

BIITmaps

Roll no. 140260006

Project Diary

1st October: 12:30pm to 1:15 pm

Location: Lecture Hall Complex (corridor outside LA101).

Members present: Sheetal, Deepak (via mobile) and Chetan (also via phone).

Objective: Formation of Group.

Discussion: Open invitation to Deepak and Chetan for forming a group for making the CS101 project. Also, important information regarding project conveyed by Sheetal to the rest.

Outcome: Group successfully formed and registered.

6th October: 2:45pm to 4:30pm

Location: Hostel 15 Mess.

Members present: Sheetal and Deepak.

Objective: Discussion regarding topic of project.

Discussion: Contemplation regarding what to do project on.

Sheetal suggests three probable ideas: bank maintenance, scientific and graphical calculator or mapping software.

Deepak's opinion that all three ideas are practically feasible and decide that the order of preference: maps, then bank and finally calculator.

Outcome: Chetan's opinion awaited.

6th October: 9:30pm to 10:15pm

Location: Hostel 15 Sixth floor.

Members present: Sheetal and Chetan.

Objective: Discussion regarding finalisation topic of project.

Discussion: Contemplation regarding what to do project on continues.

Sheetal suggests the order of preference: maps, then bank and finally calculator.

Chetan finds the order perfect. Maps almost finalised.

Previous years' projects show our idea of maps ingenious and unique, something never attempted before.

Outcome: Discuss with TA (Manish Ahuja) and finalise idea on project, As soon as possible!

7th October: 10:30pm to 10:50pm

Location: Hostel 15 Sixth floor.

Members present: Sheetal and TA(via mobile).

Objective: Discussion regarding submission of topic of project.

Discussion: Sheetal asks if map seems to be a feasible idea. TA finds the choice of topic pleasantly surprising and Out of the BOX!

Gives the idea two minutes of thought and suggests that if we are sure, we can proceed with this amazing idea.

Outcome: Maps finalised.

9th October: 9:50pm to 10:15pm

Location: Hostel 15 Sixth floor.

Members present: Sheetal and Chetan.

Objective: Division of work, idea of “divide and rule” in a good way.

Discussion: Deepak is assigned work regarding problem analysis and research.

Sheetal decides to develop draft algorithm and look after final formatting and revision.

Chetan starts working on SRS.

User manual shall be a collective effort to be accomplished on 11th October.

Map to be divided by some means for ease of accessing locations.

Outcome: Sheetal starts making calls.

11th October: 10am to 10:20am

Location: Hostel 15 Sixth floor.

Members present: Sheetal and Chetan.

Objective: Completion of draft User Manual, idea of grid and legend.

Discussion: Chetan declares that the content is ready. Sheetal takes up task of editing and finishing the report.

Grid easiest way thought of dividing map.

Outcome: One part done.

13th October: 8:30pm to 10pm

Location: CS lab (NSL annex.)

Members present: Sheetal, Deepak and Chetan.

Objective: Problem Analysis, idea of three means of transport.

Discussion: Ideas listed in point form. List of features decided upon. Half of the typing also accomplished by smart division of workload.

Three options included for increasing flexibility.

Outcome: Rest half left on Deepak to complete.

14th October: 9:15pm to 10:45pm

Location: Hostel 15 Mess.

Members present: Sheetal and Deepak.

Objective: Project report Ready, Name!

Discussion: Deepak hands over draft project report to Sheetal for final editing.

Sudden realisation that name of project not decided or thought upon...overlooked completely.

“BIITmaps” suggested by Chetan over mobile message.

Outcome: Work going ahead smoothly.

16th October: 2pm to 4:15pm

Location: Hostel 15 Mess.

Members present: Sheetal, Deepak.

Objective: Name finalisation, Idea of grid.

Discussion: Consensus that name is appealing.

Sheetal and Deepak do lot of brain-storming for map and graphic related issues.

Idea of pixels comes up.

Map to be represented as a two dimensional array, for computational purposes in the program.

Outcome: Draft logic ready. Name incorporated in to ready drafts.

17th October: 9:30pm to 11:30pm

Location: Hostel 15 Sixth floor.

Members present: Sheetal and Chetan.

Objective: Deadline nearing, problems regarding SRS document and coding.

Discussion: Chetan and Sheetal discuss what all to be included in SRS document.

High degrees of overlapping in three documents, but all have a sense of completeness which adds great value to the project.

Decision to hurry. Content of SRS ready, but in highly raw form.

Outcome: Sheetal takes up completion of SRS. Chetan asked to work on starting the coding part.

19th October: 9:30am to 11:15am

Location: Hostel 15 Sixth floor.

Members present: Sheetal, Chetan and Deepak(via Google Hangouts).

Objective: Submission!

Discussion: Sheetal asks Chetan to convert all documents to pdf.

Deepak takes up coding. Sheetal completes final formatting.

Outcome: Finally, some success!

20th October: 8:30pm to 10pm

Location: CS lab (NSL annex.)

Members present: Sheetal, Deepak and Chetan.

Objective: Functions to be included, tumtum?

Discussion: Tumtum option seems to be giving problems.

Chetan, who started coding on route via tumtum, suggests to keep a different option for tumtum altogether. Idea accepted. Chetan takes up work of tumtum part of code.

Sheetal and Deepak make a list of tentative functions. It is decided that we both would start collecting 'raw materials' that would be required in the project, like map, logo, graphics etc over the Diwali vacations.

Outcome: Beginning of program design.

29th October: 9:30pm to 10pm

Location: CS lab (NSL annex.)

Members present Hostel 15 Mess.

Members present: Sheetal, Deepak.

Objective: Logo finalised, Finding map is a BIG problem.

Discussion: Deepak shows Logo designed by him for BIITMaps. Consensus that logo looks really good.

Problem of finding feasible map is discussed, although no solution is found.

Deepak says he would work on graphics (display of menu, map, user interface).

Sheetal starts working on maze solver code (based on coding in a previous CS lab assignment).

Outcome: Logo ready. Maze solver and Graphics look manageable. Map URGENTLY needed.

31th October: 8:30pm to 9:30pm

Location: Hostel 15 Sixth floor.

Members present: Sheetal and Chetan.

Objective: Progress in tumtum, MAP?

Discussion: Chetan informs that data part of tumtums (filling data in arrays...) is done. Logic part of code is still left.

Sheetal asks Chetan to simultaneously work on finding a MAP.

Outcome: Chetan takes up completion of finding a map.

2nd November: 9:15am to 10am

Location: Hostel 15 Sixth floor.

Members present: Sheetal and Chetan.

Objective: MAP found... but with problems associated.

Discussion: Sheetal informs that maze solver is ready for simple 0 and 1 maze. Combining that with data shall do our work.

Chetan finds a map, however with two problems: Points are not marked, and it seems impossible to open .jpeg file in Code::Blocks.

Outcome: Work going in right direction, but map needs work to be done on it.

4th November: 4pm to 4:45pm

Location: Hostel 15 Mess.

Members present: Sheetal, Deepak.

Objective: Directions and Tumtum part done, what next?

Discussion: Consensus that map is becoming a headache.

Chetan not present, but has finished part of coding assigned to him and has mailed it to both of us.

Sheetal hands in direction 'getter'.

Deepak asked to continue work on graphics. He says text is being displayed, but formatting and button preparation is pending.

Chetan would be later asked to correct and complete map, using photoshop.

Outcome: Two functions ready, but of no use without MAP.

9th November: 8:30pm to 9pm

Location: Hostel 15 Sixth floor.

Members present: Sheetal and Chetan.

Objective: Work of MAP!

Discussion: Sheetal informs two functions are complete and ready.

Chetan is asked to complete all map related work.

Outcome: Hope that problem of map gets resolved.

16th November: 10pm to 11:30pm

Location: Hostel 15 Mess.

Members present: Sheetal, Deepak and Chetan.

Objective: Moving towards a solution.

Discussion: Sudden realization that logo(also in .jpeg format) cannot be displayed!

Sheetal exclaims, "BIITMaps is failing..."

An idea comes simultaneously to everyone! We could use .bmp(bitmap!!) file. It can be displayed using CImg header file.

Great PERSISTENT Problem resolved!!!

Deepak suggests, after studying various graphics libraries, that graphics.h would be ideal. It is an old, simple but elegant way of displaying data.

Chetan continues working on map using photoshop, and is asked to develop nearest Landmarks function.

Outcome: BIITMaps not a failure after all !

18th November: 8:30pm to 10pm

Location: Hostel 15 Sixth floor.

Members present: Sheetal, Chetan and Deepak.

Objective: MAP done, Work on menu and input!

Discussion: Chetan informs two map is complete and ready for use.

Deepak says only clicked input (one key or mouse) is allowed.

Deepak makes menu, exit interface and startup message.

Sheetal works on input within options of main menu.

Chetan asks Sheetal to fix bugs in nearest Landmarks function. He helps in deciding in what format and exactly what text should be displayed.

Outcome: Nearing end.

20th November: 8:30am to 1pm

Location: Hostel 15 Sixth floor.

Members present: Sheetal, Chetan and Deepak.

Objective: Help, Hangouts

Discussion: Deepak asked to work on Hangouts function.

Sheetal works Help.

Chetan works on preparing lists of input (time, source, destination...).

Running program generated.

Outcome: End of Coding Finally.

20th November-21th November: 10:30pm to 3am

Location: Hostel 15 Sixth floor.

Members present: Sheetal and Deepak.

Objective: Interfaces

Discussion: Deepak and Sheetal Together make interface proper and user-friendly.

Outcome: Some problems with I/O operations rectified.

22th November: 11:30am to 3pm

Location: Hostel 15 Sixth floor.

Members present: Sheetal and Chetan.

Objective: Documentation

Discussion: Non-coding work left is handled.

Sheetal updates all user related documents, and handles formatting of code.

Chetan converts all ready documents into proper format file(.pdf) and zips them.

Outcome: Editorial 'Paper Work' done.

23th November: 9:30pm to 11pm

Location: Hostel 15 Sixth floor.

Members present: Sheetal, Chetan and Deepak.

Objective: Test run, scanning each other's work, finalisation.

Discussion: All run the final code on their respective systems and try to locate any error.

Many bugs are rectified.

Code is finalised. All trial run yield proper results.

Each Team member has sense of satisfaction. Team leader Sheetal applauds everyone's efforts. Sense of calm on official completion of CS101 Project.

Outcome: Project successfully COMPLETED !

Total Hours put in (including individual and group work, excluding break time in group discussions) – 22.5