

# Repository and Mining of Temporal Data

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# Goals

To simplify data collection and analysis into one location.

Create a program that analyzes data and compares it to data already stored in the system and visualize data for easy explanations.

# Approach

There are three questions the program answers:

- Q1: Is there a significant change in the target variable?
- Q2: What are the top-k variables that affect the target?
- Q3: What is the value of the next timestamp?

# Novel Features

The program collects, stores, and analyzes data in one place.

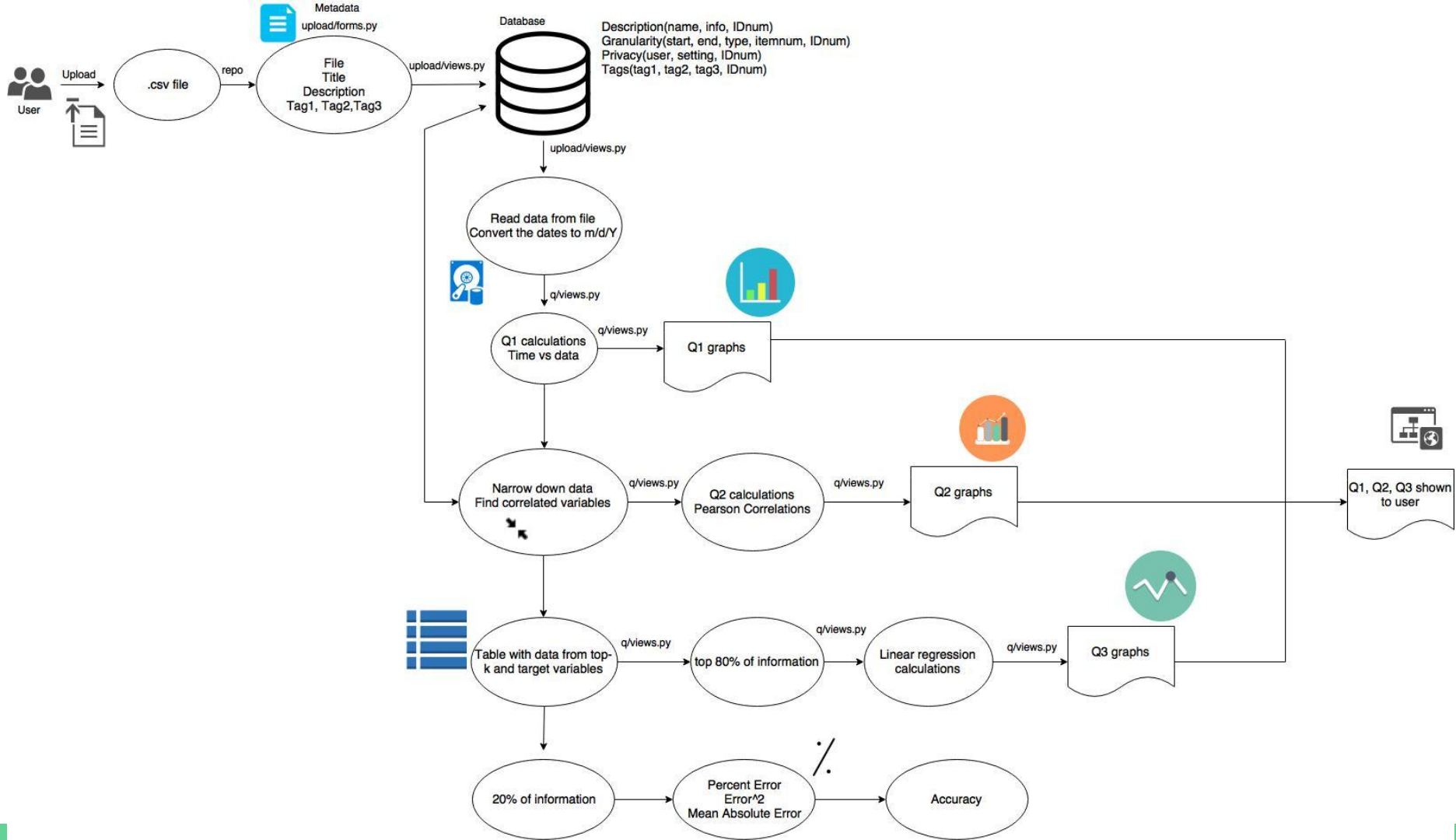
Program will be able to convert uploaded data into a specific format for users and the program to use.

Visualization for every question answered.

Optional download of analysis.

# Technical Challenges

- Lack of experience with Django and a lack of documentation
- Website Display
- Optimization and accuracy with results; LocalHost
- Issues with implementing NarrowData and using a Database to get the Metadata
  - Description, Tags, File name, etc



# Progress Summary

Module/Feature	Completion %	To Do
<b>Main Page</b>	90%	Webpage Design, Redirect navigation bar
<b>User Upload</b>	85%	Webpage design, metadata forms for user, redirect to Q1, Q2, Q3
<b>Q1</b>	90%	Website Application
<b>Q2</b>	60%	NarrowData.py, ParseData.py, Website Implementation, Database
<b>Q3</b>	0%	Plan, Implementation, Website, Testing
<b>NarrowData</b>	70%	Refine method of NarrowData, research on how to handle different granularity, finish parsing and testing
<b>Database</b>	50%	Rework database, connect database to Django, web application

# Task Matrix - Milestone 4

Task	Jessica	Siomara
<b>Q3</b>	75%	25%
<b>NarrowData</b>	85%	15%
<b>Django Website</b>	10%	90%
<b>Save File Uploads</b>	25%	75%
<b>Database Input Handling</b>	50%	50%
<b>Improve Current Code</b>	30%	70%
<b>Evaluation Document, Presentation</b>	50%	50%



# Milestone 5 and 6

## Milestone 5 (Mar. 19):

- Q2 with k-number of variables picked by user
- Improve Visualization
- User Registration, Public/Private tags
- Q3 Add additional forecast points
- Q3 app on website
- Search for past results
- Download uploaded files of official data
- Testing
- Evaluation Document, Presentation

## Milestone 6 (Apr 16):

- Final Design of website
- Save results in account (provider/user)
- Optimization
- Test/Demo Entire System
- Create User Manual
- Create Demo Video
- Evaluation Document, Presentation