Dataset
  + Patrick - GDP Dataset
  + Josh - Unemployment Dataset
* Each Dataset was cleaned, calculated a rate of change, and then predicted using linear regression by the individual listed above
* Patrick and Andrej tested various methods on how to calculate rate of change (by year or by total)
* Cat, Josh, Andrej tested accuracy of linear regression models using 2019 data
  + Cat used unemployment data set (Andrej and Josh checked work and then ran on other models)
  + Linear Regression was found to be inaccurate on Rate of Change Data
* Datasets were recalculated using original numbers and not rate of change numbers
  + Stephanie - Population Dataset
  + Andrej - Total Employment Dataset
  + Patrick - GDP Dataset  
    Josh - Unemployment Dataset
* McKenzie researched visualization ideas and formats for website and heatmaps
* Patrick tested random forest classifier model on data to use instead of ranking system
* Patrick created a mock heatmap
* McKenzie and Patrick worked on website (front end visualization & Heroku)
* Cat created template/rough draft of powerpoint
* Stephanie updated Readme with datasets and any project updates

**Week 3**

Team Met on 2/20, 2/22, 2/24

* 12 datasets were uploaded into Mongo
  + Stephanie Population Change
    - Clean
    - Raw
    - Predicted
  + Andrej Total Unemployment
    - Clean
    - Raw
    - Predicted
  + Patrick GDP
    - Clean
    - Raw
    - Predicted
  + Josh Unemployment Rate
    - Clean
    - Raw
    - Predicted
* McKenzie created blueprint of dashboard
* Cat edited and continued working on rough draft of powerpoint