Task description

Part 1

We need to develop simple console bug tracker system:

The system should have following capabilities:

1. It should be console application
2. All the data structures (Project, Users, Issues) should be stored in the filesystem including relations between them
3. It should have the ability to load Projects, Users, Issues to the application
4. It should have the ability to display the list of entities for any type of object
5. It should have the ability to generate the report of all Issues created for specified Projects by specified User

Details:

- Data structures can be stored in memory. No database needed.
- It is recommended to use logging libraries

Part 2

Description:

1. Design database structure for the same system
2. Prepare SQL script for filling tables
3. Prepare SQL query for all Issues created for specified Projects by specified User

Details:

- It is recommended to use embedded database (SQLite, H2)

Advanced Part (Optional)

Part 1 and **Part 2** can be combined into one project. You can load data structures from filesystem directly in database and then use JDBC queries for retrieving data.

Common recommendations:

- In case all parts weren't completed is it still possible to send the task for check
- Do not upload sources to the public repos (do not use GitHub, etc.).
- Use bitbucket.org private repo or send zip with sources.

Task should be implemented in 1 week since it was provided. Exceptions are possible but we should be notified in timely manner.