Ideation Document

Team Name: Code Breakers

Team Size: 4

Team Members:
1. Anupriya Singh
2. Nidhi Wadhwa
3. Jyoti Pandey
4. Ronika Das

Problem Statement title: Method Trace Analyser

Scope of work in the opted problem statement:
The team has developed a GUI as front end where the user will enter the file name, one for passing case and one for failing case. After the files names have been entered,the trace files are formed and converted to respective log files. Log files are read to perform various functionalities of Method Tracer namely, detection of exception, stack trace, execution time of methods and count of number of times a method is invoked, are shown as output.

Technologies/Platform/APIs planned to use:
- Eclipse Jee Photon
- WindowBuilder
- Open JDK with OpenJ9

The role of each team members:

1. Anupriya Singh:
- Primarily involved on working on the, goal, "Compare two trace files: one from failing and passing case each and find out the anomaly".
- Used Xtrace commands to generate trace files (.trc) and convert it into log files with the help of Command Prompt.
- Developed a java code to read the log files line by line and determined whether or not the exception is present or not.
- Displayed anomalies in the stack trace files
- Integration of all the modules into single code
- Managed and coordinated the working of other members

2. Jyoti Pandey
- Designing a Graphical User Interface(GUI) for Method Tracer using WindowBuilder
- Integration of all the modules into single code
- The GUI consists of text fields etc and is the part where user can interact.
- Worked on writing code to print commands directly in the command prompt.
- Worked on running the appropriate java file from the GUI

3. Nidhi Wadhwa
- Primarily worked towards the goal, "Parse one or more trace files and create a tabular view for the number of times each method is invoked". Calculated the count of number of times a method is invoked in class and displayed the same in a tabular view
- Helped in calculating and displaying entry time , exit time and execution time of each method in the Java file
- Further, displayed which of passing or failing case takes longer to execute and by how much

4. Ronika Das
- Involved in generating stack trace of Java files and suggesting ideas to implement the same
- Suggested ideas and helped in implementing the module to detect exception /anomalies in the generated log files
- Integration of all modules into a single code