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

**I chose the function of project manager; I am responsible for the maintenance of all project documentation. That is, all the steps taken by my colleagues will be recorded by me. As a result, we developed a website (or rather its 2 versions) 1-site vulnerable to SQL injection, 2-site fully protected from it, raised the database, did project testing, created for each team member a branch on GitHub, where everyone published his part and worked on it. And I, as the project manager, in turn wrote everything down and kept documentation of the project.**

1. 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.**

**As a project manager, I do not need to test anything, but I write down all the documentation and record the testing process and other steps taken by team members and describe everything.**

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

**My branch is called documentation and contains all of the project documentation.**

<https://github.com/AbylaiShazhabayev/Security-of-Website/tree/Documentation>

**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?

**As a project manager I have to carefully describe all the processes and maintain documentation and I didn't have any particular problems, since I don't have to write code, I didn't have any errors either. There was just a lot of, shall we say, paperwork.**