

PROJECT DIARY

CS 101 GROUP 17

PROJECT TOPIC-SUDOKU GENERATOR AND AUTOSOLVER

DATE: 2th October , 2014

Formation of our group. Group Members include Pranav Damani, Yash Dhoble, Yash Bhagat and Vikas Sutrakar.

Team leader is Pranav Damani.

DATE: 7th October ,2014

Finalization of our project topic. Our program would include a Sudoku Puzzle Provider and an Autosolver.

DATE: 11th October , 2014

First team meeting: We discussed about our project and its implementation.

DATE: 12th October , 2014

Second team meeting. We distributed work equally into sample coding and documentation for the first phase submission of the

project. Yash Bhagat and I took up responsibility of writing the sample code for the program whereas Yash Dhoble took up the work of documentation. We started working on the project.

DATE: 16th October, 2014

Yash Bhagat and I looked at previous year programs of Sudoku. We also referred to some books and online sources. We started writing the sample code.

DATE: 17th October, 2014

Third team meeting. The three of us (Vikas Sutrakar being absent) met in OSL during lab. We discussed algorithms and exchanged work done until that time.

The approach on graphics was discussed but we couldn't reach any conclusion. So we would handle it in the second stage of submission.

DATE: 18th October, 2014

Yash Bhagat and I completed writing the sample code.

DATE: 19th October, 2014

Fourth team meeting. All of the required files were completed.

The first stage was submitted.

POST STAGE 1 SUBMISSION

DATE: 20th October, 2014

Fifth team meeting.

We decided that for stage 2 it was necessary for us to try and finish early as compared to our stage 1 submission as a couple of us had to leave before the 28th. We decided that as graphics was new for all of us we would work together on this. I assigned individual work of watching graphics videos to everyone. I told Yash Dhoble to go through allegro while Yash Bhagat and I went through SFML. (Vikas was absent again and his first attendance was still awaited)

DATE: 26th October, 2014

Sixth team meeting.

We met to discuss what graphics library was to be used. As the end semester exams were near we knew that majority of the work had to be done after the examinations were done. We decided to keep the graphics work for later as all the libraries seemed complicated for first time programmers. Yash Bhagat and I took up the work of programming.

DATE: 27TH October, 2014

Yash Bhagat and I met up in his room to discuss the outline and write a rough code. We discussed how exactly we would interlink both the

autosolver and the generator and the various functions that would be needed.

DATE: 29TH October, 2014

We started writing the functions that were needed in our code. Their testing however wasn't possible till we actually had our graphics part completed. As our end semester examinations were due from the 1st(chemistry paper) and would go on till the 15th except the cs 101 paper we decided that this would be our last meeting before the exams.

DATE: 14th November, 2014

Seventh team meeting.

We got a 2 day break before our next paper. We decided to watch Professor Ranade's lectures on simplecpp.

DATE: 17th November, 2014

Eighth team meeting.

We decided that Simplecpp would be the ideal graphics library for our project as it would be easy to learn with the help of the video lectures on the cse website. We went through the 5 lectures provided to us on the site.

DATE: 18th November, 2014

Ninth team meeting.

We worked out a major chunk of the graphics code. The 9x9 square along with the 3x3 smaller squares were constructed with different colours being used to show the difference as needed by the Sudoku game. The submit, solution, reset and 1-9 buttons were created. We tried using the keyboard as input for the numbers however the program failed to run and hence we decided that the mouse was all we could use.

DATE: 19th November, 2014

Tenth team meeting.

The mouseclick function was introduced into the program and it was used to interlink our graphics code which was in our main function to our autosolver, file opening code, etc. A problem that arose was that the file opening wasn't taking place and the *fp pointer kept giving a null address. We had to manually input a string to check our program.

DATE: 20th November, 2014

Eleventh team meeting.

We got the news that the submission had to be done on the 23rd and luckily we were on track to finish by then. We spoke to our TA regarding the file opening problem. Our code was almost complete and only the running and troubleshooting was left.

DATE: 21st November, 2014

Twelfth team meeting.

Our TA gave us the exact solution to the file problem. We carried out the troubleshooting and the program worked well. We encountered a garbage value problem however that too was sorted out. The program was complete. We decided to take a day off to sit and prepare for the CS101 exam which was on the 23rd of November.

Vikas Sutrakar made his first appearance and tried showing concern about the project however the work had already been completed and we told him to speak to the TA/Prof. regarding the situation.

DATE: 23rd November, 2014

Yash Dhoble worked on the SRS and Project Report while Yash Bhagat and I wrote the comments.

DATE: 24th November, 2014

The project was submitted with all the required documents.