Advanced method of bug counting

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Summary

- System Description: tool that retrieves files of projects, searches bugs in them, takes their metrics and processes the information received

- Project Motivation: Learn and practice Python programming language, understand the concept of teamwork and division of labor, contribute to project as a whole

- Project Goals: Make bug counting more precise (considering date of release)

- Project Requirements: Understanding of relation databases, practical knowledge in SQL and Python computer language

## Sequence Diagram

Bug Counting

File checking
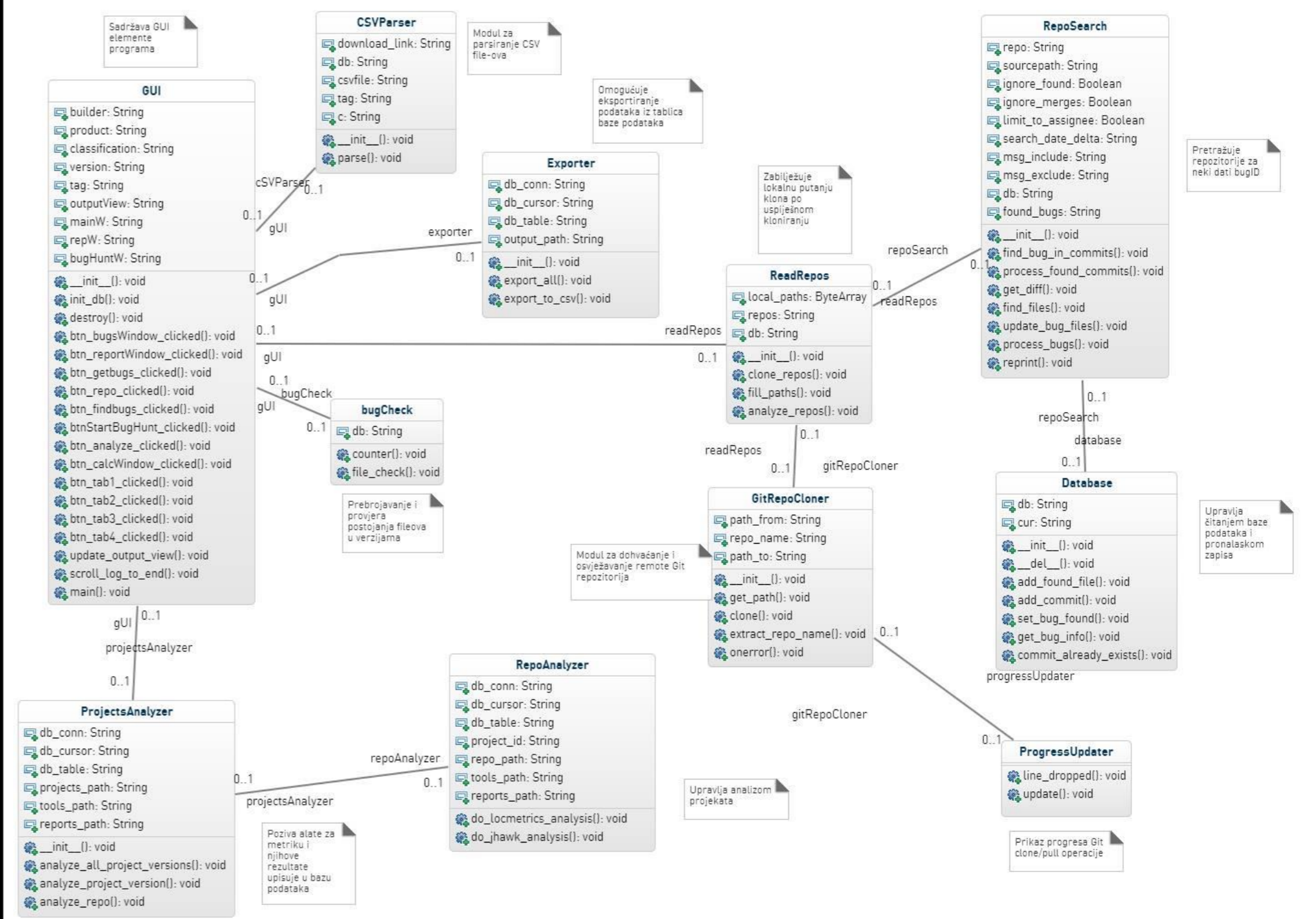
Class Diagram
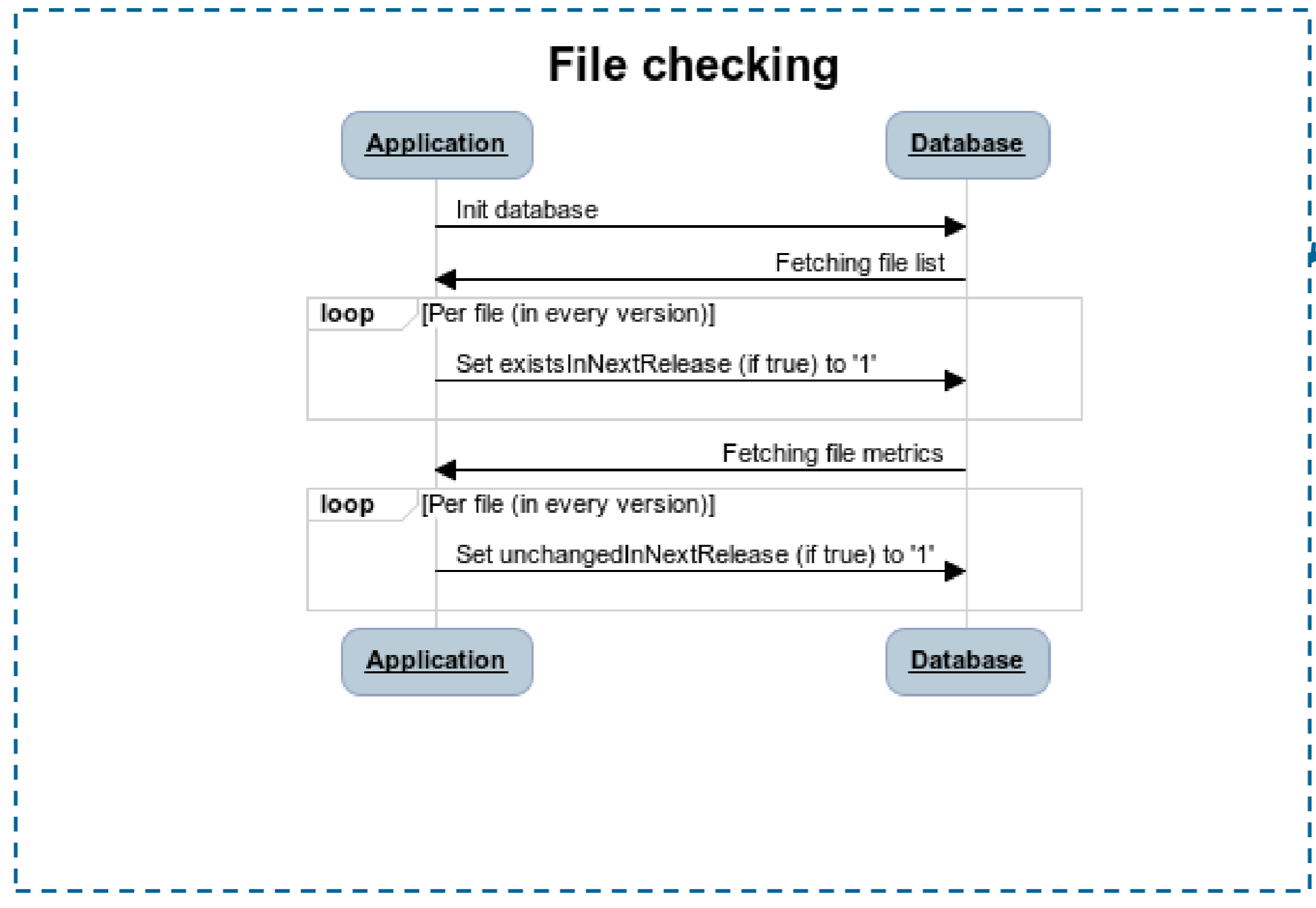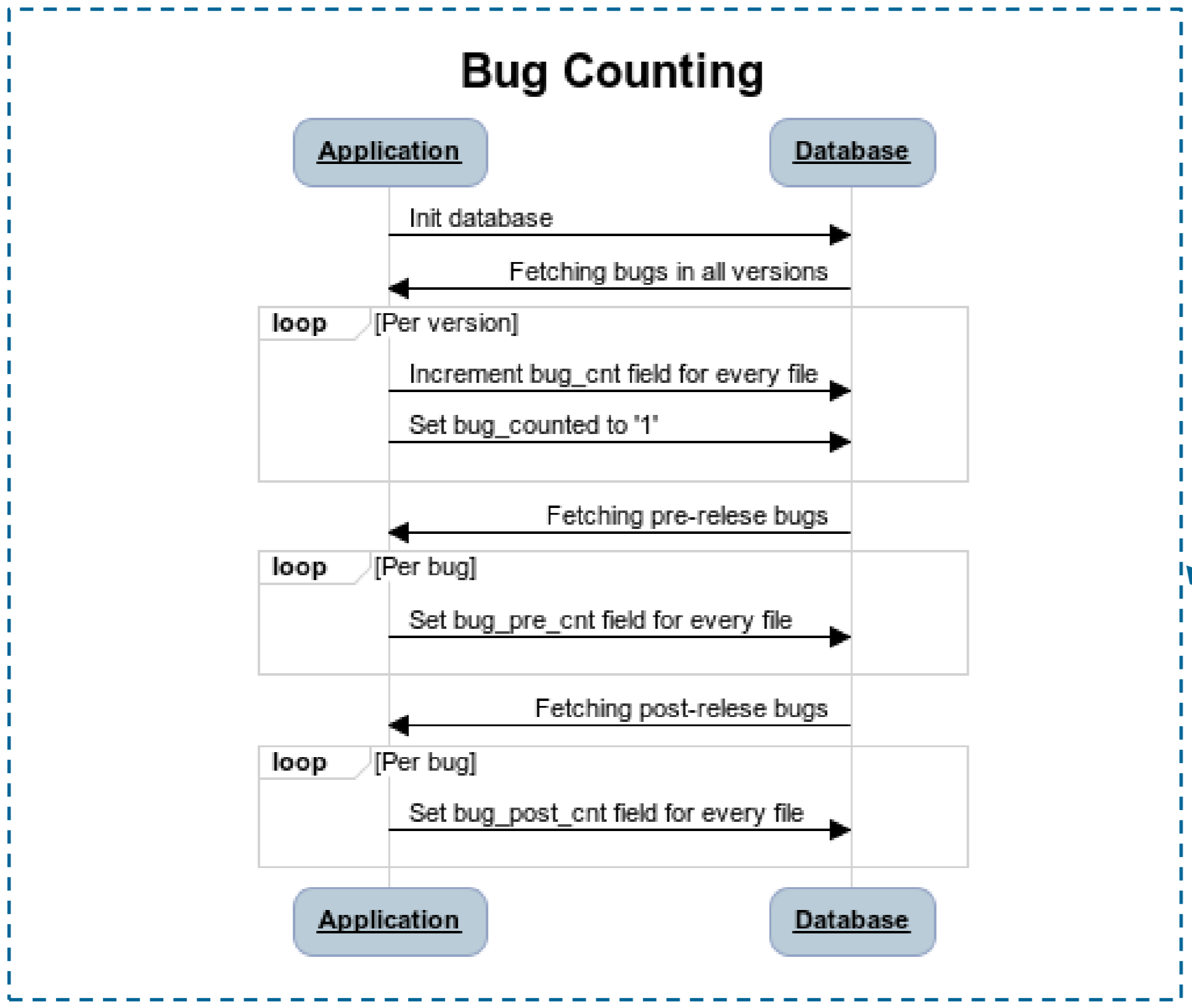
- Part that relates to the bug counting separated from the rest of the program
- The only prerequisite is the existence of bugs and data files in the database

Input / Output

- Input : Interface to connect to the database, data from db
- Output : Number of bugs for every file, information if the file is changed in next release
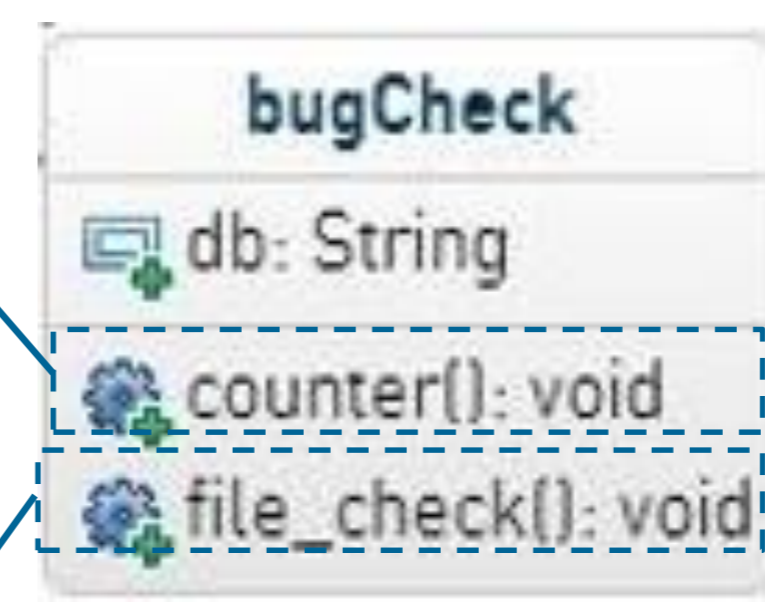
- Function counter counts bugs that are found in each and every file using the dates of finding and resolving of certain bugs, as well as the release date versions
- Function file_check checks the existence of the file in the next version, and whether there are differences in metrics between two successive versions

Conclusion

- Experienced problems: Multiple changes of database

- Learned Concepts: Working with shared data, Coordinating among different teams, division of labor

- Future works :
  - Additional optimization of search speed and increase safety in the event of interruption
  - Possible use of multithreading