

Personal Diary

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D1-T5
Group 10 Slot 11

Meeting 1

Date: 1st October, 2014.

Time: 1730- 1745

Time Spent: 0.25 hours

Venue: Corridor

Attended by: Harshal Mahajan, Rohan Kumar, Aprajit Lohan

We formed our team that day. We then decided that in the vacation we will decide a few topics each bringing in at least 2 topics. We decided that the criteria for selection will be something different, with lot of learning.

Meeting 2

Date: 6 October, 2014.

Time: 2130- 2330

Time Spent: 2.00 hours

Venue: Rohan's Room.

Attended by: Harshal Mahajan, Rohan Kumar, Aprajit Lohan

This meeting, I had thought of the Database Management or Music Player as topics. We pitched in 4 different topics. They were Social Networking Site, Database Management System, a Pokémon game and a music player. We rejected pokémon game on the basis of the ease and not a challenge, thus inhibiting our learning process. The music player required an audio analysis which we found was really difficult for us. The Social Networking Site was rejected on consultation with our T.A. and Professor Supratik sir based on the complications and difficulty involved. Thus the topic Database management System was decided upon. We vaguely thought of various ideas we can implement in this project and the benefits we shall gain from this project.

Meeting 3

Date: 15 October, 2014

Time Spent: Rohan and Aprajit 1:35, Me 2 hours

Members attended: Harshal Mahajan, Rohan Kumar, Aprajit Lohan

Venue: OSL

Notable Stances and Comments: Healthy Discussion and good Progress.

The functionality and the features of the project were discussed upon in this meeting. Library Database Management Topic which was decided upon in previous meeting was extended and the extra features which could be added were discussed upon. The properties of the undertaken project were discussed and USPs of the project were decided. The meeting brought to light some complications which we might need to overcome regarding the graphic libraries. We all will be simultaneously studying the GTKmm GUI for C++ language. While Rohan spent time on understanding the installation of the graphics library, I studied on the syntax. Aprajit searched for any brilliant ideas we missed and was side by side studying their implementation. Later I being completely new to professional programming, felt the need for learning serialization of files in C++. However the targeted work was not completed yet due lack of understanding and more clarification is required.

We used various resources

Notable ones are:

1. <http://www.functionx.com/cpp/articles/serialization.htm>
2. <https://developer.gnome.org/gtkmm-tutorial/stable/sec-basics-simple-example.html.en>
3. <http://www.cse.iitb.ac.in/~cs101/project.html>

Meeting 4

Date: 16 October, 2014.

Venue: Rohan's room

Time: 2130- 2200.

Time Spent: half an hour. (Quiz next day)

Members attended: Rohan Kumar, Aprajit Lohan, Harshal Mahajan.

Notable Stances: It is really hard to install gtkmm on our own PC. Thus it is still agreed upon hagglingly by us.

I did a bit more research on graphics interface we the feasibility of each feature was discussed. We also discussed previous projects studied by Aprajit. I started with algorithm and implementation. I distributed work and then dispersed. I was assigned algorithm and try my best to study gtkmm.

References:

- 1) A.G. Ranade
- 2) Programming with gtkmm 2
- 3) <http://stackoverflow.com/questions/22736218/add-gtkmm-to-codeblocks-windows>
- 4) <https://wiki.gnome.org/gtkmm/MSWindows>

Meeting 5

Date: 17 October, 2014

Time: 2300 - 0330

Time Spent: Rohan and Aprajit 4:30, Me 4 hours

Members attended: Harshal Mahajan, Rohan Kumar, Aprajit Lohan

Venue: Rohan's Room.

Notable Stances and Comments: Healthy Discussion and good Progress.

I had my Pratham Satellite meeting, Hence I reached a bit late. I had researched about some constraints. My team members shed light on many more. However we still faced the problem of installing the gtkmm. I started making flowcharts and UMLs of the design. I studied gtkmm and serialization. And urged my team mates who didn't know to do so till Diwali end.

We used various resources. Notable ones are:

1. <http://www.cplusplus.com/doc/tutorial/>
2. <http://stackoverflow.com/>
3. <http://www.cse.iitb.ac.in/~cs101/project.html>

Meeting 6

Date: 18 October, 2014.

Time: 2200- 0230

Time spent: 4.5 hours.

Venue: Harshal's Room.

Members attended: Aprajit could not attend today's meeting because he has gone to his home town.

I had completed the implementation. We then started writing sample code. We sort out to forming different algorithms instead of us together, and the one more elegant was used. I started then typing the implementation and design in Project Report.

References:

- 1) <http://www.tifr.res.in/~cccf/index.php/interns/77-general/127-how-to-write-a-structured-project-report?tmpl=component&print=1&page=>
- 2) <http://www.microtoolsinc.com/Howsrs.php>

Meeting 7

Date 19/10/2014.

Time: 1100 to 1500 1800 to 2000

Time Spent: 6 hours.

Venue: Online.

Members attended: Rohan Kumar and Harshal Mahajan.

I and Rohan continued our job of typing out the report and SRS respectively. Rohan then later started with User Manual while I managed the sample code. We had made a collaborated folder on Google Drive on which we used to share our documents. We used to leave comments in the document so that the editor will improvise on them. Thus collaboratively we created each document, correcting each other's mistakes and thus making it better and better. I then typed my team Diary as well as the personal diary and completed the submission.

Meeting 8

Date 29/10/2014.

Time: 2030 to 2200

Time Spent: 1.5 hours.

Venue: OSL.

Members attended: Rohan Kumar, Aprajit Lohan, Harshal Mahajan.

We resumed typing code. We also installed gtkmm on Rohan's laptop and tried a few codes. The graphical window was learnt from Rohan Kumar by me and Aprajit. We also asked Aman our TA how to install gtkmm on windows and we tried the same. However due to unknown reasons we didn't achieve success and we were installing Linux in my laptop later and then tried installed gtkmm. We then typed some of the functions and then we dispersed.

Meeting 9

Date 1/11/2014.

Time: 2030 to 2130

Time Spent: 1 hour.

Venue: Rohan's Room.

Members attended: Rohan Kumar, Aprajit Lohan, Harshal Mahajan.

We decided that Rohan has gtkmm installed on his laptop which is enough. We tried installing on Windows but it caused a few problems and we gave up. Then I wrote search member add member and delete member functions. From today onwards our endsem has started so we decreased our pace. We decided that we will have our last meeting before endsem in OSL ie on 5-11-2014.

Meeting 10

Date 5/11/2014.

Time: 2030 to 2200

Time Spent: 1.5 hours.

Venue: OSL.

Members attended: Rohan Kumar, Aprajit Lohan, Harshal Mahajan.

Summary: We have completed modify book, delete book delete user and many other functions. We are thus short of the graphical functions and a few functions which require call by reference. We also typed some code for Buttons and windows and we completed nearly half part of member functions and classes till now. One notable stance that we came upon is gtkmm is not easy at all and will take a lot of time. We really wish to get some video tutorials, however we all ensure that quitting is not an option and we will do it with gtkmm as it is the best.

Resources used:

cse.iitb.ac.in/~cs101/ for syntax of classes and referred to constructors.

Self

Date 17/11/2014.

Time: 2000 to 2100

Time Spent: 1 hour.

Venue: My Room.

Members attended: Harshal Mahajan.

I tried to study gtkmm functions, However it was hard predicting the output without a compiler. I read the book but could not understand much.

Meeting 11

Date 20/11/2014.

Time: 1300 to 1500

Time Spent: 2 hours.

Venue: OSL.

Members attended: Rohan Kumar, Aprajit Lohan, Harshal Mahajan.

Summary: We decided it would be much easier to work in CSV format. We previously were using binary file format in 'dat' format. So we jumped to conclusion that CSV format will be used as it will be much easier to sort strings. We rewrote some of the functions and dispersed. I wrote file handling functions while Rohan was handling gtkmm.

Resources used:

for syntax of classes and referred to constructors.

SELF

Date 21/11/2014-22/11/2014.

Time: Not recorded as lot of breaks were taken and whole day active.

Time Spent: 5 hrs

Venue: My Room.

Members attended: Harshal Mahajan.

I started writing functions while I coordinated with teammates about their various work

SELF

Date 23/11/2014.

Time: 1500-2000 (with a few breaks)

Time Spent: 5 hrs

Venue: My Room.

Members attended: Harshal Mahajan.

I started writing the Project Report and SRS document. I read through the gtkmm code typed by Rohan and started documenting accordingly. I started making a few UMLs too.

SELF

Date 24/11/2014.

Time: 2000-2200 (with a few breaks)

Time Spent: 2 hrs

Venue: My Room.

Members attended: Harshal Mahajan.

I completed User Manual, did some final touches to the documents to be submitted. I then went for dinner.

Meeting 11

Date 24/11/2014.

Time: 2300 to 2330

Time Spent: 0.5 hours.

Venue: OSL.

Members attended: Rohan Kumar, Aprajit Lohan, Harshal Mahajan.

Summary: Today was our last meeting. We ran our project code and collected our project diary and started to convert to pdf.

Resources used:

for syntax of classes and referred to constructors.