

# Team Project Diary

14<sup>th</sup>, October 2014  
Venue - Hostel mess  
Time Spent - 3 hrs

All the team members discussed for the first time about type of sudoku solving in and what utilities the program will have. We discussed various functions and rules of their implementation in the main sudoku program. We also came to know about many interesting facts about sudoku during our research work on it.

17<sup>th</sup>, October 2014  
Venue - Cs lab and later in computer lab of physics department.  
Time Spent - 4 hrs

We discussed about the documentation part of stage 1 and algorithm of sudoku solver. We subdivided the work among ourselves. Decided to use the ez windows graphic library for the program and Tanmay decided to start working on the SRS document of stage 1. Together we saw videos on you tube for finding the solutions of a sudokus.

18<sup>th</sup>, October 2014  
Venue-computer lab of physics department  
Time Spent - 3 hrs

Priyash has done research on other sudoku problems online and algorithm of backtracking for solving sudoku.

Prashant is keeping track of the work of every individual, helped them to complete their work before the deadlines and studied about the graphic library.

Tanmay has done the SRS documentation of the project.

Manish tried to complete the with the help of the other team members project report.

Review of each others work.

25<sup>th</sup>, October 2014  
Venue - Respective Homes

Time Spent - 2+3 hrs.

Today we gave a final check to every document that we had to submit for the stage 1 of project submission. we also began making the code for the validation of sudoku . we further decided about what would be the outlook of our project. Priyash wrote functions for checking whether or not an element is present in any row or column or box. At last after verifying everything we submitted the project for stage 1.

27th,October 2014

Venue - Prashant' room

Time Spent - 2+1 hrs.

Today Priyash displayed the whole code written by him about how the program will validate the genuinity of the sudoku. It had some errors so we rectified the code together and also made some changes in the program and rearranged the positioning of various functions.

29th,October 2014

Venue - SAC Corridor

Time Spent - One and Half hour

Today we completed the validation algorithm. Priyash initiated the discussion with the team on the sufficient and neccessary conditions for having a unique solution for a given sudoku. We also did some research work regarding how a sudoku solver can be created. Prashant gave the idea to combine the solving part with the validation part so that the user would have a choice whether to solve or only check the input sudoku and Tanmay started working on it.

17th,November 2014

Venue - Manish's room

Time Spent- 2 hrs

We completed the debugging of the final sudoku algorithm by putting some cout statements in the main part of the algorithm. Prashant found that a return statement was left inside the loop which created all the mess and the error was rectified.We ran the code with a number of possible inputs and our program gave the correct output and performed as was required.

20th,November 2014  
Venue - Hostel 15's Mess  
Time Spent - 2+3 hrs.

Today we had a meet with a CS TA to remove our doubts regarding the use of graphics and he also helped us in understanding the concepts and functions of simple cpp. so we finally decided to use simple cpp instead of ez windows.

Prashant after learning all the graphics from the book a.g. ranade combined the main program with the graphics . we encountered a lot of problems and made some necessary changes with the help of Priyash. We further shifted the display of the sudoku on windows to the canvas. We created several icons on the canvas which would help the user utilise our program easily.

23rd,November 2014  
Venue - New Systems Computer Laboratory  
Time Spent - 2+2 hrs

Today our final program was showing wrong error messages hence Prashant and Priyash debugged the whole code and rectified the error. Later it was found that the code was not running just because of the wrong placement of the counter. Additionally we also modified the srs and the project report.

Prashant made some changes in the graphics part of the program and discussed with everyone exactly how the program will work.

24th,November 2014  
Venue - Priyash's room  
Time Spent - 3 hrs

We gave a final overview to everything that we had to submit. Priyash created the user manual along with Tanmay which would explain the user about our program features and instructions. Prashant made some minor changes in the error messages that need to be printed according to the user's convenience.