Method-trace Analyser

Problem Statement - 2

Team Name

JavaMonks

Problem Statement: Method-trace Analyser

An application to assist the developers in debugging.

- This problems is designed with a view to simplify the debugging and also provide clear graphical view of more than two log files.

- This application has four major modules:

    - Code flow graphical view

    - Method time invocation

    - Method executed number of times

    - jStackTrace Anomalies

- Each module will show the table as well as graph in order to make comparison more easier.

Role of each Team Member

Manjot Singh Sidhu

Christ Deemed to be University, Bengaluru (BTech CS Semester 1st)

- Solution Architecture, Design and Development
- Project Lead

Harsimran Kaur Sidhu

REVA University, Bengaluru （MCA Semester 5th ）

- UI/UX Design and Development
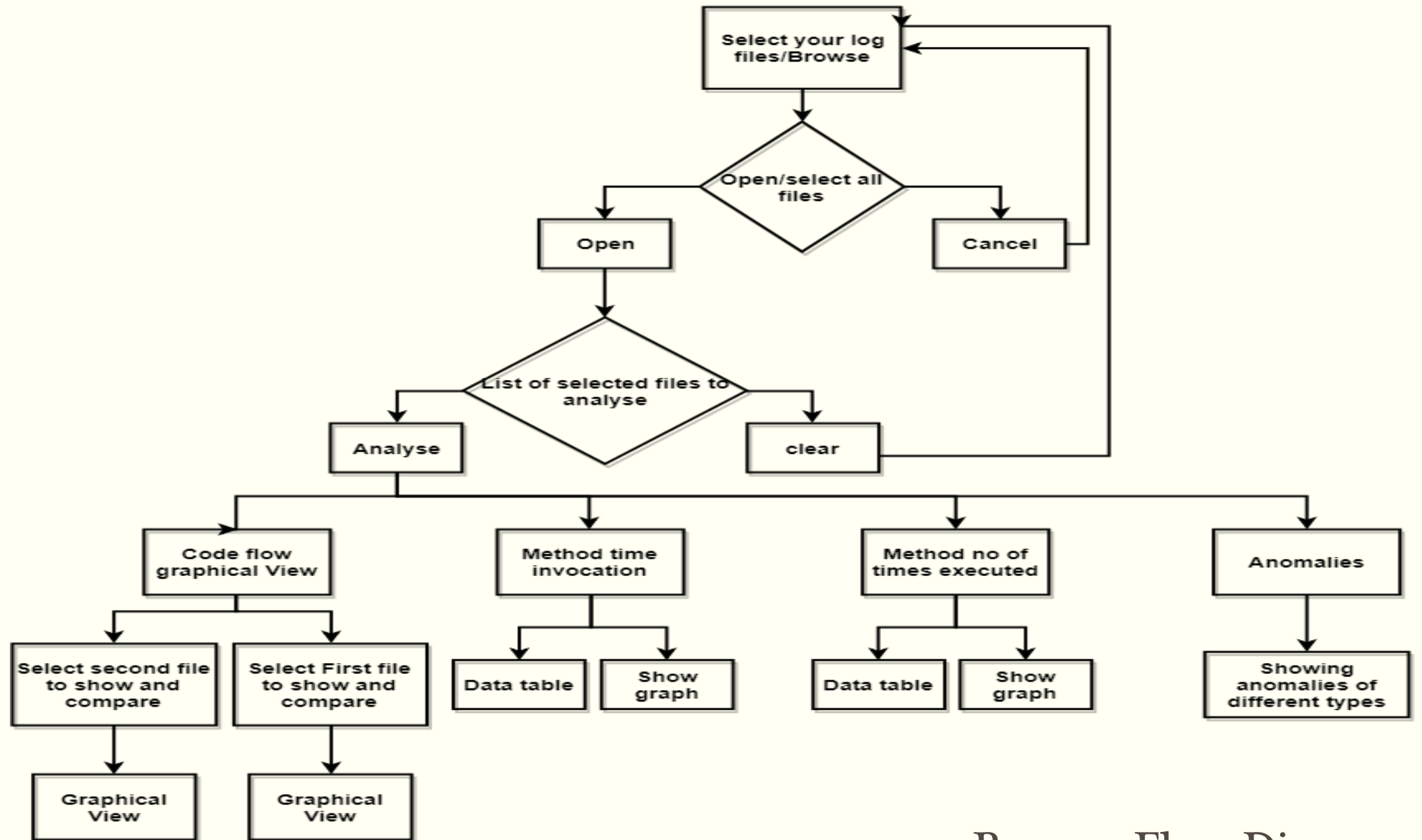- Testing
- Documentation, PowerPoint Presentation

Tools/Platform/APIs used

Dependencies/APIs:

- org.apache.commons (commons.io) used in converting files to string

- com.github.vlsi.mxgraph (jgraphx) for rendering codeFlow

- org.jfree (jfreechart) for rendering graphs for analysed tables

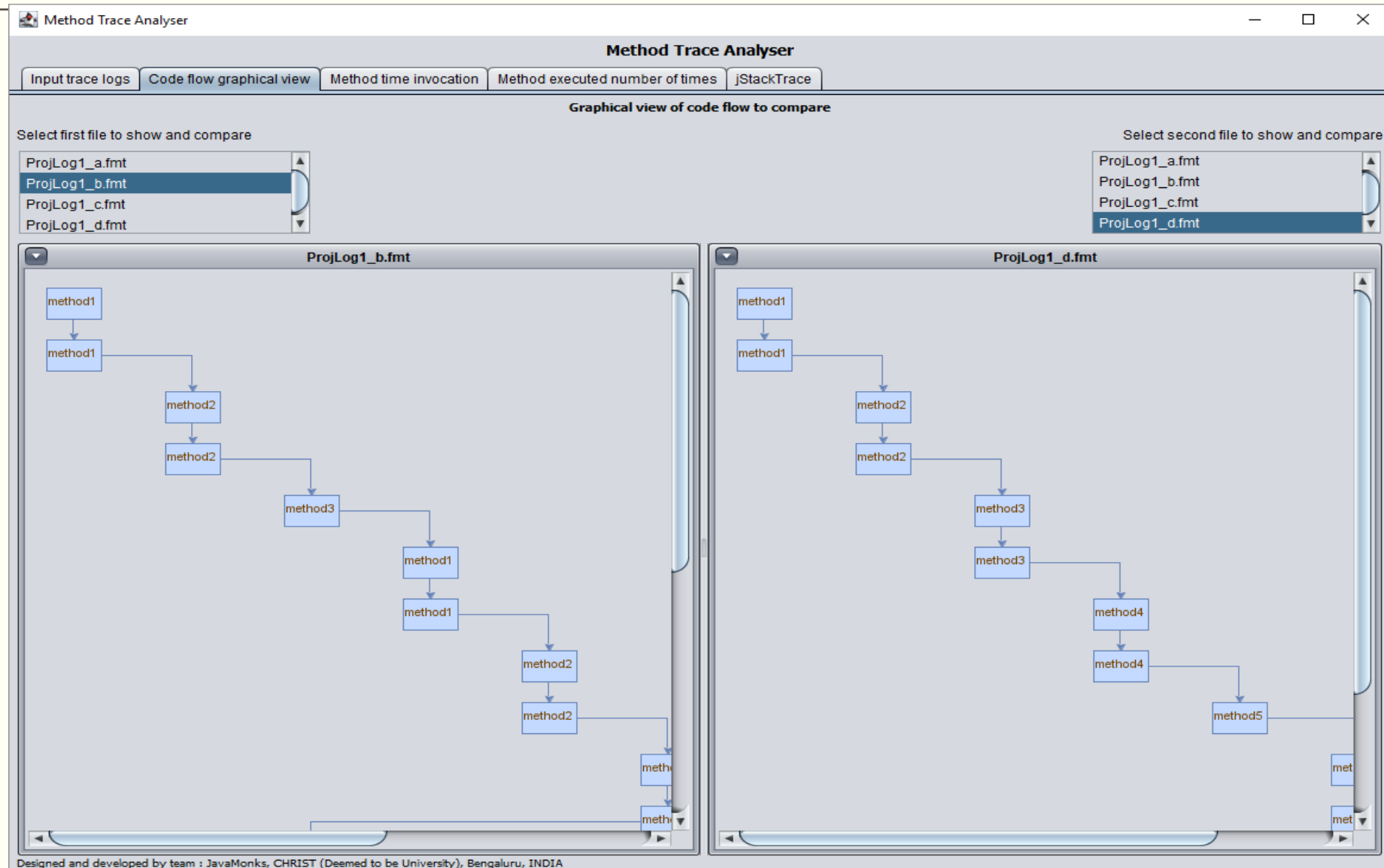- org.netbeans.external (AbsoluteLayout) for GUI

Tools/Platforms:

- Windows, LINUX

- OpenJDK 8

- NetBeans IDE 8.2

- Apache Maven 3.39

- JAVA Swing API for GUI rendering

Process Flow Diagram

Screenshot of Solution

Functional Requirements

HARDWARE REQUIREMENTS

Same as Standard OpenJDK 8 system requirements:

Specified in web link below:

https://java.com/en/download/help/sysreq.xml

Minimum Requirement:

RAM: 128 MB

Disk Space: 100 MB

SOFTWARE REQUIREMENTS

Operating system as per OpenJDK 8

Link given below:

https://java.com/en/download/help/sysreq.xml

Develop & Tested on OS:

Windows 10, Ubuntu 16.04 LTE

Software used for development:

OpenJDK 8

NetBeans IDE 8.2

Apache Maven 3.39

Highlighting points

Below are some of the highlighted points which are specially taken care of during UI/UX:

- User-friendly tab panel system

- Easy comparison from side by side view

- Detailed and scrollable Code flow with compare

- Scalable and flexible graph with support of print and save

- In-depth summary for long jStackTrace of methods

Thank you

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