

GenAI-PM Project Output Evidence Doc

Codespace GIT Env access:

<https://github.com/ajitsamalucsb/ucsb/tree/master>

1. Report the total number of tasks that are overdue:

Code reference(taskOverDueCount.py)

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

Filtered data:

      Ref
104 T116412.182 Works Complete / Resolved ... Report Status Task Group
110 T116412.181      Open / Ongoing Works ...      Open      Quality
111 T84104.964 Works Complete / Resolved ...      Open      Quality
126 T116412.179      Open / Ongoing Works ...      Open      Quality
127 T116412.178      Open / Ongoing Works ...      Open      Quality

[5 rows x 19 columns]

Count of filtered rows:
858
PS C:\Users\AJIT\Desktop\UCSB\Fall 2023\Project Mangement\chatGPT> |
```

Also tried to generate the HTML output:

Code reference(taskOverDueCountHTML.py)

<file:///C:/Users/AJIT/Desktop/UCSB/Fall%202023/Project%20Mangement/chatGPT/output.html>

111	T84104.964	Works Complete / Resolved	QC & BC(A)R>ITP 01 Structural>Block 1>4th Floor Plan	big. Expanding foam to be removed and joint shuttered before filling with grout	07/09/2020	44087.0	JPC - Quality Defect (compliance)	Precast Concrete	10/09/2020	NaN	True	True	False	False	High	JPC - Quality - Workmanship	1321
126	T116412.179	Open / Ongoing Works	QC & BC(A)R>ITP 02 Architectural & M&E Services>Block 3>Elevations>2. Courtyard (North Elevation)>7th floor to Roof	Ply sheets to be removed.	03/09/2020	44083.0	JPC - Quality Snag (aesthetic)	Concrete - Formwork	03/09/2020	NaN	True	True	False	False	NaN	JPC - Quality - Materials	1321
127	T116412.178	Open / Ongoing Works	QC & BC(A)R>ITP 02 Architectural & M&E Services>Block 3>Elevations>2. Courtyard (North Elevation)>7th floor to Roof	Illbruck tape to be installed around ducts	03/09/2020	44083.0	JPC - Quality Snag (aesthetic)	Ceilings & Partitions	03/09/2020	NaN	True	True	True	False	NaN	JPC - Quality - Materials	1321

Count of filtered rows: 858

2. Report the Total Number of Open and Closed Tasks by Each Task Group

Code reference(taskGroupByReportStatus.py)

```
4 T141663.26 EHS Good Observation ... Closed Safety
```

```
[5 rows x 19 columns]
```

```
Count of distinct values in Column1 for each value in Column2:
```

	Task Group	Report Status	Count
0	Design Team	Closed	928
1	Design Team	Open	211
2	Quality	Closed	595
3	Quality	Open	336
4	Safety	Closed	8297
5	Safety	Open	587
6	Site Management	Closed	1081
7	Site Management	Open	339

```
PS C:\Users\AJIT\Desktop\UCSB\Fall 2023\Project Mangement\chatGPT> █
```

Also refer the Status column to get the Task Group count

Code reference(taskGroupByStatus.py)

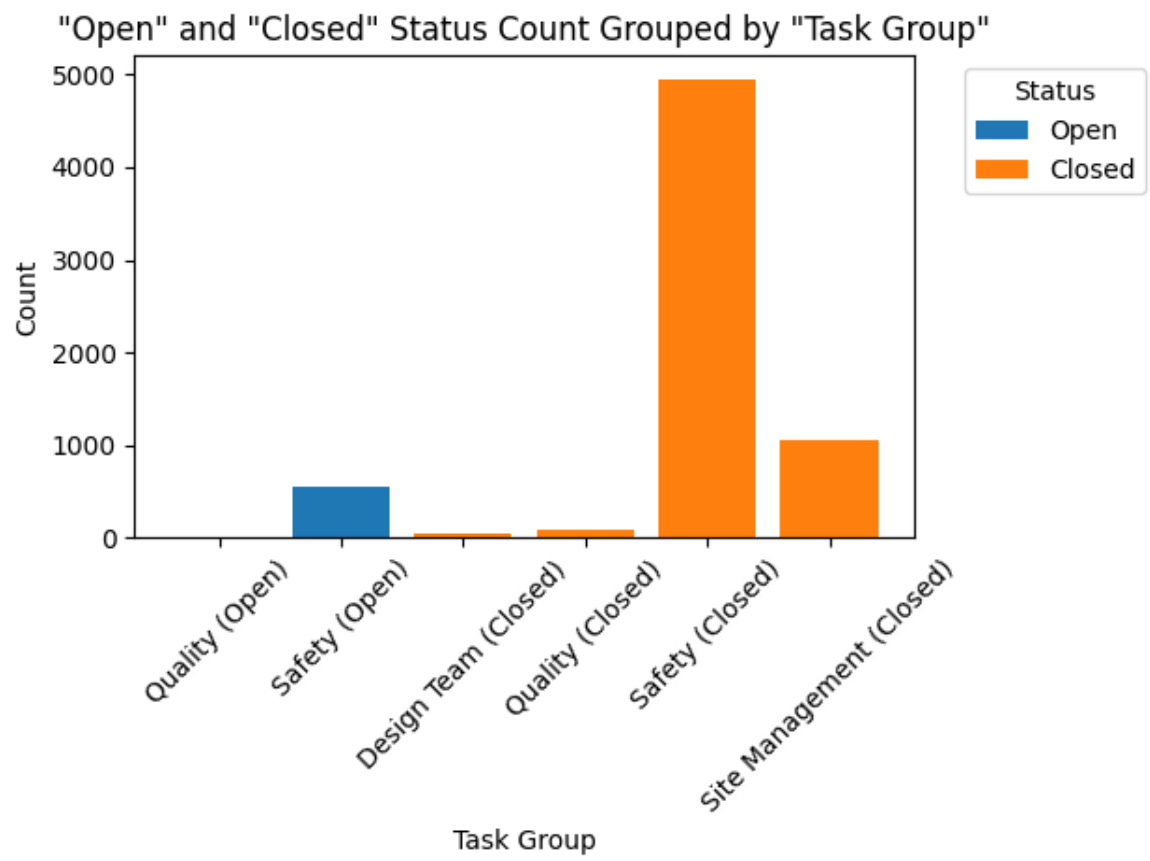
PROBLEMS	OUTPUT	DEBUG CONSOLE	TERMINAL	PORTS
13	Quality	Rejected / Action Required		88
14	Quality	Works Complete / Resolved		41
15	Safety		Closed	4954
16	Safety		Complete	30
17	Safety	EHS Good Observation		3343
18	Safety		Open	557
19	Site Management		Closed	1052
20	Site Management	Delivered - Material onsite		1
21	Site Management	JPC Inspected		14
22	Site Management	JPC Sign Off / Closed		27
23	Site Management	Open / Ongoing Works		297
24	Site Management	Photo Record		1
25	Site Management	Rejected / Action Required		24
26	Site Management	Works Complete / Resolved		4

```
PS C:\Users\AJIT\Desktop\UCSB\Fall 2023\Project Mangement\chatGPT> █
```

3.Create a bar chart of the total number of open and closed tasks by each Task Group

Code reference(barChartByTaskGrpStatus.py)

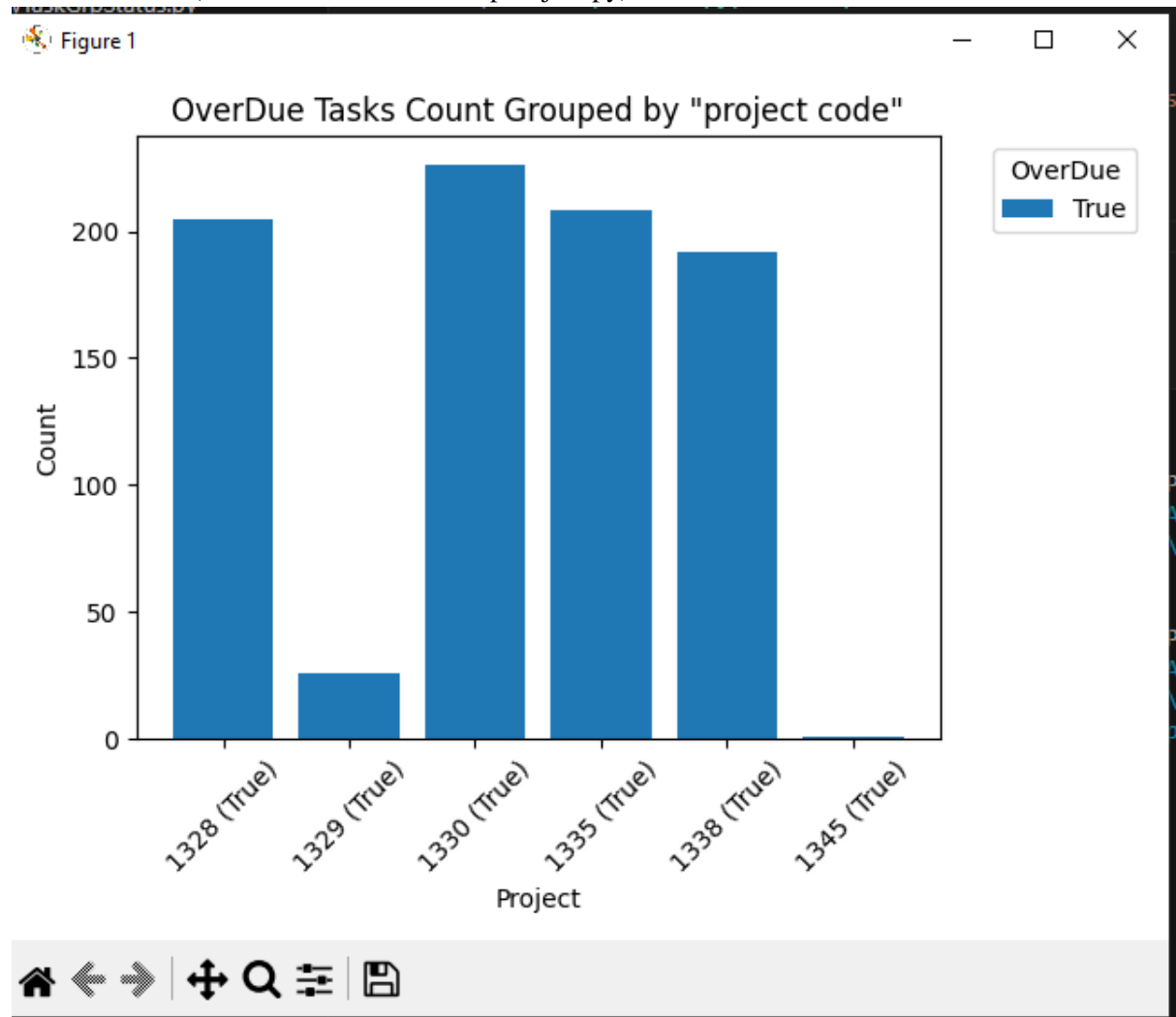
Figure 1



x=Quality (Open) y=4.74e+03

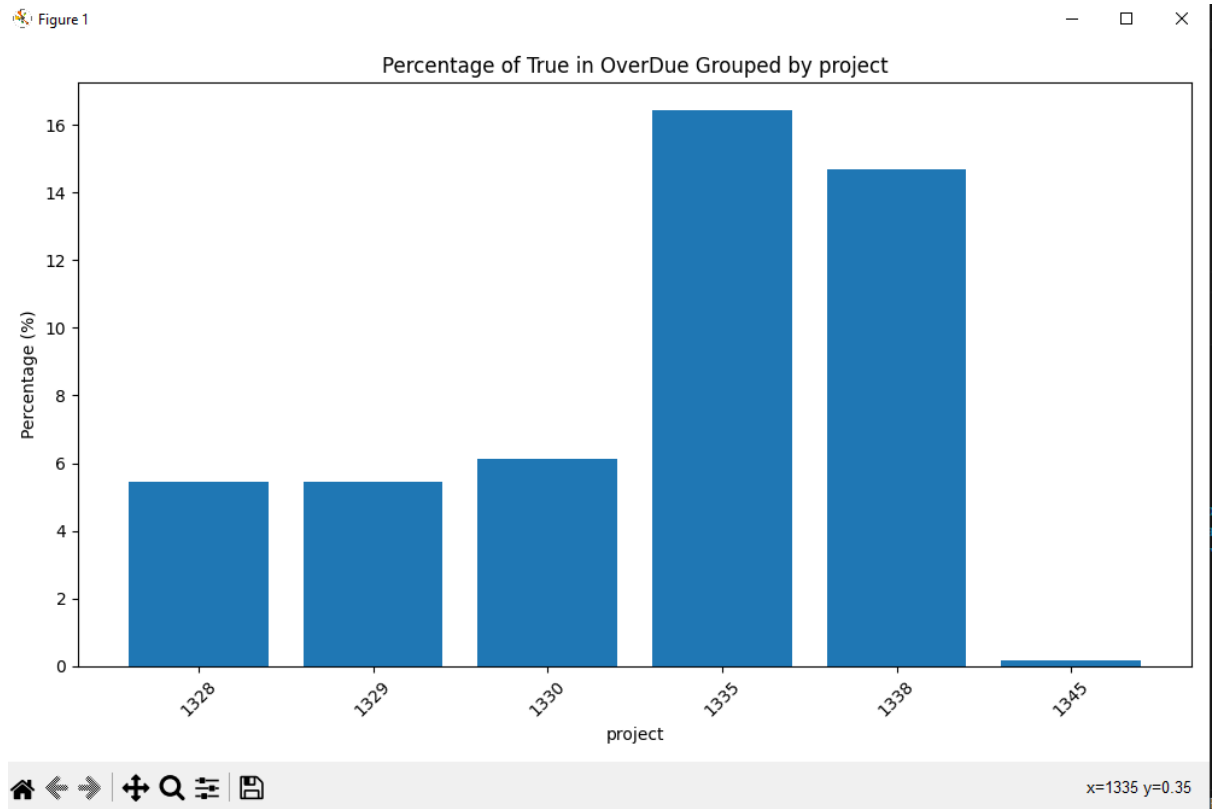
4. Create a bar chart of the total number of overdue tasks by project

Code reference (barChartOverDueTaskGrpProject.py)



5. Create a bar chart of the percentage of overdue tasks by project. (Optional)

Code reference (barChartOverDuePercentByProject.py)



6. Report the mean number of days elapsed since forms were opened by project.(Optional)

Code reference(meanElapseDaysByProject.py)

PROBLEMS	OUTPUT	DEBUG CONSOLE	TERMINAL	PORTS
	Project	Elapsed Days		
0	1328	1318.46		
1	1329	1293.33		
2	1330	1281.35		
3	1335	1265.43		
4	1338	1213.72		
5	1340	1198.95		
6	1343	1188.17		
7	1345	1188.17		

PS C:\Users\AJIT\Desktop\UCSB\Fall 2023\Project Mangement\chatGPT>

Additional Try:

1.Creating HTML Output

Code reference(meanElapseDaysByProjectHTML.py)

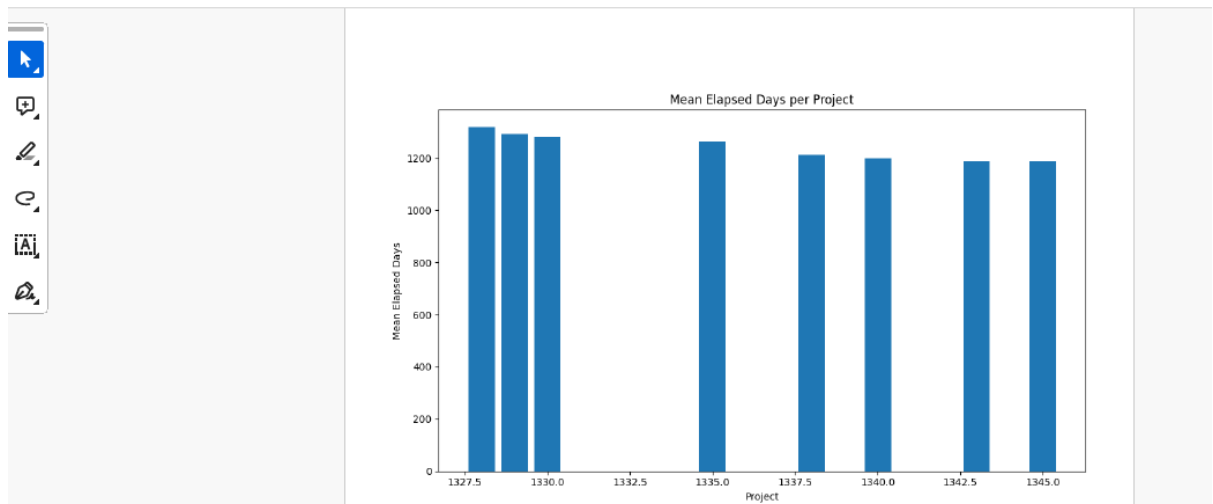
```
PS C:\Users\AJIT\Desktop\UCSB\Fall 2023\Project Mangement\chatGPT> c::; cd 'c:\Users\AJIT\Desktop\UCSB\Fall 2023\Project Mangement\chatGPT'; & 'C:\Users\AJIT\AppData\Local\Microsoft\WindowsApps\python3.11.exe' 'c:\Users\AJIT\.vscode\extensions\ms-python.python-2023.18.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '55799' '--' 'c:\Users\AJIT\Desktop\UCSB\Fall 2023\Project Mangement\chatGPT\meanElapseDaysByProjectHTML.py'
* Serving Flask app 'meanElapseDaysByProjectHTML'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 142-921-568
```

Mean Elapsed Time by Project

	Project	Elapsed Days
0	1328	1318.457581
1	1329	1293.334983
2	1330	1281.351792
3	1335	1265.427861
4	1338	1213.723529
5	1340	1198.951613
6	1343	1188.174242
7	1345	1188.174242

2.Creating pdf output with chart

(reference script: meanElapseDaysByProjectPDFOutputScript.py)



3.Sending report output over email

(reference script: meanElapseDaysByProjectSendEmailScript.py)

Mean Elapsed Time by Project Σ Inbox x



ajitapps@gmail.com
to me ▾

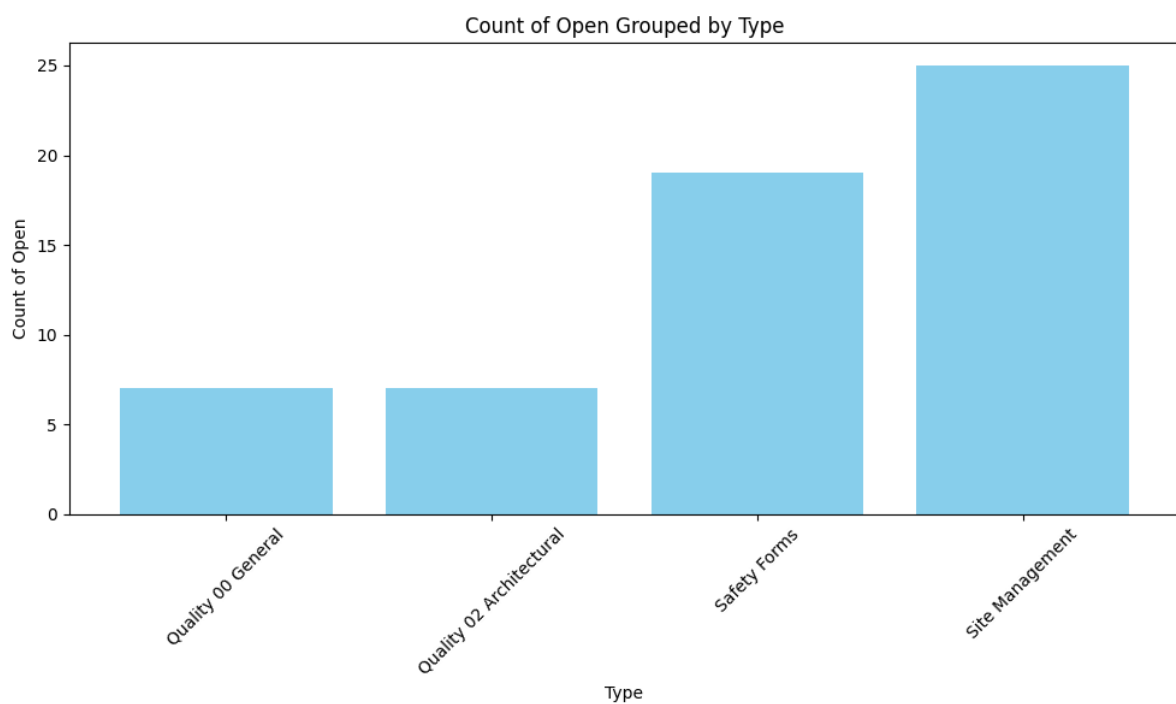
8:16 PM (1 hour ago)

	Project	Elapsed Days
0	1328	1318.457581
1	1329	1293.334983
2	1330	1281.351792
3	1335	1265.427861
4	1338	1213.723529
5	1340	1198.951613
6	1343	1188.174242
7	1345	1188.174242

7. Create a bar chart of the number of open forms by Type of form. (*Optional*)

(reference script: openFormByFormType.py)

Figure 1



8.) Create a time series plot of the number of forms opened (which are currently open) by Report Form Group. (*Optional*)

(reference script: openFormByFormType.py)

Figure 1

