

CS101 GROUP DIARY

Group no. 8, Slot : 6B

HARIT KUMAR

PANKAJ GANGWAR

AMRITESH SHARMA

SIDDHARTH KSHATRIYA

Meeting no: 1

Date : 10th Oct 2014

Time: 7:30 pm to 8:40pm

Duration: 1Hr & 10 mins

Venue : Hostel 5 , Computer Room

Everyone Present

- A Rough idea about the software was pitched by every team member.
- There was a big discussion on the use of graphics and the outlook of the calculator
- Team decided to feature various advanced functions in the software like Matrices operations, Calculus: Integrator and Differentiator, 2D Graph representation.
- All team members decided to research on the various functions and figure out the algorithm and discuss it in the next meet .

Meeting no: 2

Date: 12th Oct 2014

Time: 9:00pm to 10:20pm

Duration: 1 hr 20 mins

Venue : Hostel 5 , Computer Room

Everyone Present

- Algorithm of Matrices were discussed by pankaj. He explained the addition, subtraction, multiplication, and inverse of the matrices.
- Algorithm for Determinants were also discussed.
- The further algorithms were decided to be discussed in the later meetings.

Meet no: 3

Date: 14th Oct 2014

Time: 8:30pm to 10:00pm

Duration: 1 hr 30 mins

Venue : OSL

Everyone Present

- Discussion about the working of the calculator was being thought. Our TA Vaibhav Tripathi suggested that we should use Infix to postfix algorithm which helps to take the input expression as a string and converts it in a postfix string which obeys BODMAS precedence.
- Vaibhav taught all of us how the infix to postfix algorithm works.
- It was finalized that we should use this algorithm for the arithmetic input operations for our software which we hoped will work best.

Meet no. 4:

Date: 16th Oct 2014

Time: 9:00pm to 11:00pm

Duration: 2hrs

Venue : Hostel 5 , Computer Room

Everyone Present

- Pankaj presented his code for matrices. There were a few bugs but were resolved in a few attempts and the program was running successfully.
- Siddharth spoke about the SRS document.
- Amritesh and Harit had worked on the algorithm for quadratic equation and presented the code.
The code only worked for real roots.
- We all discussed and made the program work for real as well as complex roots.
- Team also decided to work on graphics if time permits.

Meet 5:

Date: 17th Oct 2014

Time: 9:00pm to 12:00pm

Duration: 3hrs

Venue : Hostel 5 , Computer Room

All Present

- Discussed about the structure of the calculator.
- Discussed on Classes and objects and structures.
- Siddharth presented the code for infix to postfix algorithm. He made it applying classes. It used `<cctype>`, `<cstring>` library. The code worked fine but it was giving wrong outputs for expression having decimal points.
- Pankaj wrote a code for Definite Integration and Differentiation by using Numerical Methods. It worked for some particular functions like trigonometric,, exponential, algebraic, logarithmic, etc.

Meet 6:

Date: 16th Oct 2014

Time: 10:00pm to 3:00am

Dur ation: 5hrs

Venue : Hostel 5 , Computer Room

Everyone Present

- Finalized SRS document: Siddharth had wrote most of the part of the SRS doc. Amritesh and Harit helped in making the Diagram, and finalizing the key(buttons) list and the structure of the calculator.

- The code for infix to postfix for decimal value was presented again and the problem of decimal point was brought to notice. After much discussion, the problem was resolved by adding few more conditions in the code.

- Pankaj and Siddharth wrote a code for evaluation of the postfix string. It worked succesfully in a few tries. It worked only for arithmetic expressions.

-It is a challenge for us to make the code work for other functions as well, so that it works like a normal calculator accepting any function in the input string and evaluating it simultaneously.

- Amritesh and Harit discussed about the challenges about using the graphics. They talked about simple cpp, gtk and Qt. It was decided that we will work on Qt.

Meet 7:

Date: 21st Oct 2014

Time: 10:00pm to 1:00am

Dur ation: 3hrs

Venue : Hostel 5 , Computer Room

Everyone Present

- Pankaj told us to study about file handling and uses of classes if get free time during holidays.
- Amritesh was supposed to focus on graphics and some interconversion function.
- Siddharth was supposed to focus on Boolean algebra.
- Harit was also supposed to work out on some functions like Inverse Trigonometric Function.

Meet 8:

Date: 02nd Nov 2014

Time: 9:00pm to 11:59pm

Duration: 3hrs

Venue : Hostel 15 , Mess

Everyone Present

- This is our first meeting after coming back from Holidays.
- All team members seems to be enthusiastic and energetic.
- All decided to do some work on project as after that our endsem are coming.
- All are expected to do enough work before the terror of endsem blow up.

Meet 9:

Date: 15th Nov 2014

Time: 08:00pm to 10:00pm

Duration: 2hrs

Venue : Hostel 5 , Computer Room

Everyone Present

- I and Amritesh are almost free as our endsem are over except one CS101.

-But Siddharth and Pankaj are busy in preparing for endsem. So we both decided to work on project our team get freed of endsems.

-I and Amritesh focussed on some more features which we can add in project like calculating hyperbolic functions.

Meet 10:

Date: 18th Nov 2014

Time: 10:00pm to 01:00am

Duration: 3hrs

Venue : Hostel 5 , Computer Room

Everyone Present

-All our team is ready to stay intense focussed on project in these free days as we all don't have any work except CS101 project.

-We all do coding in different perspectives to complete project as early as possible.

-Pankaj work out on complex numbers.

-Amritesh work out on permutation .

-Siddharth work out on statistics.

-I work out on trigonometric functions as there were some bugs in program.

Meet 11:

Date: 19th Nov 2014

Time: 09:00pm to 02:00am

Duration: 5hrs

Venue : Hostel 5 , Computer Room

Everyone Present

- All team members are busy in completing project .
- All start coding in order to complete given tasks.
- I work out on inverse calculations.
- We all separately do coding in our hostels in the day time.

Meet 12:

Date: 21th Nov 2014

Time: 09:00pm to 03:00am

Duration: 6hrs

Venue : Hostel 5 , Computer Room

Everyone Present

- We all code our program in our respective hostel rooms.
- We all are almost on completion of our project .But the real issue in front of us is to merge all codes programmed by team.
- All together made efforts to merge all the codes in a single program and we have little pain in doing the same.

Meet 13:

Date: 22th Nov 2014

Time: 09:00pm to 05:00am

Duration: 8hrs

Venue : Hostel 5 , Computer Room

Everyone Present

We are almost on completing the project but some bugs were really annoying us .But with the help of our friends we overcome to that.We are going to add new features if we find.

Meet 14:

Date: 24th Nov 2014

Time:08:10am to 01:30pm & 03:00pm to 11:59pm

Dur ation: 14hrs

Venue : Hostel 5 , Computer Room

Everyone Present

Today we debugg our whole program and merge in a final program and we face alot of difficulties but at last we overcome all of them.

Siddharth and Harit made user manual and project report and Amritesh ,Pankaj still trying to finish the finalized project.

At 11:55pm we want to summit our project so till that time we were engaged in finishing project.