

SE Tool (Requirements Traceability)

Release-2

Team Members:

1. **Raghuram** – CS22B035
2. **Satyanarayana** – CS22B011
3. **Lachiram** – CS22B012
4. **Raghuveer** – CS22B019
5. **Sampath** – CS22B033
6. **Aseem** – CS22B008
7. **Pranav** – CS22B014

Post Release -1 (implementations , advancements)

- 1) Betterment of issue generation feature
- 2) Better UI / UX
- 3) Require documentations feature ()
- 4) Code summarise , AI-chatbot

- 1) **Betterment of issue generation** : what issues are present in the code
Is properly being addressed with more precision when compared to the feature implemented in release 1
- 2) **Better UI / UX** : improved and enhanced user interface
- 3) **Requirements docx** : without giving module name , if directly given Requirements document to the tool , it addresses which requirement is implemented and which requirement is not addressed in code .
- 4) **Code summariser:** Code summary being more precise and accurate .

Techstack :

- 1) Flask
- 2) Pypdf2
- 3) Torch
- 4) Huggingface_hub
- 5) Transformers

The final purpose of this tool, is as described and implemented , is to analyze a GitHub repository and verify its alignment with a requirements document (typically a PDF), while providing AI-assisted insights via chat.