Project Activity 4 – Automated Software Testing and Deployment

Describe your team's application:

1. Which features of the whole project did you choose to implement from the backlog? Describe your personal task (code or document processing) and expected results of your part
2. What are the specific objectives of your features and how do you plan to test them? Describe the methods of testing and expected results of your tests

**The goal of our features is to automatically test our code. To test our code in Jenkins, we wrote Jenkins Pipeline and used bash scripts.**

1. Why were your inputs stored? Please apply the link to your branch on github.com or other system of version control

**Strategy of Automation Development of your application**

Provide a brief description of your team’s strategy for automation this project.

What CI/CD tool did you use for your project? Please attached the jobs description and expected results.

**We take our code from GitHub, then connect it to Jenkins using SSH-key. We then build our code and test it. After a successful attempt, it checks for changes to our code every 10 minutes, if Jenkins detects any changes, it does a deploy to the AWS cloud. As a result, our code is fully tested and interacts with the AWS cloud.**

**Final Deliverables**

**Presentation**

Provide the following evidence (which will also be part of your presentation):

Application and Git:

* Application code with new features
* Show changes pushed to GitHub
* Test cases
* CI/CD pipeline functionality

Reflect on the type of issues you have faced while working on this project. How did you find solutions and what have you learned?

**During the work we encountered a problem writing Jenkins Pipeline, there were bugs in our Jenkins code and we couldn't make the code deploy to the AWS cloud.**

**We fixed the error with Jenkins Pipeline by rethinking the structure of functions and changing erroneous parts of code. We solved the problem with AWS by opening a new AWS server and re-introducing SSH keys.**