

Project Activity 4 – Automated Software Testing and Deployment

Team Name: Dream Team

Describe your team's application:

a. Which features did your team choose to implement from your backlog?

The features that the team choose to implement from the backlog is creating the Graphical User Interface of the IP Address Application. We've also added the feature that can search for the information of the Public IP Address of a specific user.

b. What are the specific objectives of these features?

The specific objectives of these features are to locate the place where the Public IP Address comes from and track down the Public IP Address of a specific user and provide information from them.

c. Why were these features chosen?

The reason why these features were chosen in order to provide the necessary information needed if a user's Public IP Address was given. This would also help to better visualize the output of the application to become more user friendly.

Record your team member roles and skillsets

Team member	Role / Knowledge / Skillset
Gerarman, Erika Marie G.	Team Leader, Research, Team Management
Quebral, John Brian F.	Developer, Programming, Python
Villote, Jerald D.	Secretary, Documentation, Support Programmer

Strategy / Project Plan

Provide a brief description of your team's strategy for completing this project.

As a team, we were able to finish the backlogs by agreeing on what project or part of the project to finish next. In this activity, prioritized items are one of the most important aspects of a backlog. As a result, the items at the top of the list indicate the team's most essential or urgent tasks.

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?

The main issue that the team faced while working on this project was the implementation of CI/CD. This thing is new to us, but we managed to do it by watching videos, searching for what is needed, and helping each other. We've learned that the teams should implement CI/CD as one of their best practices. Because deployment stages are automated, it is also an agile methodology best practice that allows the team to focus on fulfilling the software requirements.

Team activities and reflection

Deliverable / Rubric: Your manager is interested in knowing how everyone worked together as a team. Here is a list of questions from your manager:

- a. What did you enjoy about working as a team? What worked well?

As a team, we enjoyed working with each other since we have a different role in this activity, we managed to comply with each task. Also, even though not all of us are good at coding, team management, and documentation, we chose to teach and accept corrections from each other so that we can learn more.

- b. What team problems did you encounter and how did you resolve them?

In our team, we encounter time management problems. To solve that problem, we helped each other to plan and estimate the time needed to accomplish each task. Also, we considered having a clear timeline for us to be aware of the priorities of the project.

- c. What technical problems did you encounter and how did you resolve them?

Our team encountered problems with Docker and Jenkins. This is because we have limited knowledge in this field. But like what we are always doing, we searched on the internet, and we did not limit ourselves to the team, in fact, we seek help from our classmates.

- d. How was each team member held accountable individually and for the team as a whole?

To be accountable to a team, each team member must be transparent about what they intend to do, follow through on that plan, and inform the team when the task is completed. Also, repeatedly asking for updates on clearly defined goals and offering their updates would be a valuable contribution to the team.

- e. What was your team's decision-making process?

For the team's decision-making process, there are certain things to be done. First, it is a must to define the existing problem. After determining the problem, the next thing to do is to gather information related to the problem. Next, the team needs to develop solutions by asking each other questions and by brainstorming. Lastly, it is to find the best solution and evaluate the outcome.

- f. Overall, how were the team dynamics and what were any lessons learned?

The good thing about the team is that we have designated roles, and we are familiar with our parts. We have learned that a team can immediately focus on specific activities by simply assigning roles at the start of the project. Everyone should be in charge of brainstorming, problem-solving, and sharing their knowledge and experience.

Honor Pledge:

"I affirm that I have not given or received any unauthorized help on this assignment, and that this work is my own." - **Gerarman, Erika Marie G.**

"I affirm that I have not given or received any unauthorized help on this assignment, and that this work is my own." - **Quebral, John Brian F.**

"I affirm that I have not given or received any unauthorized help on this assignment, and that this work is my own." - **Villote, Jerald D.**