

Search Engine Report

GREEN FALCONS

Section : 88328

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Our team consists of 4 individuals

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Firstly the team was created on the 24th of October and named Green Falcons.

The first official meeting was on the 30th of October at approximately 8 pm where we established our github project by adding the the initial classes which were linkedlist, list and node as we also had a discussion about the Project PDF file that was uploaded from the LMS.

Which we talked about what was the project? What is the meaning of it? Why do we even need it? Could it be implemented easily? Is there a better or similar way to create the same search engine and make even more efficient?

Then we created a calendar to make plans and help with sorting and to prioritize the tasks that needed to be done in a period of time and to help make sense of what do we want to accomplish in a specific period of time.

On the same day we planned the next meeting which was set to be at the 8th of November. We ended the meeting at approximately 9:30 PM however we had an unplanned quick meeting on the 7th of November where we talked about removing the stop words from the documents with hashing.

At the 8th of November we engaged in our second meeting at 8 PM where we have planned our first steps towards approaching the project.

We started taking the first steps towards completing the Search Engine Project where we have encountered small obstacles and overcame them. We met through an app called Discord and created some of the first classes which were Indexing, Documents, Words BST, Hash Table, Read_documents where we worked together on them and helped each other with the issues that we faced the meeting ended at approximately at 11 PM after we scheduled the next meeting that takes place at 13th of November.

On the 13th of November we started our meeting around 8 PM where we encountered an issue with document processing but we managed to resolve it then we had a discussion about it which made us do a to-do-list for the next meetings. We marked it as finished but open for editing on the coming days to enhance its efficiency , then we started working on indexing and indexing using bsts the meeting has concluded around 11:30 PM then planned another meeting on the 15th of November.

At the 15th of November we met and started working on InvertedIndexBST, InvertedIndexNode and frequency which had its challenges but Mohammed helped and solved the issues that we were facing and we managed to get it done on the same day and schedule another meeting at 17th of November. At the meeting that was agreed upon Mohammed suggested that we change the hashtable to coalesced hashtable instead on continuing to use chained hashtable which was simpler and more efficient. Then we scheduled the next meeting to be on the next day since some of us had an exam to get ready for. On the next day we met on discord to review the project's PDF file again to make sure we were on the right track then started on query processing which took us almost 3 whole days to overcome the issues that we encountered and complete it in that time period.

on the 22nd of November we had a meeting that lasted almost the whole day to put together all the classes, review its small glitches and make sure everything is working smoothly, from that we have discovered that document processing wasn't working as smoothly as we expected so Abdulaziz took on the task to rewrite the document processing classes and improve it and index. Khalid took on ranking class faced small obstacles which Mohammed helped him solve it.

Abdulaziz and Abdullah started working on the User interface and finished with class diagram.

Khalid and Abdullah took on the report.

https://docs.google.com/document/d/1HRPvLM0gv79xlhnbo5O2yiVXJMSDh0QqJxjrtRT_gvs/edit?tab=t.xpjqd5464h5w

YEAR

THU	FRI	SAT	SUN	MON	TUE	WED
	1	2	3	4	5	6
7	8	9	10	11	12	13
تم عقد ثاني اجتماع في تمام الساعة الثامنة مساءً. حيث وضعنا خطه مبدئية عن بدايتنا في المشروع و اتخاذ اوانل الخطوات. قمنا بكتابة البعض من الكلاسات و حل بعض المشاكل التي كانت عائق مبدئي. عبر منصة disocrd تم بداية انشاء وكتابة الكلاسات التالية: Indexing, Documents, Words, BST, HashTable, Read_documents	تم الانتهاء من ال document processing والابتداء بال indexing وال indexing using bsts والمنافسة عن بعض التفاصيل في ال document processing وكتابة ال to-do-list في التقويم للأيام المقبلة					
14	15	16	17	18	19	20
	انشاء كلاسات InvertedIndexBST, InvertedIndexNode		تم تحويل ال chained hashtable الى ال coalesced	بداية انشاء كلاس query processing ومراجعة		

UML :

