MY DIARY

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Mon (06-10-14): All our team members met and discussed on the project to take up. We decided to do Library Management as we found it more useful for the student community.

Sat (11-10-14):1-2 am

This is the first meeting of our group. We barely had any idea of what we were going to do. We saw some sample programs related to our project. We have decided to learn more about the project and distribute our work in the next meet.

Wed (15-10-14) Meet in the lab:

8:30-10:15 pm

Today, being our second meet, we have discussed about all the features we are going to include in our program. The basic function to be included is finalized as using a database in MySQL and linking it to C++.We have even discussed about creating a windows interface. We have also decided to use a search algorithm (on which we have to work further).We discussed about additional features to be include such as sending email on not submitting books in stipulated time. We have distributed our work for the first stage of submission.

And for the final coding, I have taken responsibility on best search algorithm to be used. I have searched for some tutorials in web regarding database creation and linking it to C++.I have also googled about search algorithms used by popular sites such as Google and Facebook (got to know that it is of much higher complexity and a different language)

At last finally we have distributed our work for our project. Hence forth I'll be working on search algorithm to be used in our program.

Thursday (16-10-14): 11-12:15pm

I started reading and analyzing some other types of searches in c++ and also how to create database using c++ (data structures).I tried writing simple program using data structures.

Sat (18-10-14):11:30pm-2 am

I and my team leader have finally compared our work on srs documentation, user manual and dairies. We have to make some changes in the user manual and so we decided to meet up on the following day.

Sunday (19-10-14): (2pm-8pm) all the members of our team met and combined our work and compared them to submit for the first stage submission.

Wed(29-10-14):08:30pm-10pm

Our team met and had discussed our further works, but, as our instructors have advised not to use Mysql we decided to use file handling and classes in our project.

Meet in the Lab on Wed (05-11-14) [08:15pm-09:45pm]

We (me and shrey) , have completed the basic structure of our program. I've declared the programs to be used in the program. The only thing now left is to write all the functions. I have tried to understand the Boyer-Moore search Algorithm to handle searching of strings, which would be of great use to our program.

http://en.wikipedia.org/wiki/Boyer%E2%80%93Moore_string_search_algorithm

http://www.codeproject.com/Articles/12781/Boyer-Moore-and-related-exact-string-matching-algo http://dev-faqs.blogspot.in/2010/05/boyer-moore-algorithm.html

http://www.geeksforgeeks.org/pattern-searching-set-7-boyer-moore-algorithm-bad-character-heuristic/

Sun(16-11-14):2pm-4pm

 We completed everything of the main function and only other functions are left. We also discussed about how to use simplecpp in our project , but of no big use because our project is much dependent on the display of required data which cannot be easily done by using simplecp . So, we dropped the idea of using simplecpp.

Tue(18-11-14):1-3am

 I spent a lot of time in debugging the main function and other functions related to librarian by checking them for each and every case possible. I tried to improvise my code.

Fri(21-11-14):9-10:30 pm

 I and my team met and tried to improve the code my using some other string functions like fflush(stdin) etc; we discussed regarding taking spaces in input and making a colorful output.

Sat(22-11-14):2-3pm

 I wrote a bare bone program for searching of books by patron for all the cases by using string operations like strcmp, strstr etc . Now the program is fully functional. Meanwhile Mugil is working on other searching function using hashing and parsing.

Sun(23-11-14):All most the whole night

We tried comparing my program and mugil's searching but ended in vain. There was no much resemblance in the search function and the variables required to be passed. So we decided to complete the function wrote by him and use the required variables.

Mon(24-11-14):3pm-11pm

Now, we have a fully completed program and a program which is yet to be completed. We started the documentation of the project and writing our project diaries. We have to choose one program to submit. We chose the program which is completed. If we complete the other program which is better than the present one. We will at least complete it before project evaluation.

Other References and sites:

Intro to Algorithms- Rabin Kaarp

Rolling Hash functions and Bloom filter

Nyhoff,Lary.ADT's,Data Structures and Problem Solving with C++

Prentice Hall,2005

Previous Project works

Hash functions and Block ciphers by Bob Jenkins

The Goulburn Hashing Function(PDF) by Mayur Patel

C++ Standard Libraray: The string Class

http://www.cplusplus.com/reference/

This site has been of great use to my project and my C++ understanding skills. I have also took help of many other sites as follow:

en.**wikipedia**.org/

www.**codeblocks**.org/docs/main_**codeblocks**_en.html

php.net/manual/en/function.**fread**.php

stackoverflow.com/