

## Group Assignment. ( Huang zhangqin, Sagar Ingale, richie chia, samson poh)

- Discuss within your group about what is the project (e.g. banking application, e-commerce application etc.) that you will run.

### Banking Application

- Discuss within your group about what methodology (e.g. Agile or waterfall or a hybrid) that you will use to run that project and why

Agile, as an agile method prioritized cross-functional collaboration and continuous improvement. It divides projects into smaller phases and guides teams through cycles of planning, execution, and evaluation.

For banking application, sometime urgent security fix needs to be done, so agile is best suit this case

- When it comes to deployment, what kind of software deployment methodologies (e.g. Blue-Green, Rolling etc.) would you use and why

### Rolling Deployment.

- Ideal for zero-downtime deployment, the benefits of a rolling deployment are that it is relatively simple to roll back, less risky than a basic deployment, and the implementation is simple.
- Usually banking will do deployment on a low traffic period ( midnight), after the rolling deployment, they can verify it

As banking deployment will set the website into maintenance mode, for blue-green and canary is not necessary

Basic deployment has higher risk, also not suitable for banking deployment

- Discuss what CI/CD Pipeline tools (AWS or third-party tools) that you will use.

Ans: Jenkins and Gitlab as well as terraform

Banking applications are better to use mature and industry wide use tools, since jenkins is highly reliable for DevOps testing and ensures high-quality product development without the need to monitor the entire deployment process like other CI/CD tools. This makes it more

unique and competitive in the market. GitLab comes with a dedicated Git repository management solution