Repository and Mining of Temporal Data

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Progress of Current Milestone

Task	Completion %	Jessica	Siomara	To-Do
Q3	0%	0%	0%	Pseudocode, Implement, Test
NarrowData	80%	70%	10%	Test Cases, Tag Search
Django Website	80%	0%	80%	Q2 graphs, Q3 graphs
Save File Uploads	100%	10%	90%	Improve code
Database Input Handling	100%	60%	40%	N/A
Improve Current Code	80%	45%	35%	Speed and Optimization, Compatibility
Project Plan, Evaluation Document, Presentation	100%	50%	50%	N/A

Discussion of Each Accomplished Task

- Q3
- NarrowData
- Django Website
- Save File Uploads
- Database Input Handling
- Improve Current Code
- Project Plan, Evaluation Document, Presentation

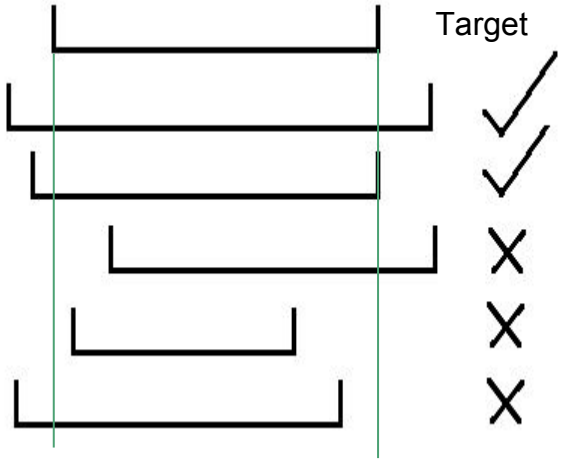
Q3

- Linear regression to predict the future timestamp
  - Currently only predicting 1 timestamp

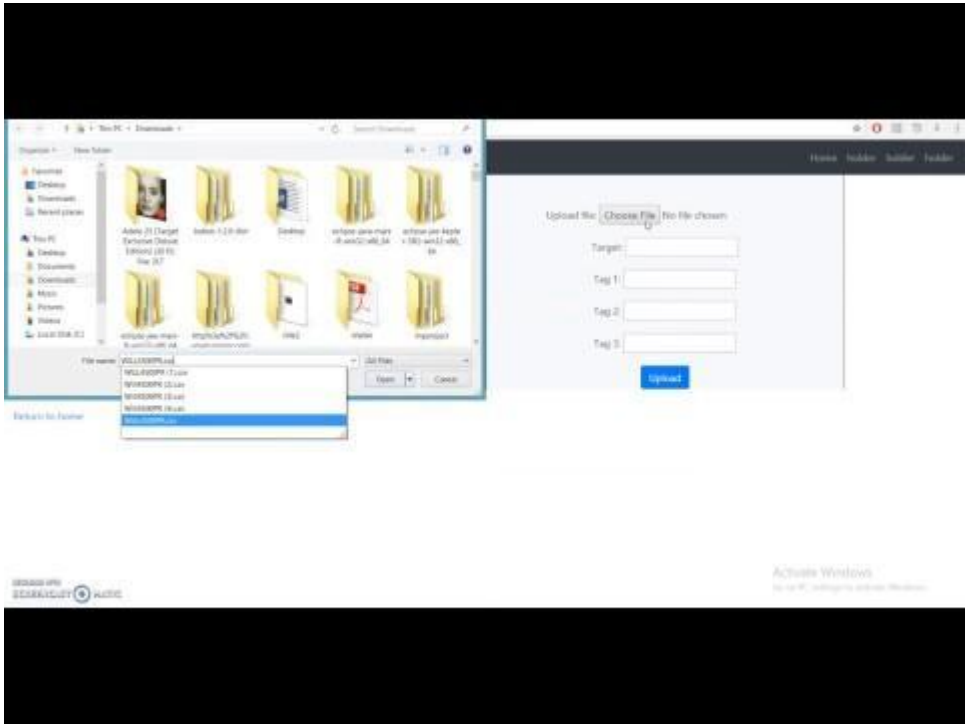
- Did not complete/work on during Milestone

NarrowData

- Search via granularity is complete
  - Accepts files whose timestamps have occured before the first timestamp of the target variable and whose last timestamp occurred either after or during the last timestamp of the target variable
  - Queries the database and compares timestamps, returns a list of filenames that match
  - No loss in data
- Milestone 5: Add Search via Tags and granularity compatibility
  - Ensure that variable timestamp - lag is still less than first timestamp of target variable.



Django Website



https://youtu.be/uBIDycz_ePo

Save File Uploads, Database Input Handling

- Files are saved on local directory.

- Python code takes in user inputs: filename, description, tags, and type of granularity (daily, monthly, yearly).
  - Calculates start time, end time
  - Sets ID number of file in database
- Data is populated in database using queries with Python

Improve Current Code

- Q2 rewritten for compatibility with NarrowData and streamlined flow
- Creation of ParseData for data preparation/rolling when running NarrowData
- Aim for speed when showing the results
- Accuracy of results

Plan for Next Milestone

Task	Jessica	Siomara
Q3	Pseudocode, Implement, Ensure compatibility with other classes, Test with dummy database for accuracy	Brainstorm, research, Django framework
Narrow Data	Implement Tag search, Further testing	Implement on framework
Showcase Documents	Prepare and turn in documents before due date	Prepare and turn in documents before due date
Target Variable Search	Implement and Test user registration, edit Upload Code	Implement and Test, User registration on Django
Upload more files	Find more .csv files, test dummy database for accuracy, test with actual database for accuracy	Find more .csv files, Django display search results
Q2	Ensure that NarrowData changes are reflected correctly in Q2, add z-score graphs to Q2	Backend for analysis of Q2, show graphs
Improve Current Code	Speed, Optimization, Accuracy, Compatibility	Speed, Optimization, Accuracy, Compatibility
Poster	Poster Sketch, Research	Design Poster
Evaluation Document, Presentation	Write evaluation document, Create presentation, put code on GitHub repository.	Write evaluation document, Create presentation, put code on GitHub repository.