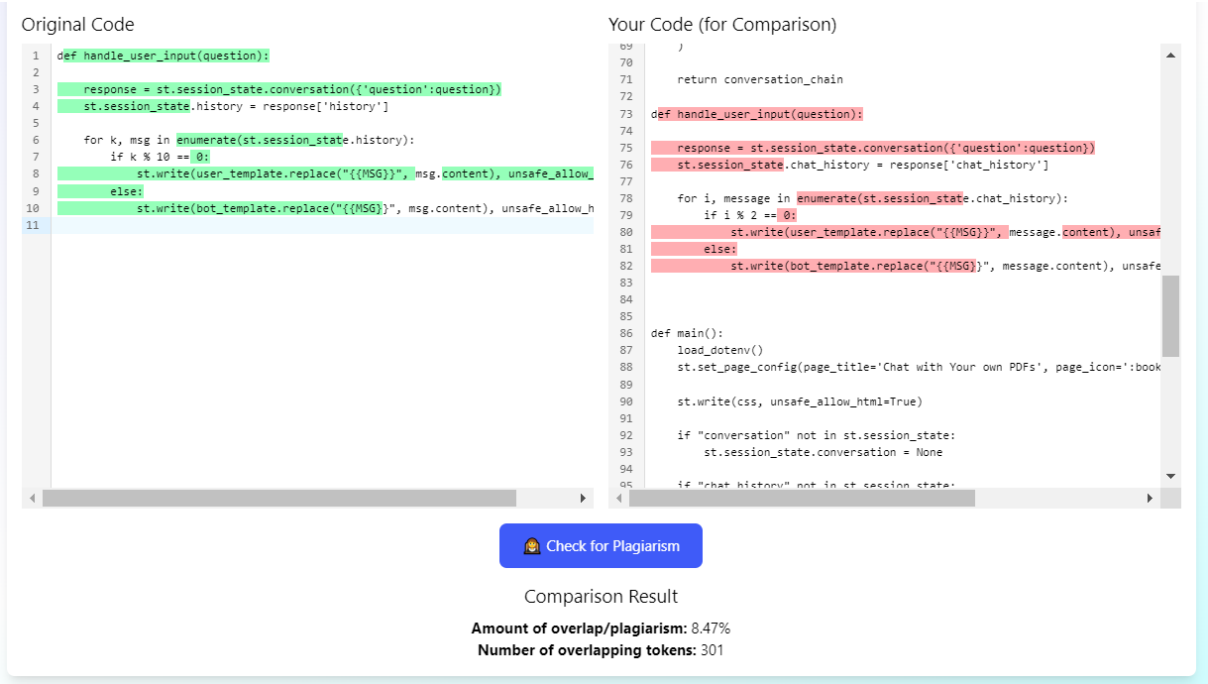
Analytics: All features related to code generation with Git integration module and MOSS for flexibility



Commit – 9:00 AM	AI-generated 9:30 AM	AI-generated 9:40 AM	Commit 10:00 AM
1a	Code snippet AA	Code snippet BB	1b

Spec:

- Log all events from Autocomplete, Sonarlint Autofix, Docify when user accept AI-generated code based on events defined here by Mạnh.
    - Code (**other.autocomplete_loc_accepted – LOCX(count lines)**) - Code snippet AA and Code snippet BB above **- ĐẠT**
    - Current git info (branch and HEAD commit) - "1a" above **- ĐẠT**
- When there is a new commit, log Git commit events from IDE for files. Can we turn this into a setting for that profile and enforced by PM for three levels:
    - Allowing productivity tracking on all files within workspace
    - Allowing productivity tracking on all files allowed by Code Context
    - Productivity tracking not allowed

- Can you do Git diff in the IDE or have to handle in Backend?
        - If yes: other.code_added and 1b and 1a commit hash content
        - If no: other.code_commited and 1b and 1a commit hash the in the backend - Compare (other_code_committed of 1a,other_code_committed of 1b) -> other.code_added
- Backend service to: **PHÚC**
    - Compare a database of other.autocomplete_loc_accepted of HEAD == 1a to **other.code_added – TLOC (count lines)** using MOSS
        - In other.code_added, for example if line 10-20 is matched to other.autocomplete_loc_accepted then we count those lines as

other.autocomplete_loc_committed. Only count for line 10-20 once, meaning if it is already counted as matched once, it cannot be counted again.
    - But if line 8-25 also got matched then we use 8-25, not 10-20
    - If 8-15 matched, and 10-20 matched, then we count 8-20 as AI Generated
  - Count other.autocomplete_loc_committed to calculate other.autocomplete_number_loc_committed **LOCY**
  - MOSS is not for commercial use, use this instead https://dolos.ugent.be/about/algorithm.html https://github.com/dodona-edu/dolos
  - Return **programming language** as well to calculate saving MM

- All events have to be attached to the right user profile
- Clear storage of these file snippets after calculation is done