מבוא למחשוב ענן - סמסטר אביב התשפ"ד

תרגיל בית 3

Github Link : [Introducation\_To\_Cloud\_Computing/HW3 at main · mahersalman/Introducation\_To\_Cloud\_Computing (github.com)](https://github.com/mahersalman/Introducation_To_Cloud_Computing/tree/main/HW3)

Colab Link : [Final HW3\_cloud.ipynb - Colab (google.com)](https://colab.research.google.com/drive/1YseNUm5Co-2i7gww6QuuVwmvtizPr0wE#scrollTo=5mYkQWwi5DMc)

חלק ראשון

| Names | Tasks | Finished Tasks | Acceptance test |
| --- | --- | --- | --- |
| מאהר סלמאן | * System Engineer * Programmer Documentation | All | Check code Organization |
| נור עמורי | * Collaborations Pages | All | Checks graph data according to the actual data |
| עדן בטו | * ChatBot | All | Check bot according to given question, and check question that’s must return Nothing |
| אסד ספורי | * Upload Json | All | Check connection + upload correct json and incorrect json |
| מוחמד אגבאריה | * Graphs – Heatmaps,CategoryGraph | All | Check graph according to a week data |
| סמירה דבאח | project manager   * User Documentation | All | Check gui |

The elements required by our group:

|  |
| --- |
| Task |
| find a progress pattern of the students’ assignment: how they create new tabs and add features, who is the main contributor to the task? is there a pattern in the days/hours they worked? can you find collaboration signs (e.g. working during the same hours, contributing to the same tab)? |

חלק שני

1. We completed the implementation of the features initiated in part 2, as well as fully connecting the data source to firebase and the upload of data to firebase.
2. Chat bot implementation as we have learned in the course, we give the options to chose built-in question using dropdown menu and also to choose to write another question.
3. we implemented 4 graphs that answer the requirements given in our task:

“find a progress pattern of the students’ assignment: how they create new tabs and add features” - progress pattern can be seen in the graph in the last row in Employee page, as well as number of elements created, added, deleted for each project.

“who is the main contributor to the task?” – can be seen in the Documents page, in the pie chart.

“is there a pattern in the days/hours they worked?” – can be seen in the heatmap in the Employee page

“can you find collaboration signs (contributing to the same tab)?” – can be seen in Collaborations page

1. Code Review -Results (full review attached in git repository)

*Strengths and Key Features mentioned in the review*

* Object-Oriented Programming : Efficient code organization with the using of OOP .
* User-Friendly GUI : intuitive and easy to navigate interface
* Clear Code : Comprehensive Code explanation for better understanding

*Areas for Improvement mentioned in the review*

* Setting a different JSON as data source bug: " When uploading a new json file, the displayed data did not change accordingly*" -* Fixed
* Error Handling for File Uploads: "The system does not return an error when non-JSON files are uploaded." - Fixed
* Downloading data as CSV file: There is no download as CSV feature – Unchanged (This is a great idea but we decided to go ahead without implemention)

חלק שלישי

* User Documentation , Programmer Documentation and small video that shows and explains GUI, all attached with the projects files and included in Git repository.