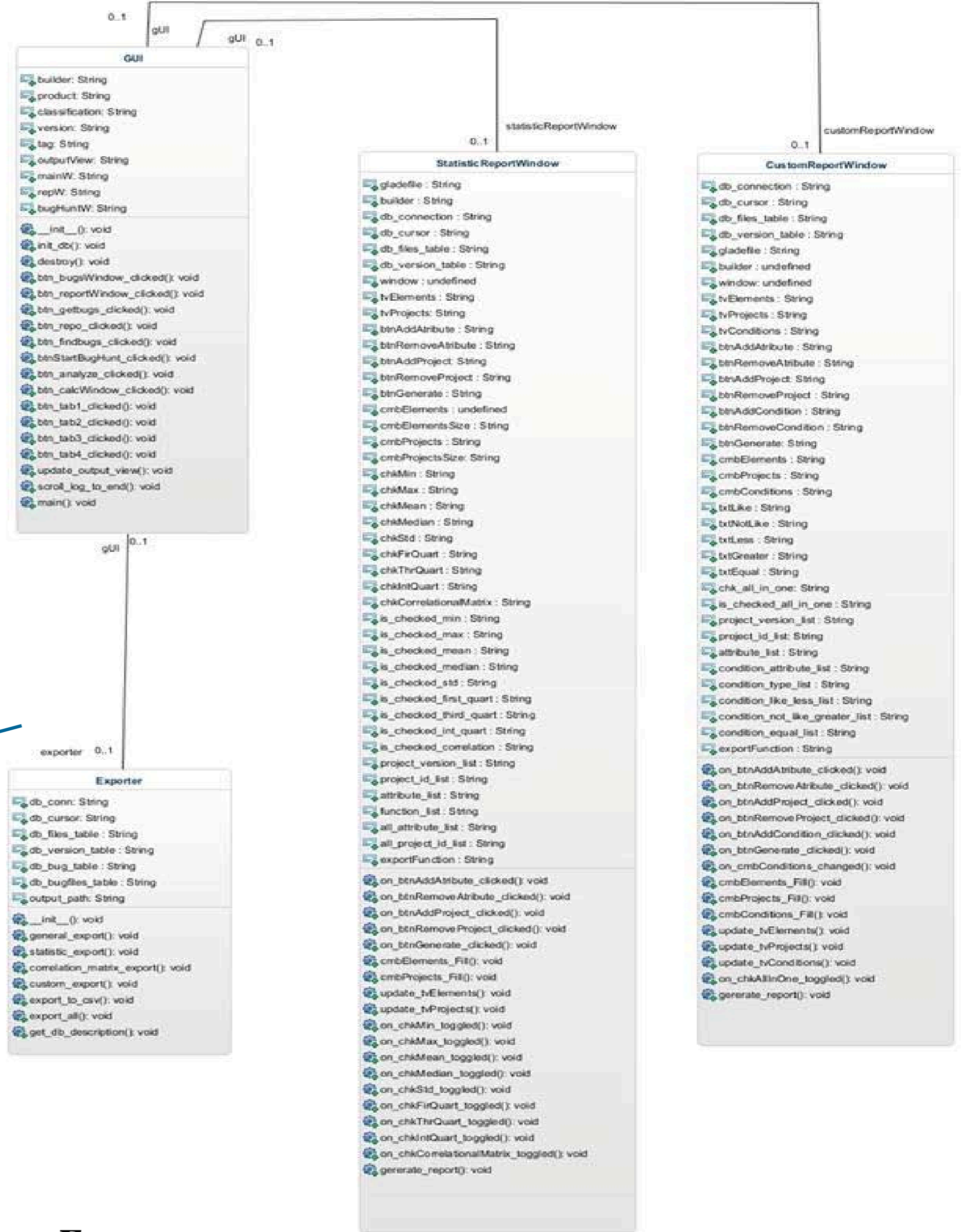


Summary

- **System Description:** data gathering tool that retrieves data from open source repository, and by using LocMetrics and Jhawk tools collects information about bugs and prepares it for data analysis experts
- **Project Motivation:** in previous version of **DGTool** only export whole table *whole_project_files* from database to .csv file was allowed which is very impractical for data analysis
- **Project Goals:** improvement of generating reports and allowing the end user to make custom reports
- **Project Requirements:** organized database

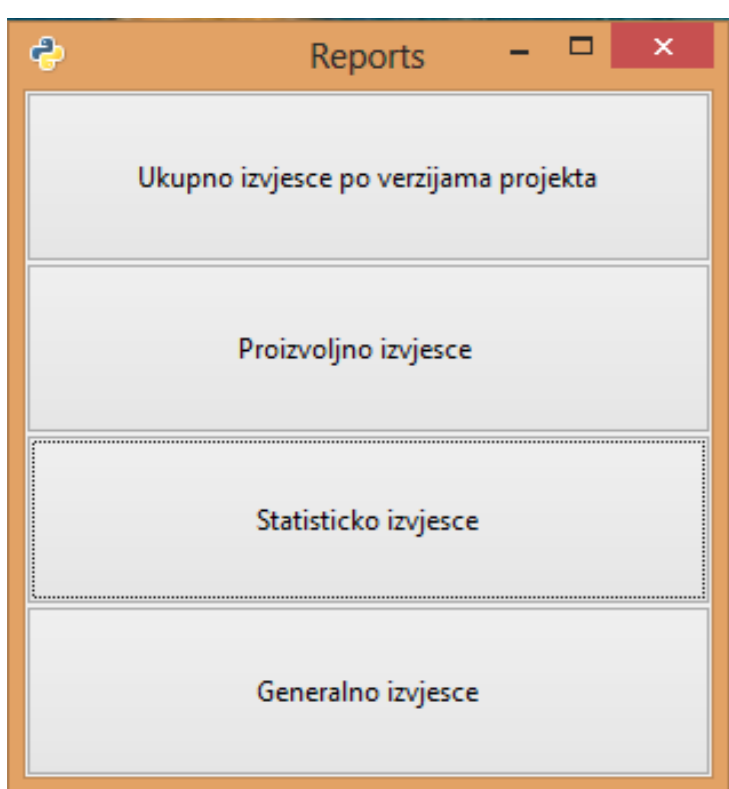
Developed Component

Class diagram



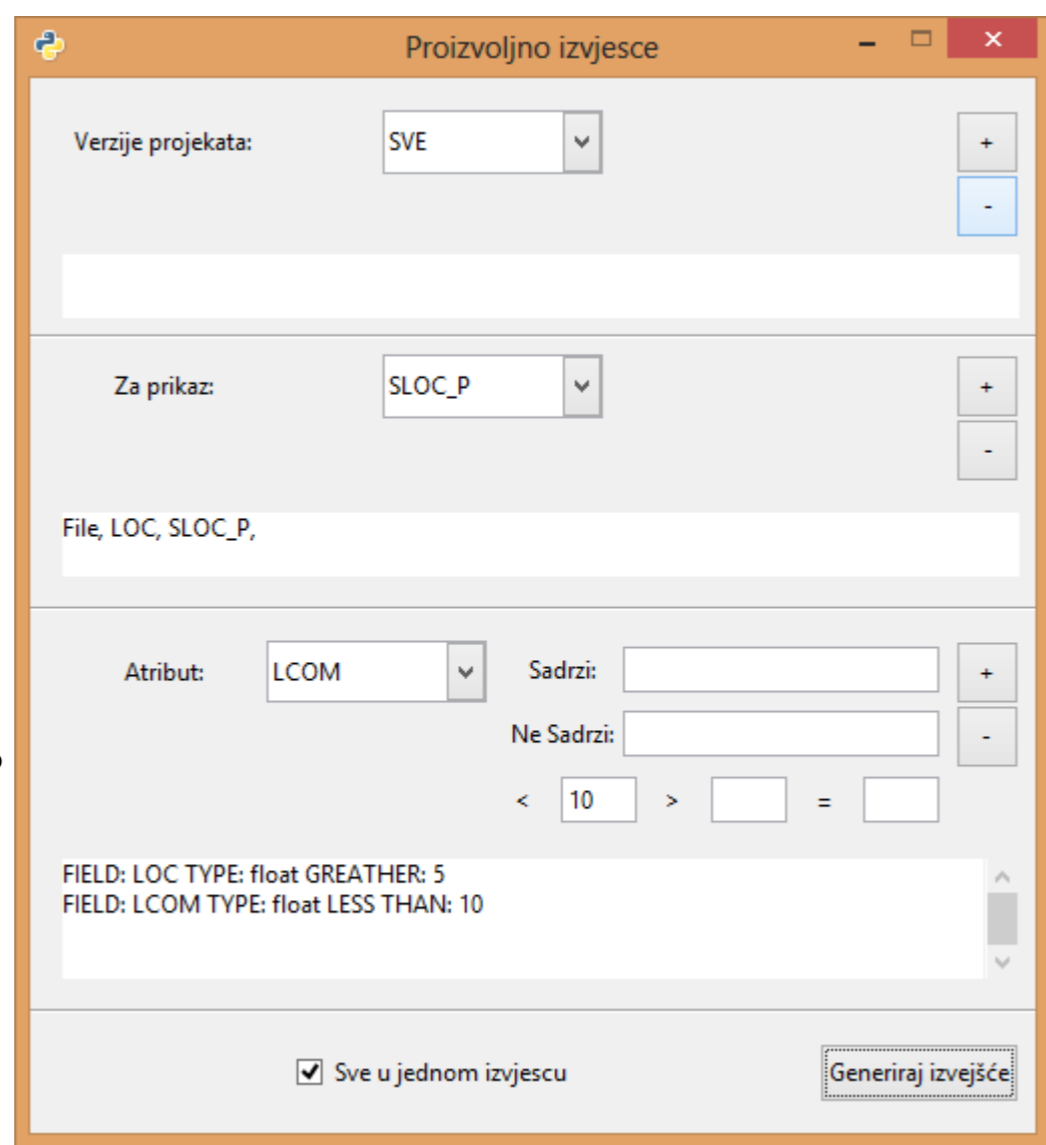
GUI

GUI for selection of the type of report



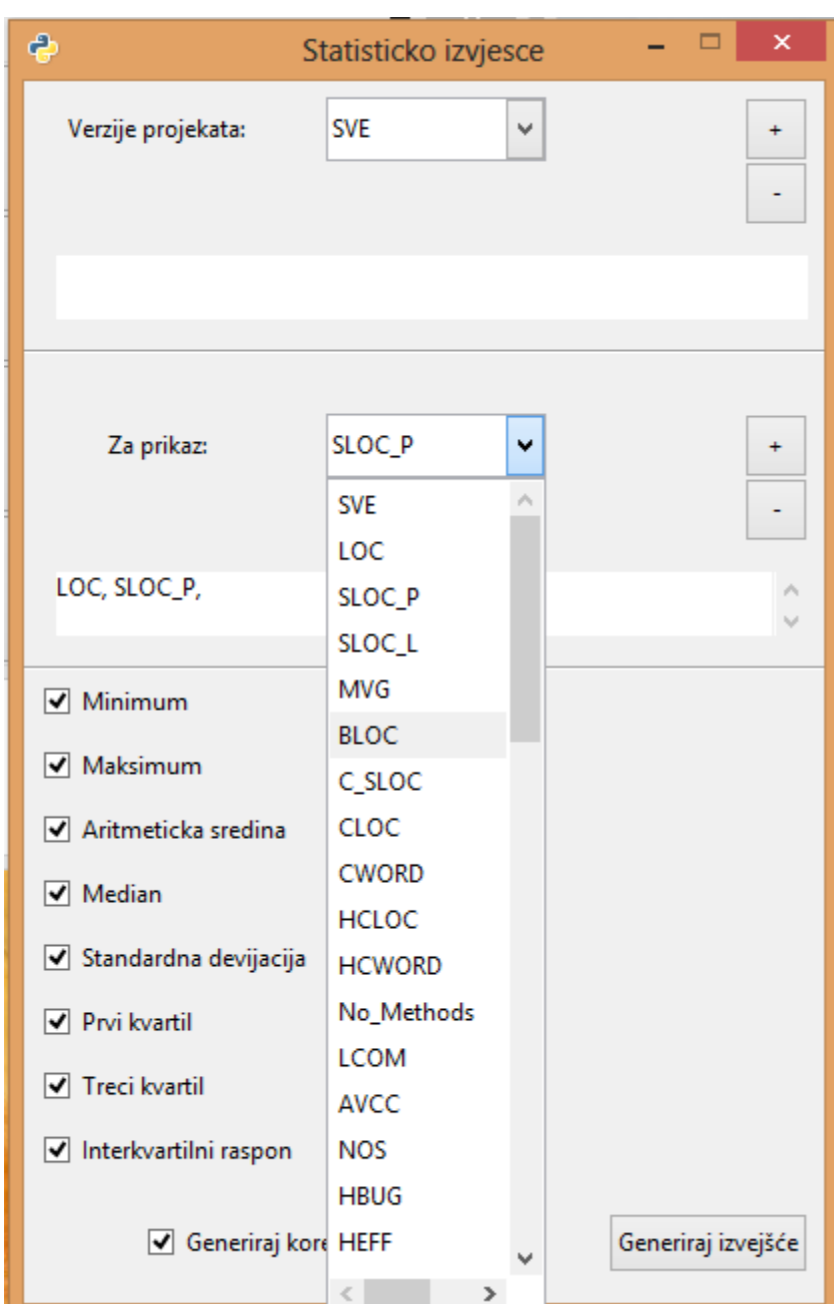
- Reports GUI allows end user to choose a type of report that will be exported
- Depending on the selection, appropriate window is open or the method for export is called

GUI custom report



- Custom report GUI is used for facilitating the selection of data to export in .csv file from table *whole_project_files*
- Provides selection of project version, attributes, and limitations (for numeric types – greater than, less than, equal; for text types – contains or not)

GUI for statistic report



- GUI for statistic report allows end user to select project version and attributes from which it generates statistical measures
- Selectable measures to export: minimum, maximum, mean, median, standard deviation, first quartile, third quartile and interquartile range
- Possible to create correlation matrix of selected attributes if the number of rows are equal and are not NULL

- **Exporter**
 - Provides necessary methods for generating custom, statistical, common export, or to export table *whole_project_files* from database to .csv file
- **CustomReportWindow**
 - Methods necessary to start and execute GUI for custom report
 - Calls method to generate custom report (from *Exporter*)
- **StatisticReportWindow**
 - Methods necessary to start and execute GUI for statistic report
 - Calls method to generate statistic report (from *Exporter*)

Conclusion

- Improvement over the previous version has been made
- **Future Work:**
 - Because of the changes in database method *general_export()* in *Exporter* is commented out and requires modification
 - For generating correlation matrix allow difference number of rows
 - Allow project selection (currently is just project version selection allowed)
 - Integrate the generation of reports into a single .csv file