Shree Chanakya Education Society's

Indira College of Commerce & Science, Wakad, Pune

Project Presentation

"Efficient clustering algorithm to segregate tests on their execution behavior"

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AGENDA

- What is this project about?
- Why this project is needed?
- H/W & S/W Requirements
- UML Diagrams
- Output
- Future Enhancements
- References

What is this project about?

- Regretion tests
- Automation
- Machine Learning

Why this project needed ?

- Related to my work
  - Existing system
  - Limitations
  - Manual work

- I'm Curious about
  - Artificial Intelligence
  - Data Science
  - Machine Learning

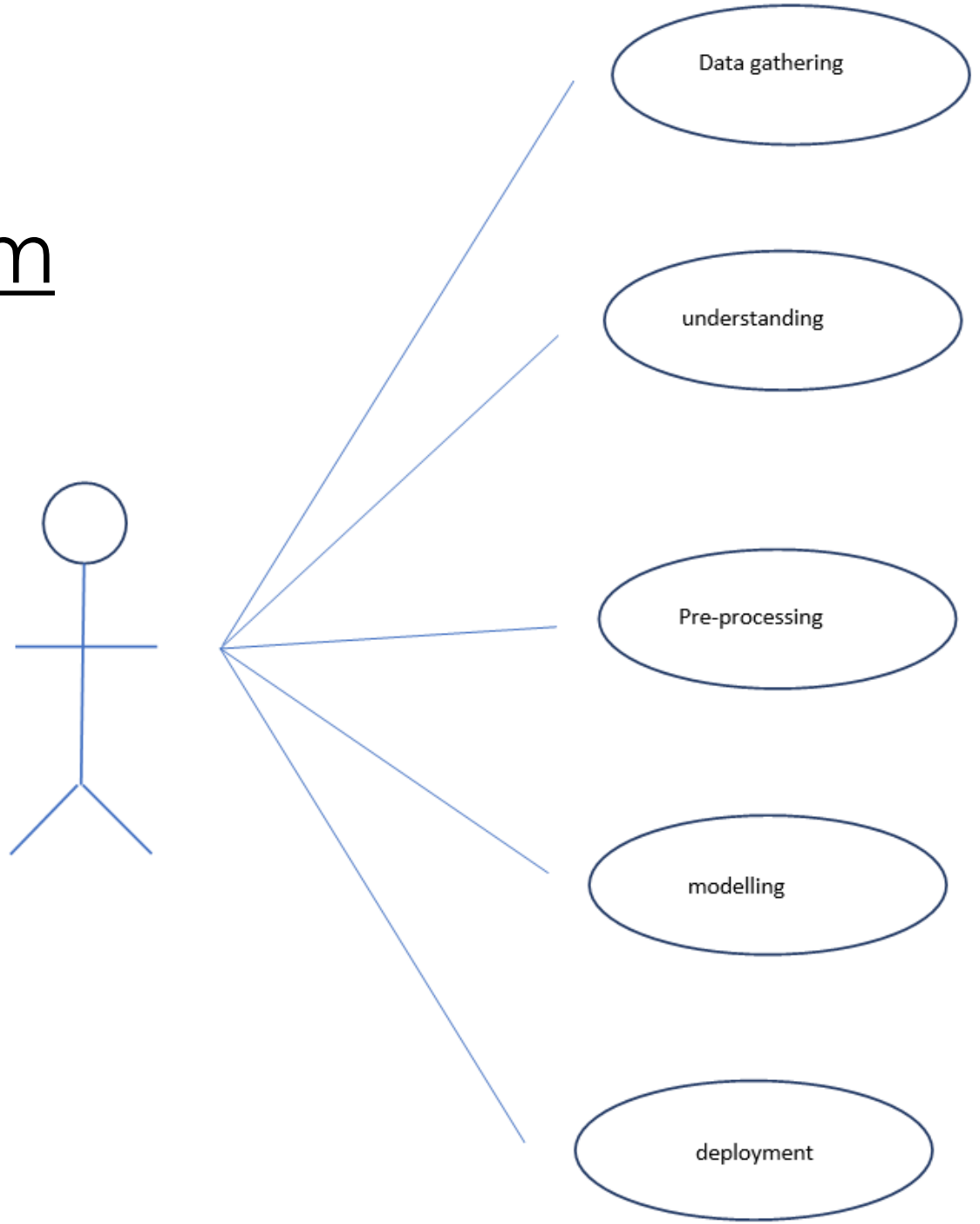
- Next generation's job opportunities
  - AI
  - Bio-technology
  - Nano-technology

H/W & S/W Requirements

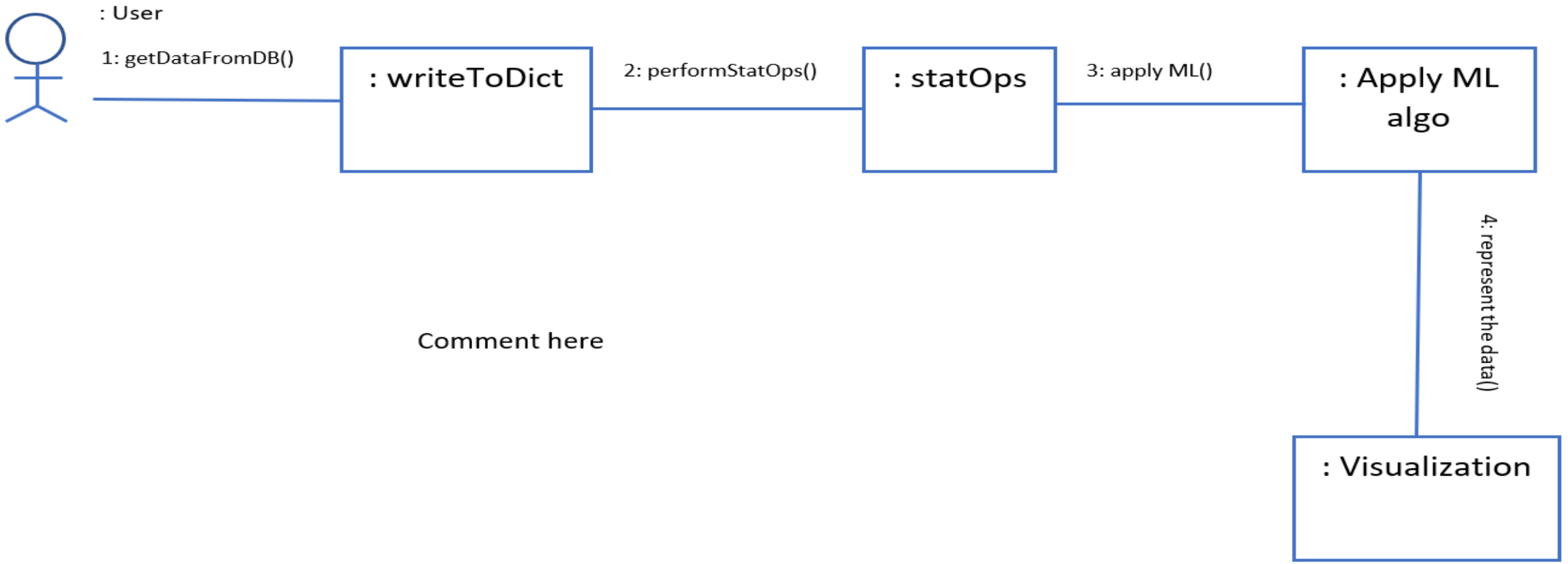
- **Hardware Requirements :**
  - ✓ 8 GB RAM
  - ✓ Intel 4th generation or above processor
- **Software Requirements :**
  - ✓ Windows/Linux
- **Tools:**
  - ✓ Jupitor notebook
  - ✓ matplotlib
- **Technology:**
  - ✓ Python 3.6 or grater

UML Diagrams

Use Case Diagram



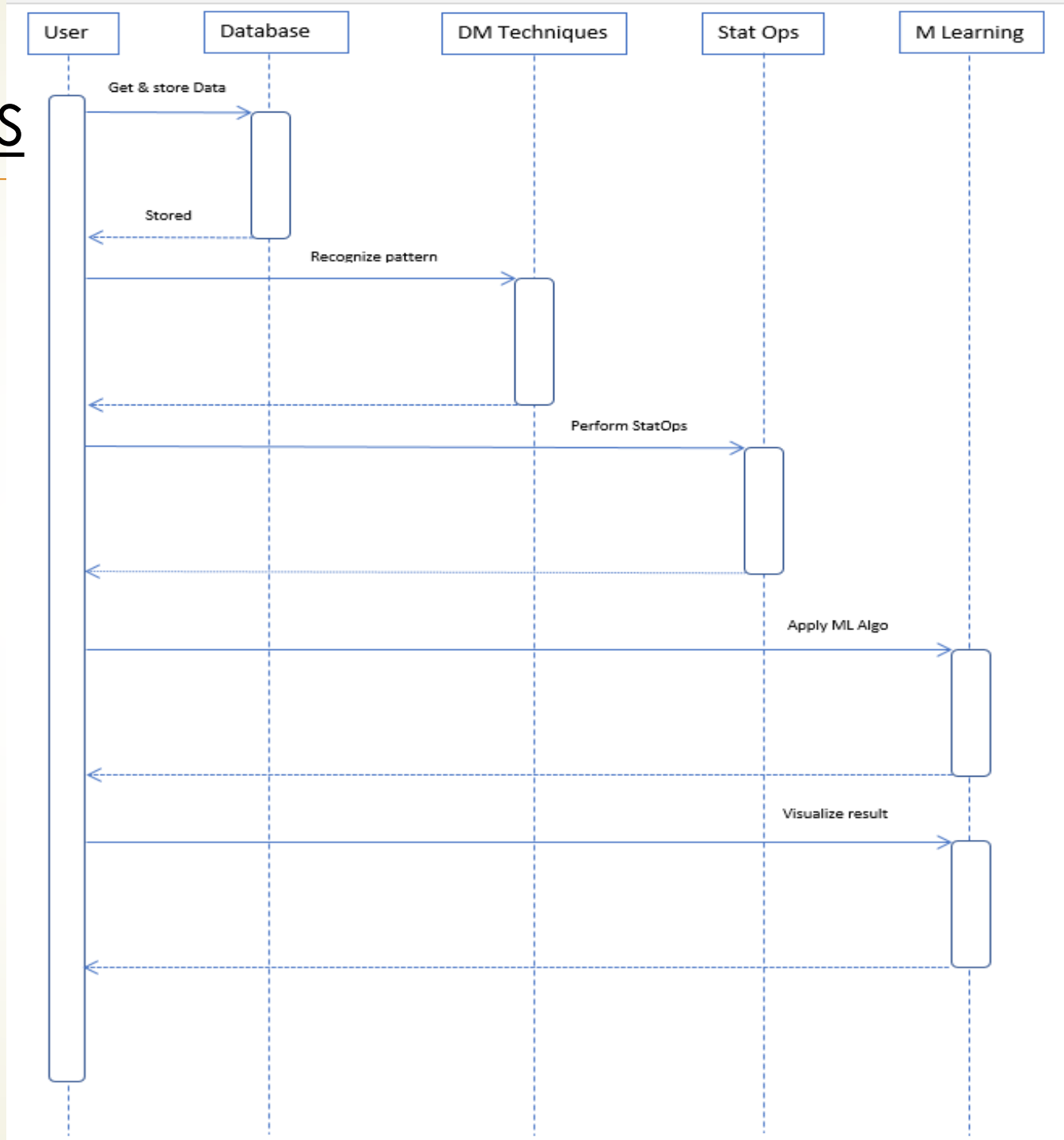
UML Diagrams - Collaboration



Collaboration Diagram

UML Diagrams

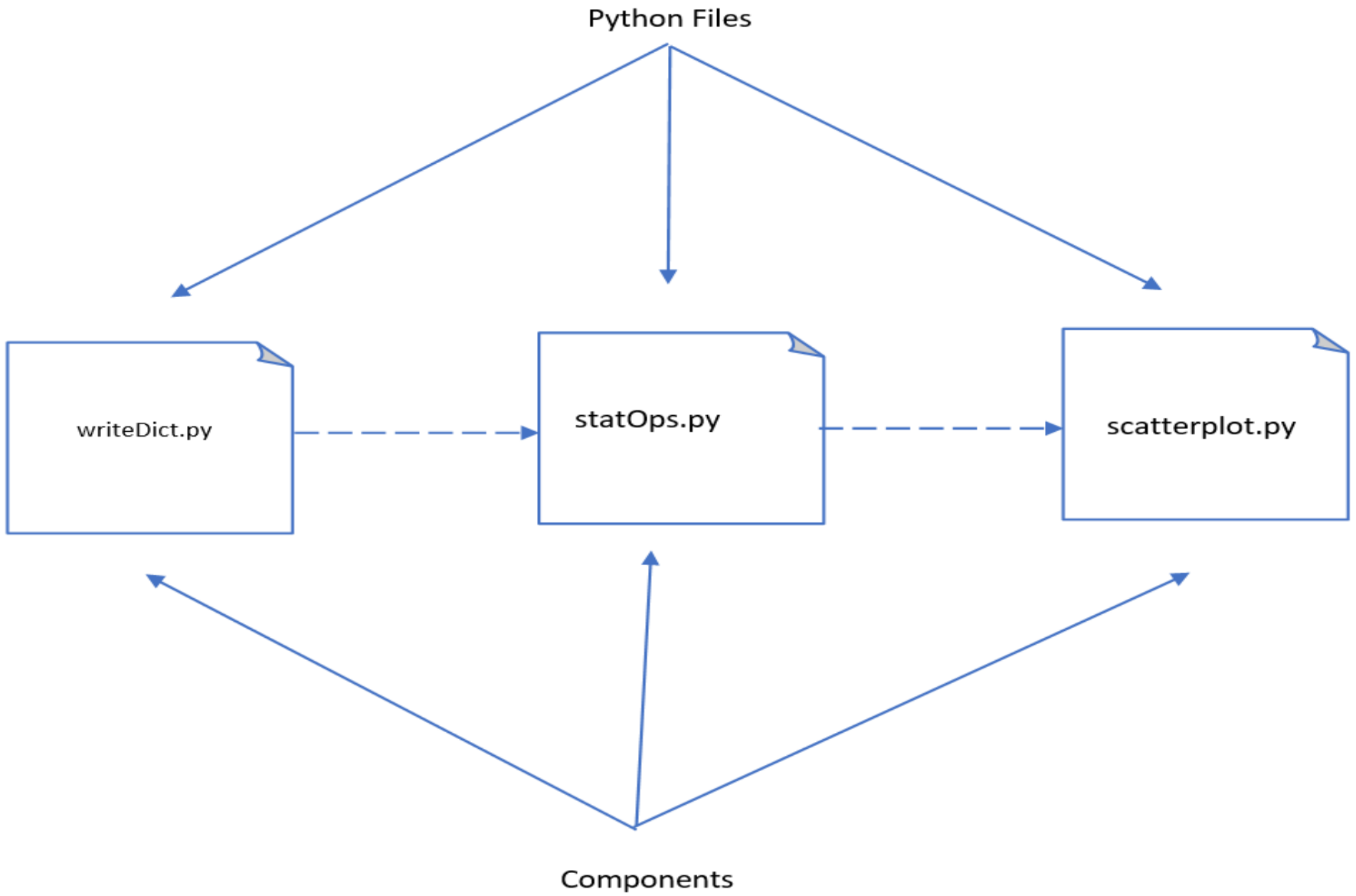
Sequence



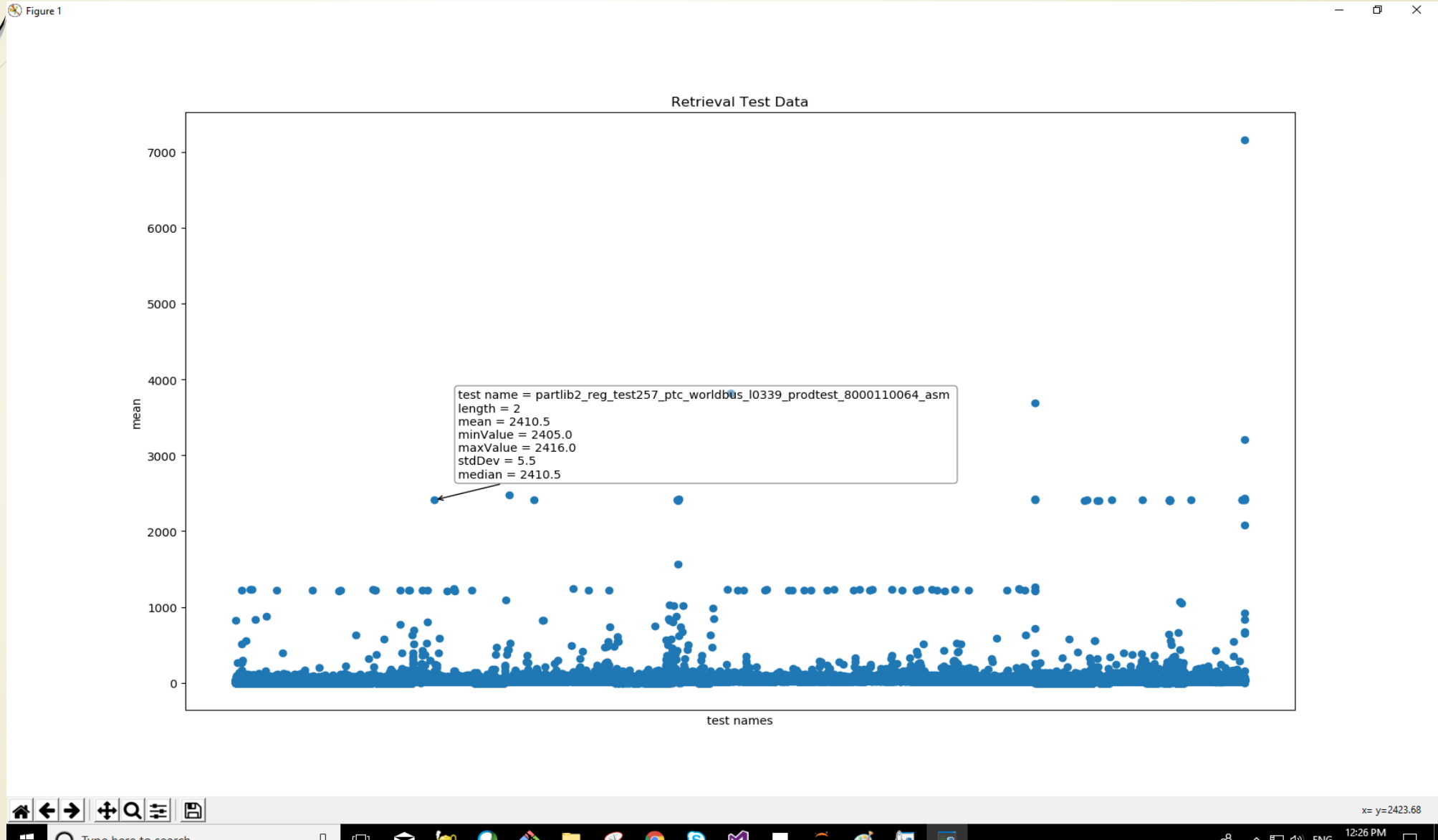
UML Diagram

Class Diagram

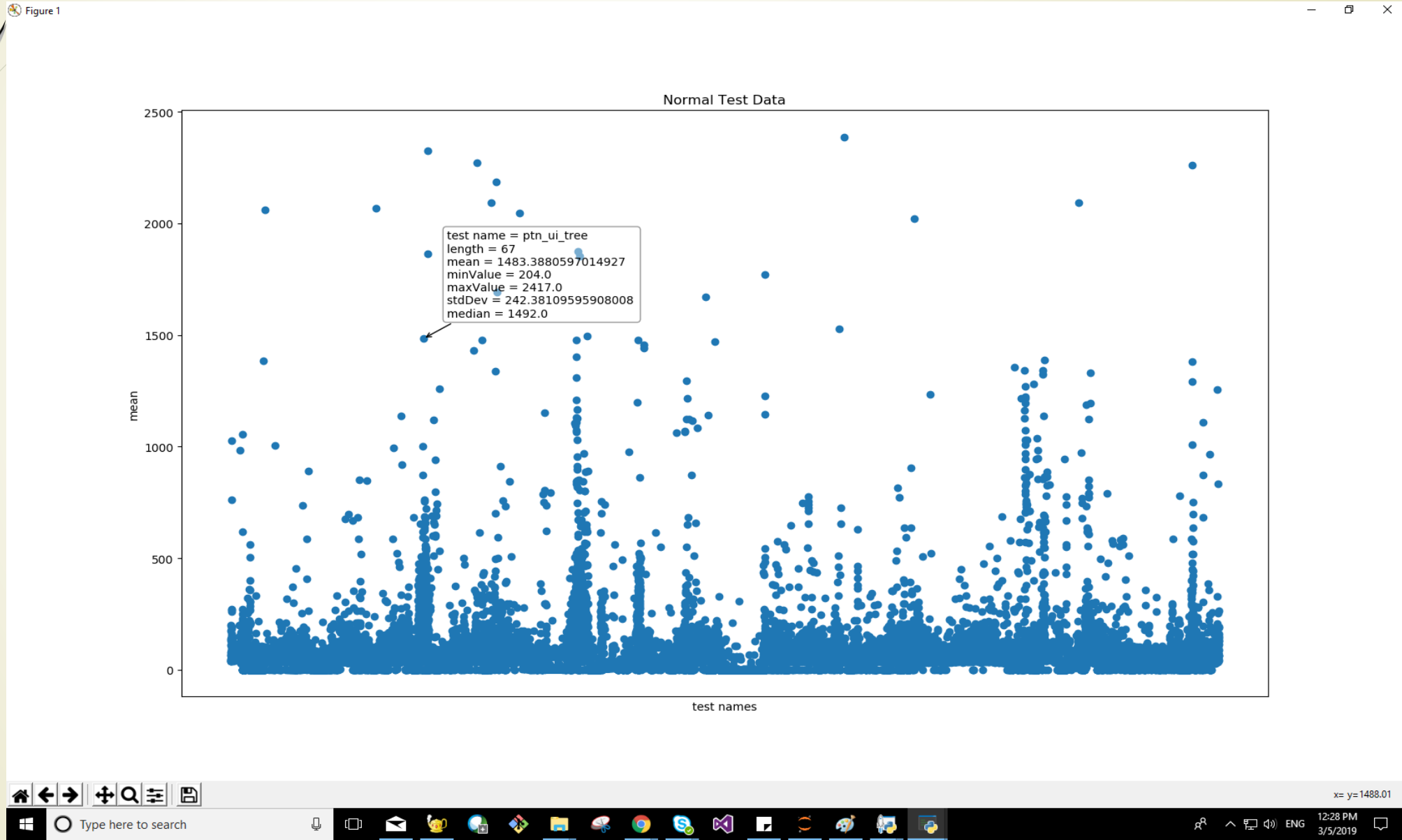
UML Diagrams – Component



Output – (124,383)

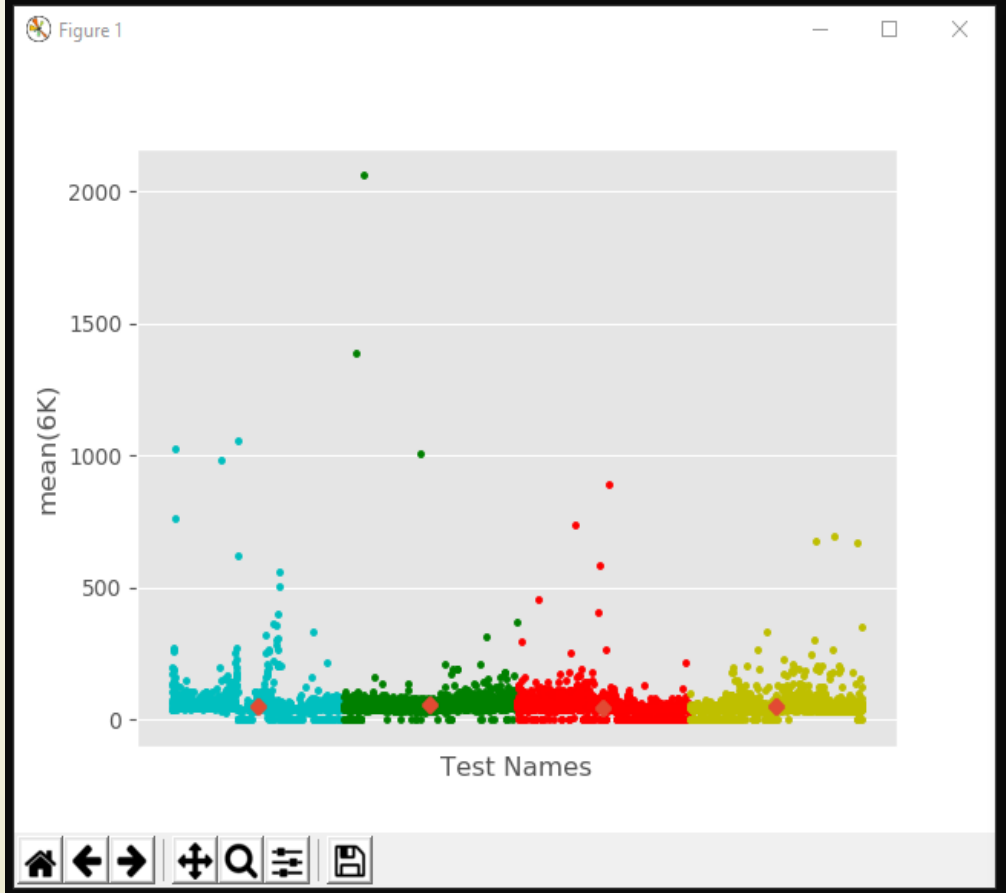


Output – (48,295)

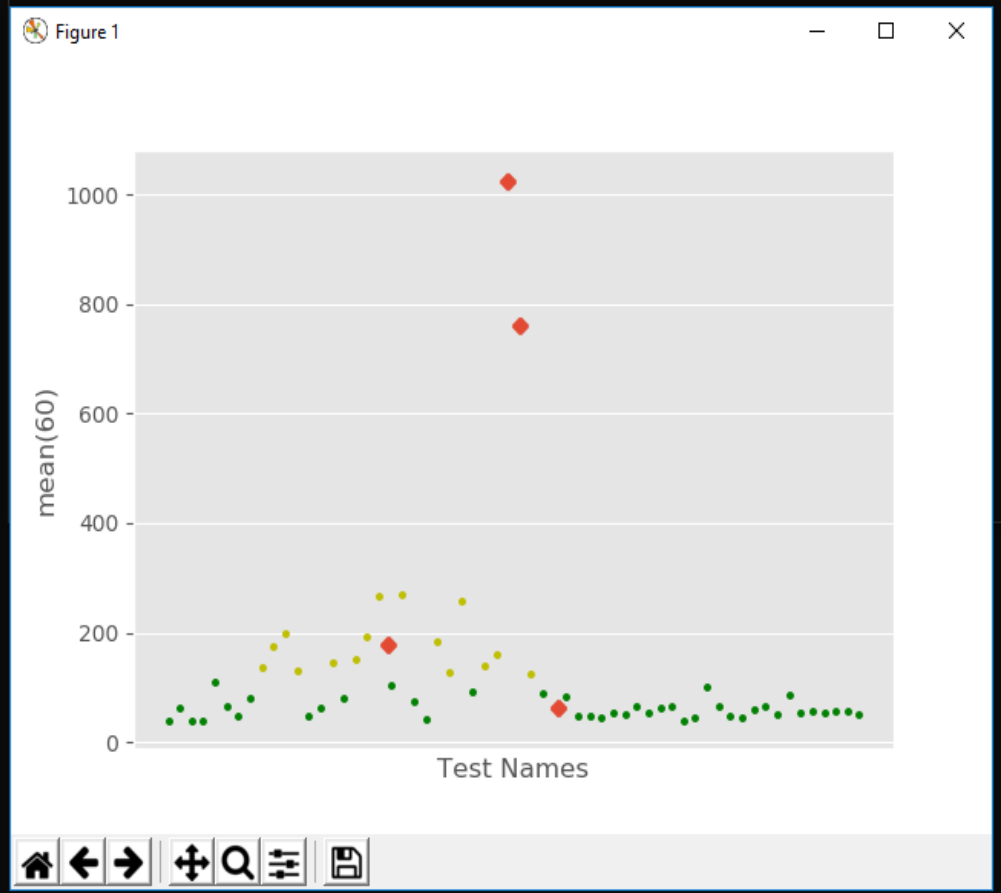


Output – (48,295)

```
6000
stored all values in dictAllValues
centriod :
 [[2247.          59.03391294]
 [3750.5         48.22614124]
 [5251.          52.39520902]
 [ 747.5         53.73861429]]
finised plotting
```




```
C:\WINDOWS\py.exe
60
stored all values in dictAllValues
centriod :
 [[  33.25581395   61.40518444]
 [  29.         1025.14864865]
 [  18.73333333  177.47710658]
 [  30.          761.68831169]]
finised plotting
```



Output – (48,295)

Future Enhancements and References

- Prediction of the test
- Daily, weekly, monthly and yearly report can be generated

- Python.com
- Youtube.com
- Scikit-learn.com
- Wikipedia.com
- Youtube.com/sentdex

Where to get more info

github.com/gkalidas/Python/tree/master/MCS_project_sem_III

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Thank You!