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 actucal data |
| עדן בטו | * ChatBot | All | Check check bot according to given question , and check question that’s must return Nothing |
| אסד ספורי | * Firmware Connection * Upload Json | All | Check connection + upload correct json and uncorrect 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 that’s given to our group to implement it.

|  |
| --- |
| 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. **All features finished also we added collaborations page for collaboration graphs and set on this page graphs that show collaboration for each taps between employees .in addition we build heatmap for number of operation in day/Hour for chosen week. And another graph that shows for each type of actions the number of operation done be chosen employee ,this two graphs added to Employee page.**
2. **Chat bot implementation as we have learned in the course , we give the options to chose built-in question using Dropbox and also to chose to write another question .**
3. **As I described in point 1 – we implements 3 graphs that’s show collaborations using heat map and collaborations graph ,and progress for each employee using actions type that shows us the most frequent actions user make for example showing more modifications than adding/delete shows improvement of employees work .**
4. **Code Review -Result**

**"Strengths and Key Features"**

* 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”**

* 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: Unchanged : “There is no download as CSV feature" – UNCHAGE (This is a great idea but we decided to go a head without implement it )

**חלק שלישי :**

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