**Project Name: Squegg**

**Project Scope:** Continuous deployment with AWS Code pipeline along with code build and code deploy for continuous deployment for source code. Every time pipeline is triggered, a code deploys initiate that takes our commits from GitHub repo for our source codes and deploys it automatically on our servers.

Deployed Application Load balancers to handle traffic of applications with multiple target groups and created SSL certificates using Amazon certificate manager and attached those SSL certificates with load balancer to provide secure connection. MySQL database for managing data with no public access.

Deployment of AWS CloudFront with S3 origin to host static content, store secrets with amazon secret manager. And restrict resources access using IAM policies.

VPC peering for accessing multi region resources and MySQL Database for managing databases with no public accessibility.

**Infrastructure:** Deployed by using Terraform (Infrastructure as a code) on AWS.

**Services used:**

1. Secret Manager for storing secret value like Database password
2. Virtual private cloud (VPC) for the complete Infra of Pie-Board
3. MySQL database to handle database through VPC peering
4. EC2 instances to access server
5. Application Load balancers to handle traffic of applications
6. Security groups for allowing particular Ips
7. Aws CloudFront and S3 bucket for static frontend hosting
8. WAF as a security tool
9. IAM policies for accessing specific resources
10. KMS for encryption
11. SES for getting notification for pipeline failure.