**Innovation**

**Describe the problem and explain your thinking?**

Problem – To find a way to people to put in requests for new ideas/projects and also, they should be able to track the progress of existing and new projects.

Thinking/Solution – A dashboard with an option to put in request for new project, list of projects, project details page and a timeline to track the progress.

**What were the constraints?**

DESIGN

KNOWLEDGE OF FRAMEWORK

SCALABILITY

SECURITY

PERFORMANCE

**What did you consider before taking action?**

Know your audience for the design, how much traffic can we expect, various files we can expect users to upload and download, user authentication client and server side.

**Who else were you working with?**

My other 2 front end developers, UX Designer, QA and Backend Team.

**Explain what you did and what you learned.**

I was a front-end developer, developed features like request form, artifact carousel for the project details page, subscriptions page, notifications page, css skeleton, automated the generation of email template for notifications.

Learned – React, Styled Components, how to architect the front-end file structure, reusability of components and services, configuration/environment files, design practices, automation, work within and across team members.

**Talk about why you were (un)successful**

Successful – I am a quick learner, I am not shy of taking more responsibilities, helping team members, interested in learning new technologies.

**Were you able to apply your learnings to other projects later on?**

Yes. Used React, Styled Components in few of my personal projects.

**Notes Manager**

**Describe the problem and explain your thinking?**

Problem – design a fault tolerant web application

Thinking/Solution – use Cloud platform - AWS

**What were the constraints?**

KNOWLEDGE OF FRAMEWORK

SCALABILITY

SECURITY

PERFORMANCE

**What did you consider before taking action?**

how much traffic can we expect, overall application security, SQL injection attack – OWASP Tool, Unprotected APIs – Nikto Scanner

**Who else were you working with?**

My other 3 project members.

**Explain what you did and what you learned.**

Design backend APIs for user authentication in JAVA, Spring Boot, Created cloud formation templates for various AWS services.

Security template – VPC, Subnet, Internet gateway, Route Table, Route.

Application template – EC2, RDS, DynamoDB, ELB, CloudWatch, S3, IAM policies, SES, Lambda.

Learned – how to create aws services, aws cli, continuous integration and delivery using GitHub, CircleCi and CodeDeploy.

**Talk about why you were (un)successful**

Successful – Was able to understand and follow aws documentation quickly, hardworking attitude, teamwork.

**Were you able to apply your learnings to other projects later on?**

Yes. Used my learnings to configure other cloud platform like Digital Ocean.