**Project Diary**

**Group 20**

**Meenakshi Rawat-145280015**

**Shreya Singh – 145280020**

**Jaydeep Sengupta-145280025**

**Soumyajeet Nag-145280030**

**07/10/2014 - 5:45 pm-7:15 pm**

All the members of our team meet for the first time for the project. We elected Meenakshi as the team leader.

We all proposed our topics for the project. I proposed advanced Tic Tac Toe, Menakshi suggested Tetris or some statistical software, Jaydeep Stock Exchange and Time Series Analysis with forecasting was suggested by Soumyajeet as topic.

We decided to make some research about the topics, what could be the done and problems we could face using those topics.

**11/10/2014 - 7:30 pm-8:00 pm**

Topic of the project is finalized as Time Series analysis and forecasting by taking GDP as an example. We discussed the various components of time series and enlisted the topics we’ll work on.

**17/10/2014 - 8:30 pm-9:30 pm**

Discussed what would we write in SRS and Project Report

• In SRS we decided to explain the purpose of the project that will also contain brief description and outline of Time Series and its use.

•Distribution of work was done. Meenakshi took charge of SRS documentation, Project Report by me and Jaydeep and function call and its implementation by Soumyajeet. We decided to submit all the project documents by 19th evening.

**18/10/2014 - 4:30 pm-6:00 pm**

Since everyone was getting some difficulties in handling their assigned tasks so we helped each other and after a lot of discussion all the documents are finally prepared and will be submitted by the team leader by tomorrow as decided.

**21/10/2014 -5:00 pm- 7:00 pm**

In this meeting we discussed how we will solve the irregular and error component of time series as code for solving the other two components namely trend and seasonal component will be made. After a lot of discussion and trying to get or make code for irregular component we could not managed to get it we decided not to solve for the irregular component separately and it will be contained in the error part.

**24/10/2014 – 12:30 pm-3:00 pm**

We start working on different functions of our project. We discussed on what options we have for making code for curve fitting. We decided to make function for fitting polynomial of any degree. Meenakshi will be working on code for moving average for trend part .Since we have to include graphs also in the project so I and Jaydeep tried to search codes for the same.

**27/10/2014 -6:00 pm-8:00 pm**

In this meeting we tried to understand how we can plot graph or make code for the same. We are facing difficulty in making code for plotting graph in C++. We have got a header file **koolplot.h** which can be used for plotting graph and are trying to understand how to use the same but are facing difficulty in the same. Code for moving average for trend is half done.

**31/10/2014 -8:00 pm-10:00 pm**

Code for moving average is done. Jaydeep and shreya are working on codes for graph but they are finding it difficult and are trying to get the solution.

**02/11/2014 -2:00 pm-4:00pm**

In this meeting we decided to make separate codes for linear and exponential curve fitting instead of making code for fitting polynomial of any degree as we find difficult to get code for it. We tried to make codes for the same but were not able to get proper code so we decided to work on it independently and get the code as early as possible before our next meeting.

**05/11/2014 -5:00 pm-6:30 pm**

Coding for linear and exponential curve fitting is almost complete. In this meeting we worked on code for seasonal indices i.e we are working on ratio to moving average method.

**07/11/2014 -3:00 pm- 5:00 pm**

Working on code for quadratic curve fitting .We tried including files for curve fitting but it is creating problem.

**09/11/2014 -3:00 pm-4:00 pm**

Checked all the functions we have till date, debugged them and make them run properly.

**23/11/2014 -6:30 pm-9:30 pm**

Code for error component was made by Shreya and Jaydeep and Meenakshi and Soumyajeet tried to make graph in C++ but now the graph section will be done using files in C++ by them.

**24/11/2014 -10:00 am-8.00 pm (with 2breaks of 30 min)**

Wrote main function of the project, gathered all the functions together and debugged all the errors, checked whether the code is working properly. Checked for SRS documentation, project diary, project report and user manual.