Exercise: DevOps Planning & Research

You are starting as a Junior DevOps in a IT Company. You get assigned to a new Project that develops software solutions for Banking systems. Currently, you are single devoted DevOps engineer on that project with mixed team members (Devs, QA, PM’s etc). Before the Kick-off of the Project, you are given the task to plan and research the best practices for the project.

1. Explain what steps you are taking for planning and research?
2. Define a problem, define a goal(solution)

2- Develop a plan for researching and collect relevant data for the problem

1. Analyze the collected data and research some trends , patterns in it (users flow or smth)
2. 4- Review of other software on the markets that might be solution on their problem,

5 – Develop a plan for making a software solution based on research and data you’ve collected and make sure that our solution has better features and capabilities then the existing software on the market

1. How would you describe the process for DevOps best practices to your colleagues?

Collaboration between developers teams and operations teams and following key factors ( CI/CD,monitoring, etc) is the main thing to deliver software faster, with higher quality also in the same time to maintaining stability and security.

1. How would you organize your time for planning and research?
2. Set a deadlines(time for research and planning)
3. Prioritize tasks – for example spend more time in gathering relevant data and planning a solution for the problem who has the best outcome.
4. Flexibility – for unexpected problems that will come out and you need to be ready to adjust
5. What methods and tools are you using during this process?

During this process we might use project management tools for tracking progress, data analysis tools (excel, powerPoint for visualize) collaboration tools, for the methods we might use interviews or some survey with the people who need software solution for their problems.

1. Describe the short (imagined) presentation of your research and planning, for your team briefly:

Providing some background info of the problem we are trying to solve. Present the challenges (for example that are related to security and customer satisfaction) and our goals with some software solutions that addresses the related problems. Present the data that we’ve collected using some methods like interviews and surveys from the bank employees and their customers. Share with the team the solution and their features and capabilities, project management tool to everyone who is involved to keep a track.