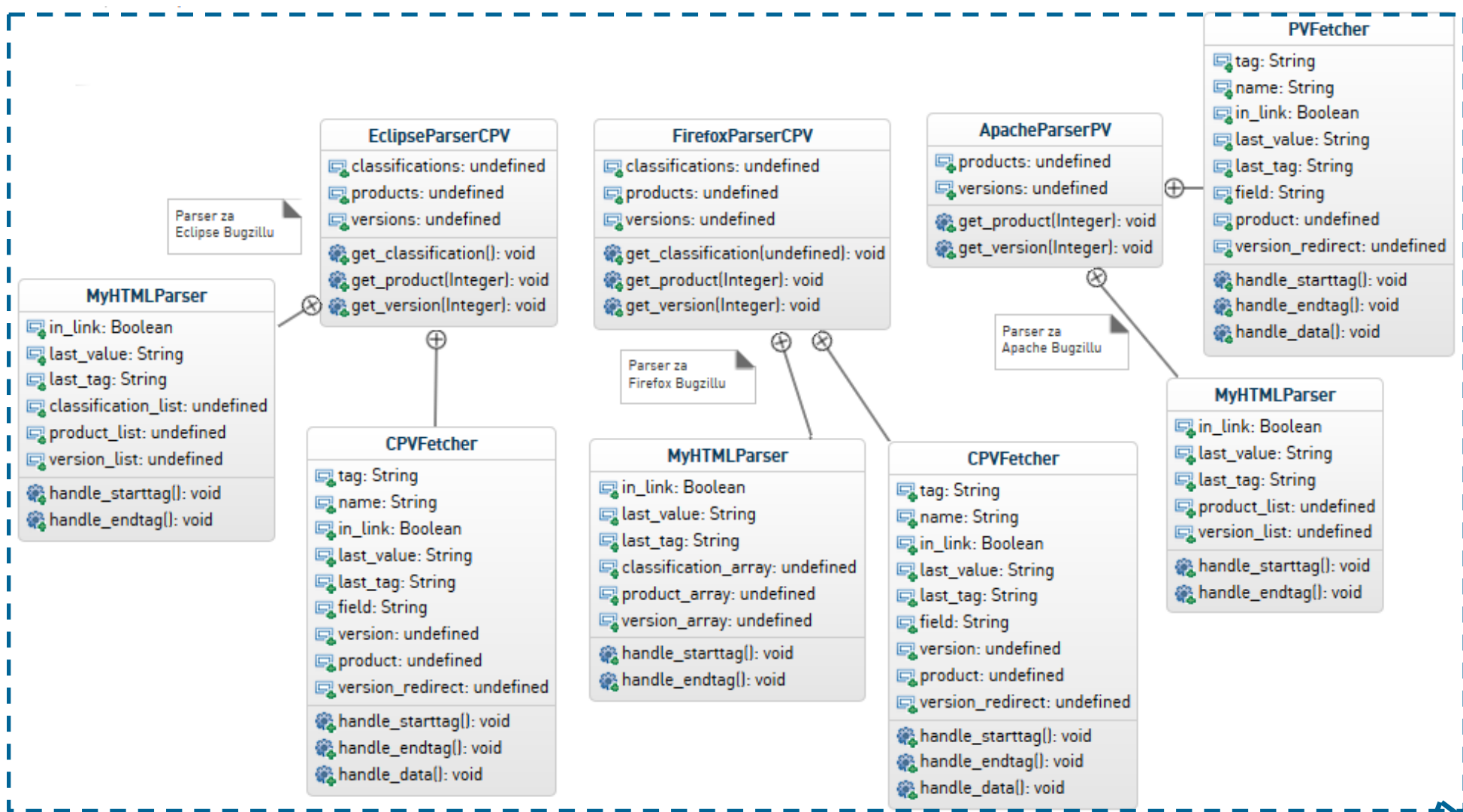


Summary

- Project goals:
 - Fetch HTML data from Bugzilla
 - Parse that data to a proper format
 - Enable listing through data via GUI
- Libraries/tools required: PyGTK/Glade 3.6.1

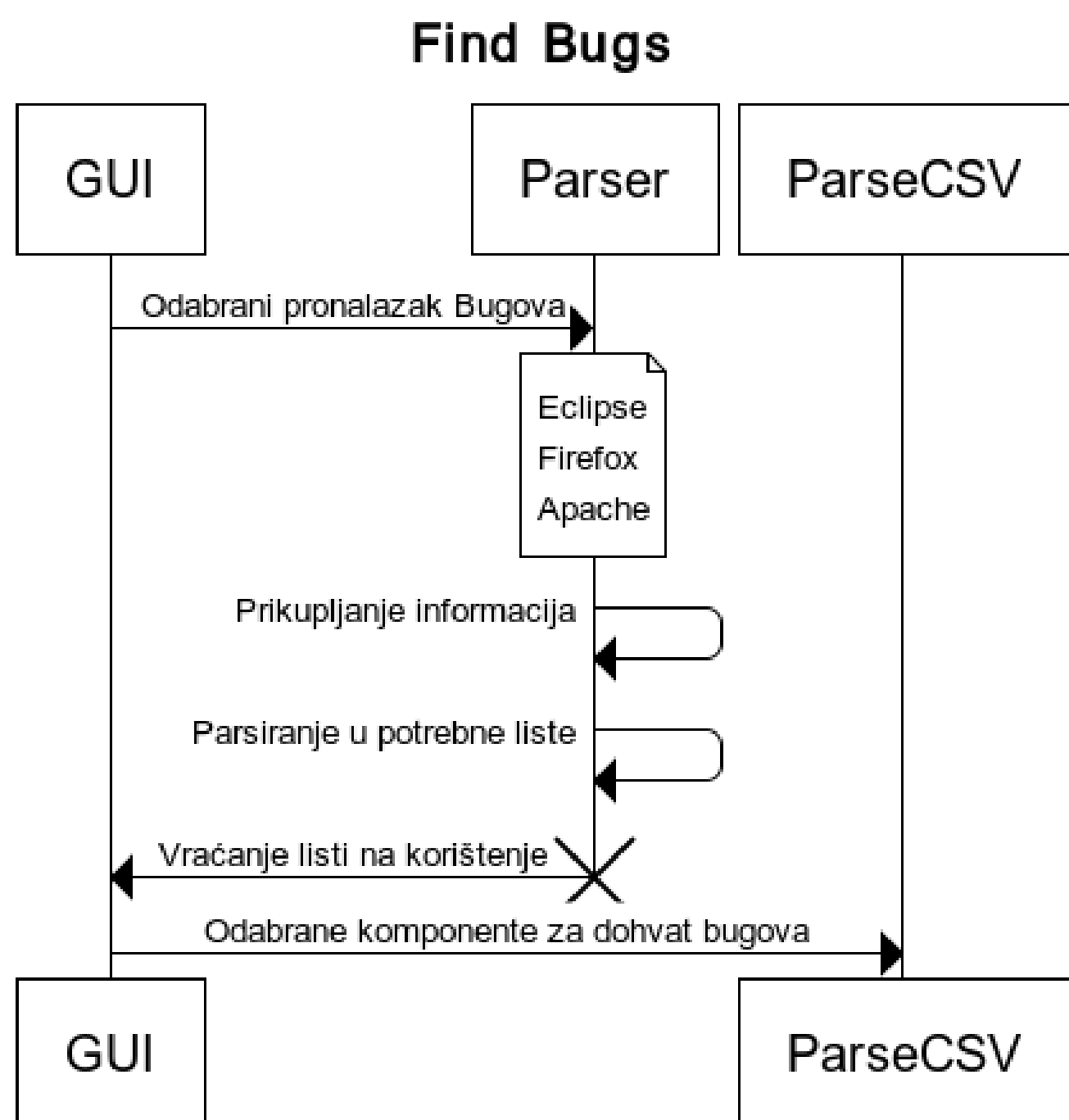
Developed Component

Class diagram



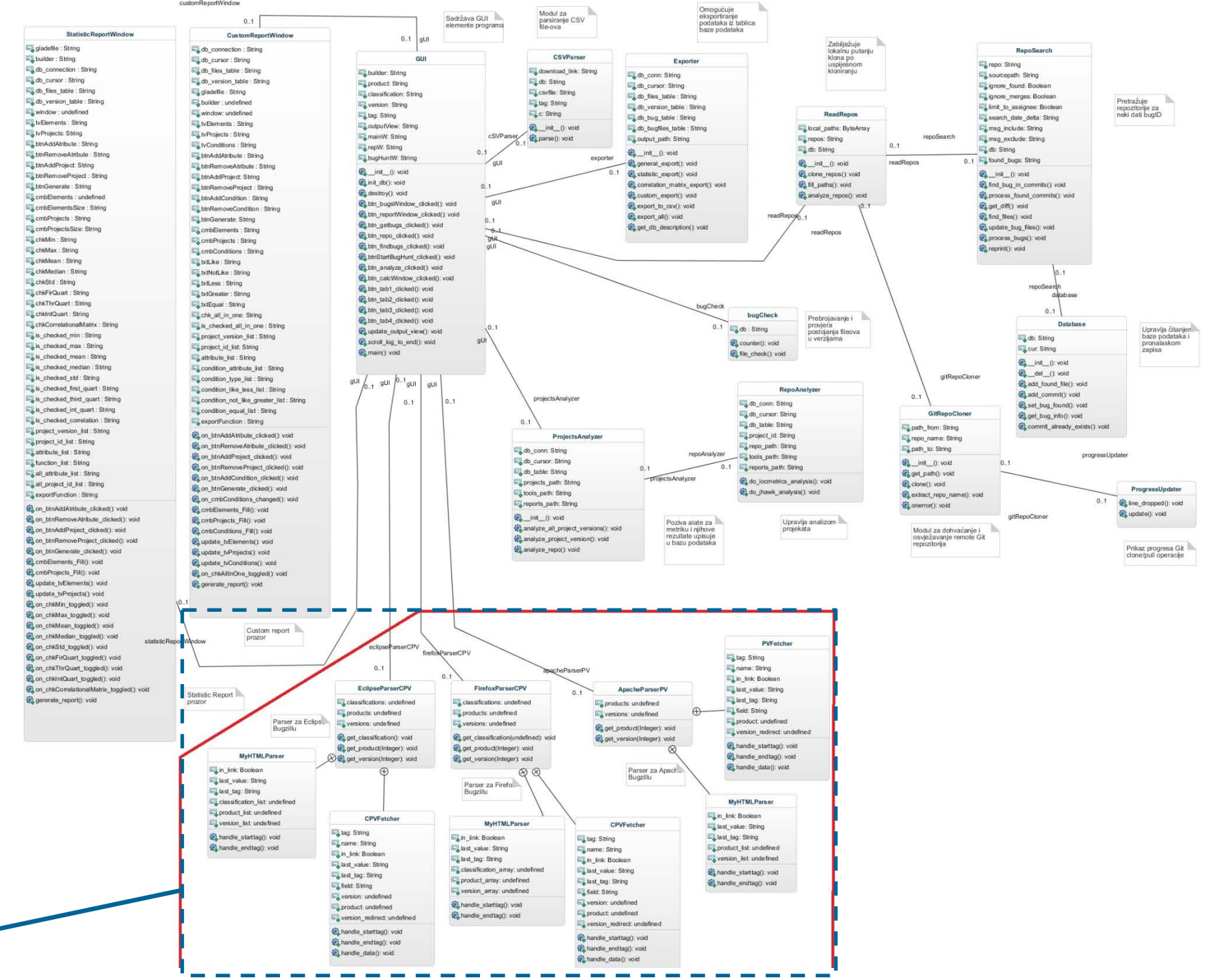
- There are three different parsers for bug finding operation on Bugzilla:
 - Eclipse
 - Firefox
 - Apache
- Classes MyHTMLParsers and (C)PVFetchers are some sort of a inner classes for each type of chosen operation

Sequence diagram



- User can choose one of three parsers on GUI to use for finding bugs
- The module then collects needed data and parses it in needed lists
- Those lists contain Classification, Product and Version which are again given to GUI component and user to choose each of them
- When choices are set user can initialize execution which transfers chosen data to ParseCSV module

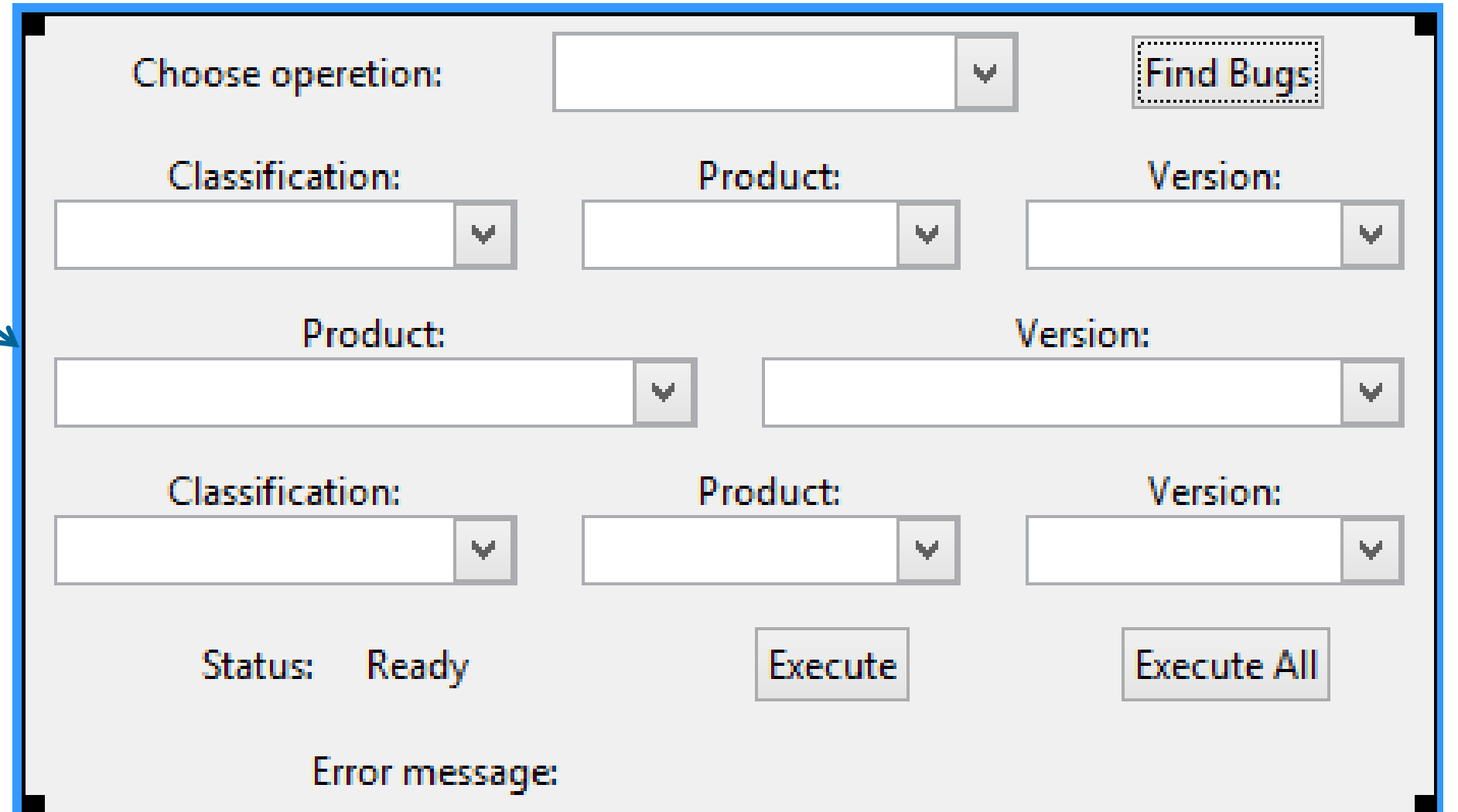
Overall Architecture



- Architecture components: Bug finding functionality, CSV parser, Project/repository analyzer (using external tools), Repository maintainer, Repository history analyzer, Database abstraction utilities, reports building functionality

GUI

Find bugs dialog



- The GUI presents the user with multiple choices of bug finding functionality
- First choice is “Choose operation” with executing button “Find Bugs”
- After process of finding is complete user can choose Classification, Product and Version
- With chosen parameters user can press “Execute” and “Execute All” to start fetching bug reports from Bugzilla and adding it to database through “ParseCSV” module

Conclusion

- Experienced problems:
 - Each Bugzilla part (Eclipse, Apache, Firefox) is different and demands single parser for each part
- Learned concepts:
 - Python coding
 - OOP paradigm
- Future work improvements:
 - Enable multithreading
 - Proper documentation before development starts