



Problem Statement

Currently there are no terminal based application available for Debugging.

It takes too much time to switch between application like IDE and Browser.

01

02

03

User have to copy error from terminal.

Objectives

01 Improve Debugging Speed

02 Error extraction

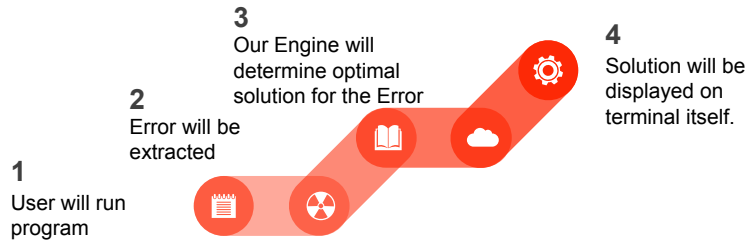
03 Optimal Solution

04 Faster debugging

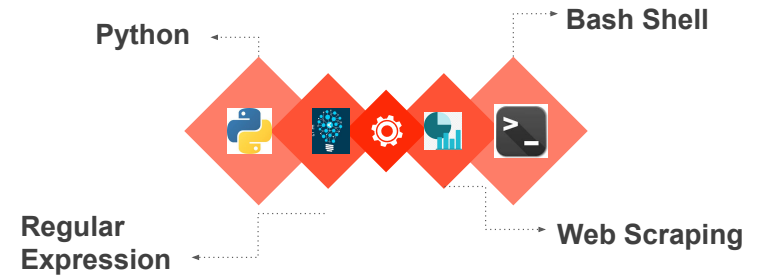
Scope

- ☐ Only solution that are available on the internet will be displayed.
- ☐ User don't need to leave terminal to search for the error.
- ☐ Only three programming languages like Python, Java and C++ are supported.

Architectural Design



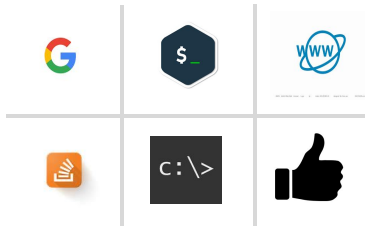
Technology Stack



Expected Outcome

Optimal Solution suggestion

Our Debugging Engine will search all over the internet and will give solution on the terminal itself.



User Upvote and Answer views

User can determine which answer to choose based on the parameters like Upvotes and Answer views.

Future Scope

- Support for Multiple languages.
- More Interactive interface
- Remove duplicate links ie., Decrease redundancy
- Improve algorithm efficiency

Literature survey

1. A Framework for Programming Process Measurement and Compiling Error Interpretation for Novice Programmers <https://ieeexplore.ieee.org/document/6113065/metrics#metrics>
2. Compiler-directed instruction duplication for soft error detection <https://ieeexplore.ieee.org/document/1395730>
3. Effective testing and debugging methods and its supporting system with program deltas. <https://ieeexplore.ieee.org/document/913249>
4. An approach to automated program testing and debugging <https://ieeexplore.ieee.org/document/809653>
5. Fail fast [software debugging] <https://ieeexplore.ieee.org/document/1331296>

Thank you