

Internship Experience

Mitra Innovation (Pvt.) Ltd.

U.D.P.D UDUWELA -18/ENG/112
Department of Computer Engineering
University of Sri Jayewardenepura

Content

- Training Establishment details
- Placement Details and Scrum Team at Mitral
- Assigned projects
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- Technical and Non-technical skills



❖ Training Establishment details

- Mitra Innovation is a Technology Innovation based company in Sri Lanka, Australia, the U.S. , and the U.K.
- It has two central business Units. They are-
 - 1.Mitra Digital** - Focuses on software service delivery
 - 2.Mitra Ventures** – Focuses on product innovation and partnerships with other joint ventures

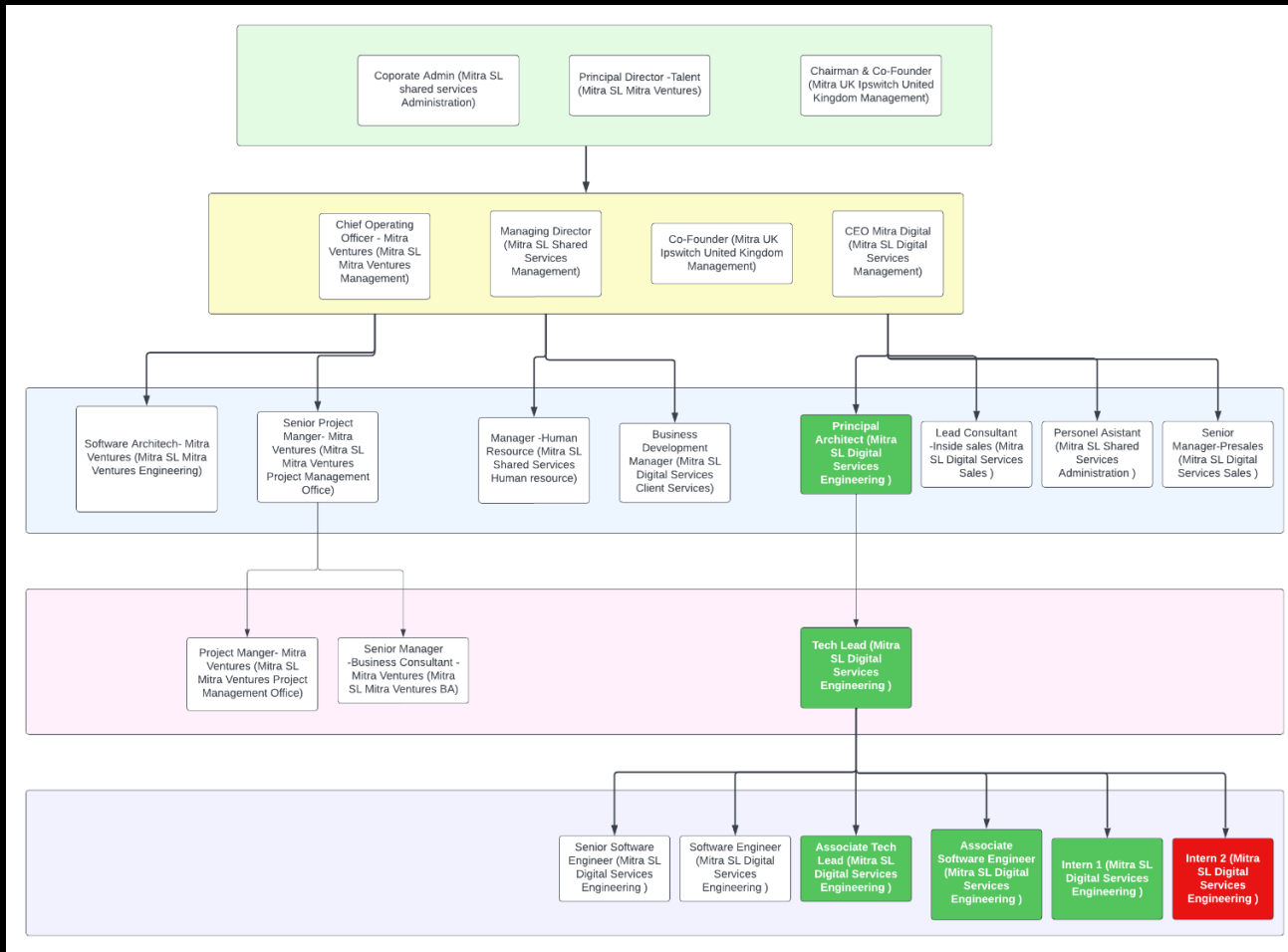
Vision

Which is to help entrepreneurs and enterprises build and launch disruptive technology solutions.

Mission

Which is to help as many successful products and ventures as possible.

❖ Placement Details and Scrum Team at Mitra



Assigned Projects

1. TRITON-(Client Project)

Triton is a **Cloud Security Posture Management (C.S.P.M.)** tool that will be developed with the intention of helping customers to secure their cloud environment by automating security, to reduce that attack surfaces, fix misconfigurations, resolve configuration drift, block unwanted behavior, and keep threats at bay.

2. ATS —(Internal Project)

ATS is an **Applicant Tracking System(A.T.S)** web dashboard proposed to developed for the Mitra Human Resource Department .

Triton

✓ Triton Stake holders

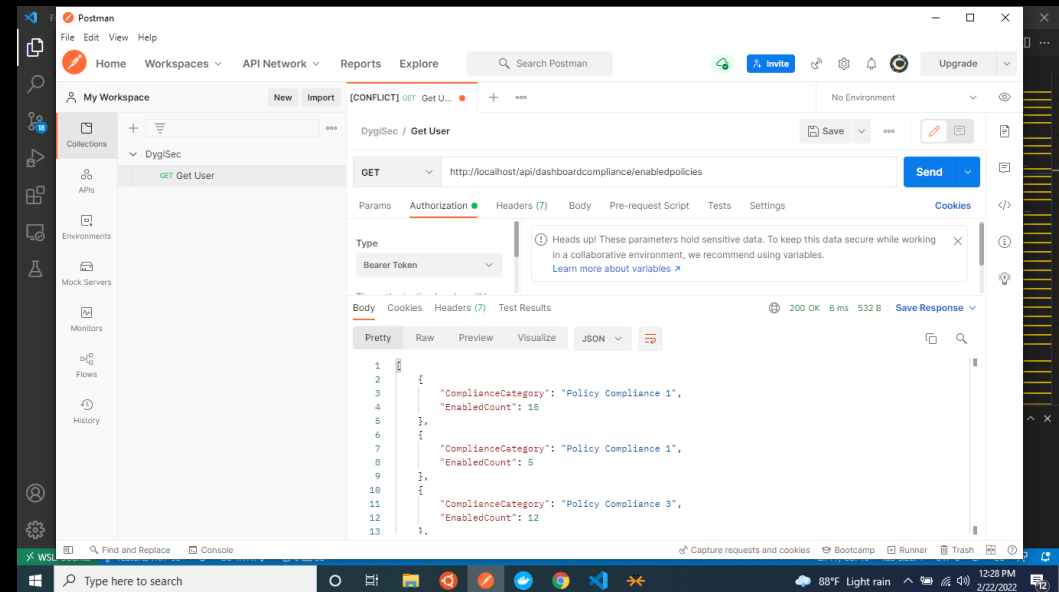
Mitra stakeholders	Shimantha Perera(Project Manager) ,Thilina Herath(Principal Architect), Deleema Fernando(Tech lead), Reshan Perera (Consultant Engineer),Tharindu Madushanka(S.S.E. (Angular)),Dinura Marsinghe(Q.A.), Kithsiri Ekanayake(UX/UI Designer),Purni Gunawardana(Business Analyst),Tharun Krishnamurthy (Associate S.E.), Saduni Maduhansani(Associate S.E.), Pasindu uduwela(Intern S.E.) , Kavish Rajakaruna(Intern S.E.)
Dygisec Stakeholder	Stefano Harding(Product Owner), Lakshitha Herath(co-owner), Chanditha Samaranayake(Project Sponsor), Rajesh Rasiah(Risk & compliance)

✓ Prior Knowledge and Works

- I was assigned as a **Golang back-end developer** by evaluating my all past projects.
- I was given two week period to familiarized with Golang , docker and Kubernetes.
- Before Going to the **Task-01** I have to fully setup the **WSL (Windows Subsystem For Linux)** working Environment on my given office laptop. I have Installed Followings on it.
 - Golang 1.17.7
 - Vscode extensions- Docker ,WSL , Kubernetes , Angular
 - Docker hub and Minikube etc.
- Cloned the Triton back-end repository from **GitHub** and I have to resolve all errors.
- Practiced more with git commands.

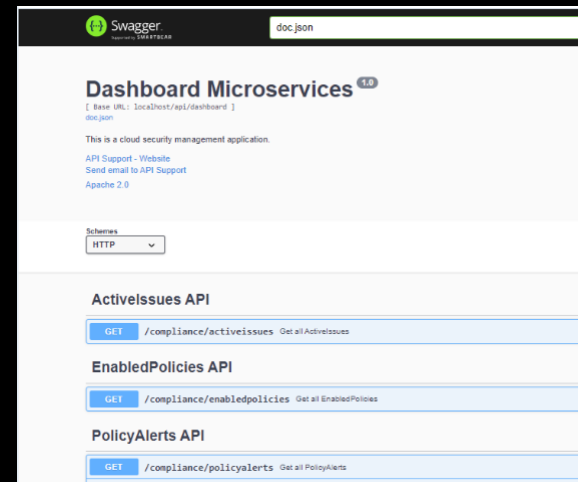
TASK-01

- In this task , I have to create **API endpoints** for the **compliance dashboard service** to retrieve some hard quoted data from the back-end.



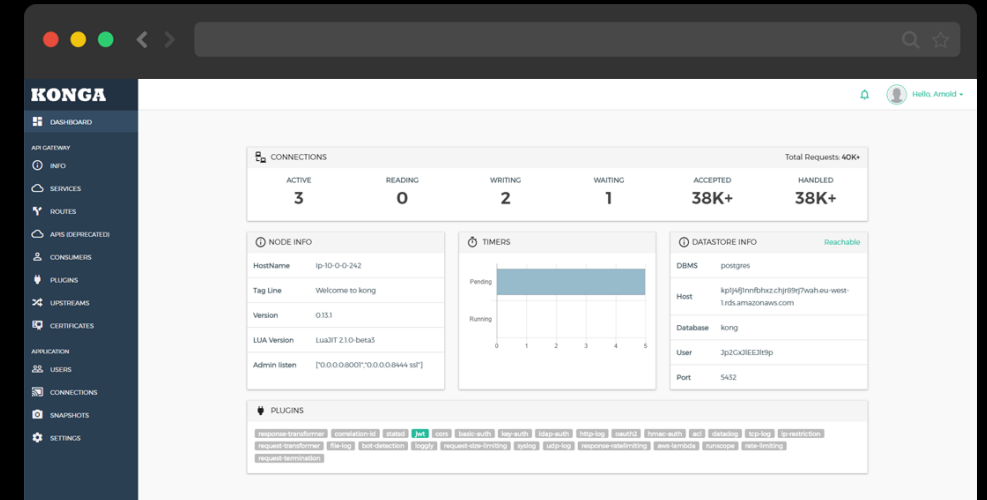
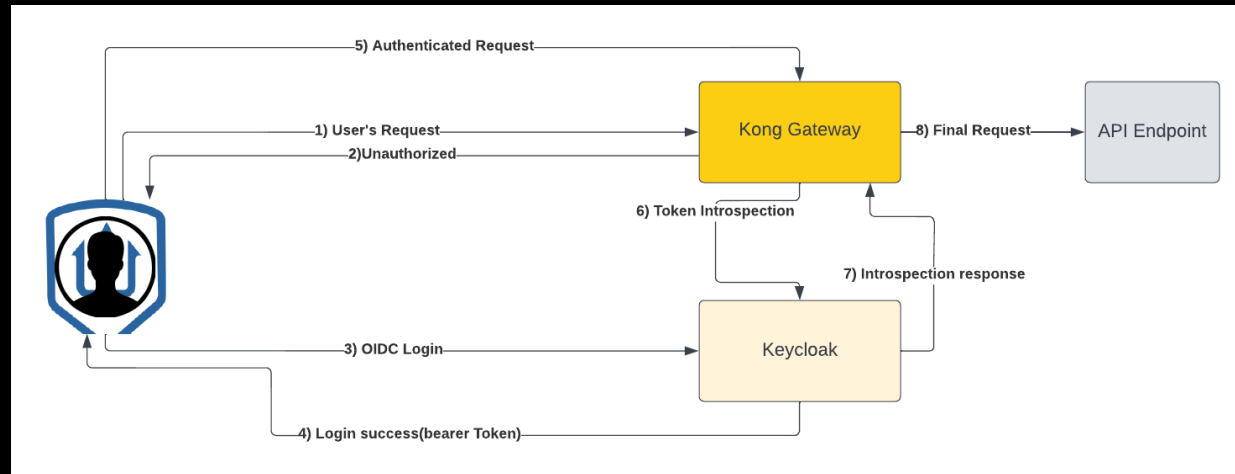
TASK-02

- All **REST API endpoints** in the project should be documented using **Swagger UI**.
 1. First, Import the necessary packages to the **handler.go** file
 2. Added the General API annotations in **main.go** file reserved for each service
 3. Added the API annotation in the **handler.go** file
 4. Execute the correct **swag init** command in correct directory path with the correct command options and arguments.
 5. Follow the same steps for all other build completed services parallelly with other assigned tasks.



TASK-03












- I was assigned to a **research** to build an OpenID connect & OAuth2.0 plugin for the Kong gateway.



TASK-04

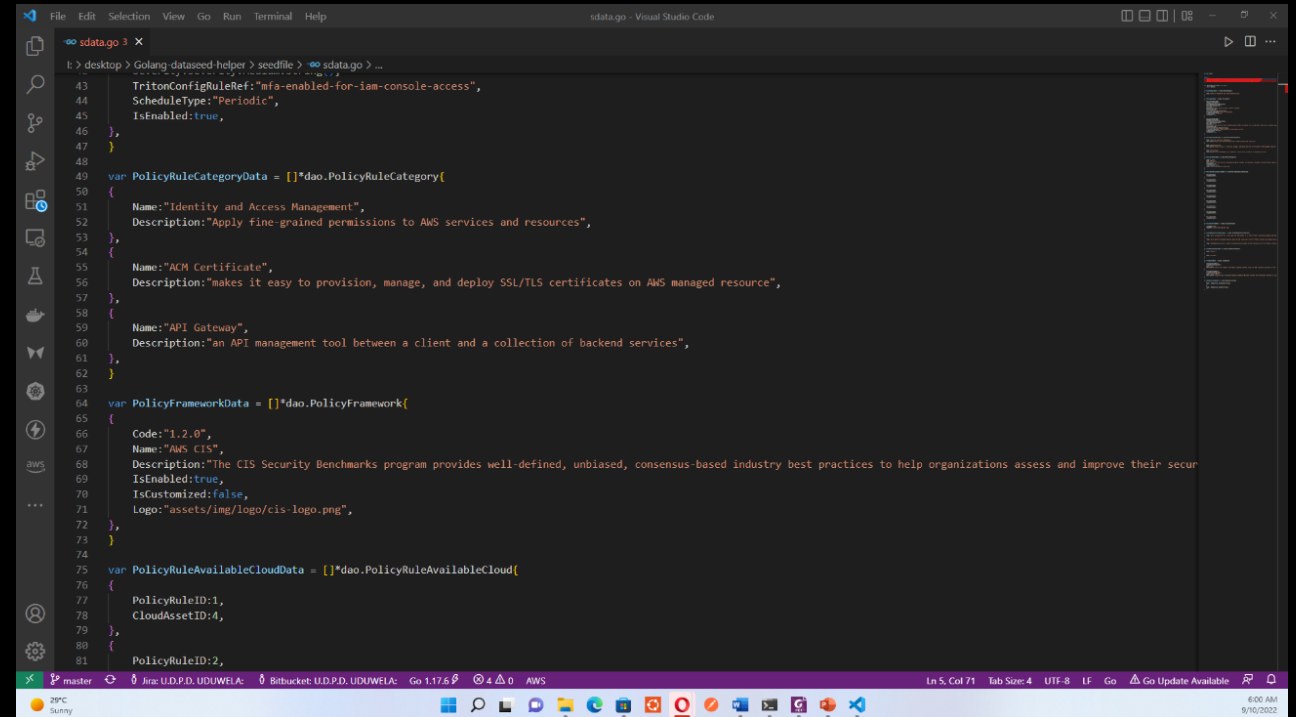
- This was a collaborative task done with one of the interns. In this task, we have to fill data into google sheets, which contain 11 tables. We have to investigate the **Triton confluence pages** where all the policies and all the data are stated. We have to consider three compliance and rule repositories. they are-

1. AWS CIS v1.2.0
2. AWS Best Practice FW
3. PCI DSS 3.2.1

<input type="checkbox"/> Name	Date modified	Type	Size
 automatedremediationtemplate.csv	5/15/2022 12:54 PM	Microsoft Excel C...	1 KB
 availablecloud.csv	5/16/2022 1:15 AM	Microsoft Excel C...	1 KB
 cloudasset.csv	5/16/2022 8:12 AM	Microsoft Excel C...	4 KB
 cloudAssetCategory.csv	5/12/2022 2:28 PM	Microsoft Excel C...	1 KB
 guidedremediationtemplate.csv	5/16/2022 1:11 AM	Microsoft Excel C...	112 KB
 policyframework.csv	5/16/2022 1:12 AM	Microsoft Excel C...	1 KB
 policyrule.csv	5/15/2022 7:02 PM	Microsoft Excel C...	51 KB
 policyruleavailablecloud .csv	5/16/2022 12:32 AM	Microsoft Excel C...	4 KB
 policyrulecategory.csv	5/16/2022 1:14 AM	Microsoft Excel C...	2 KB
 remediationtype.csv	4/29/2022 10:46 AM	Microsoft Excel C...	1 KB
 riskcategory.csv	5/11/2022 8:19 PM	Microsoft Excel C...	1 KB

Task-05

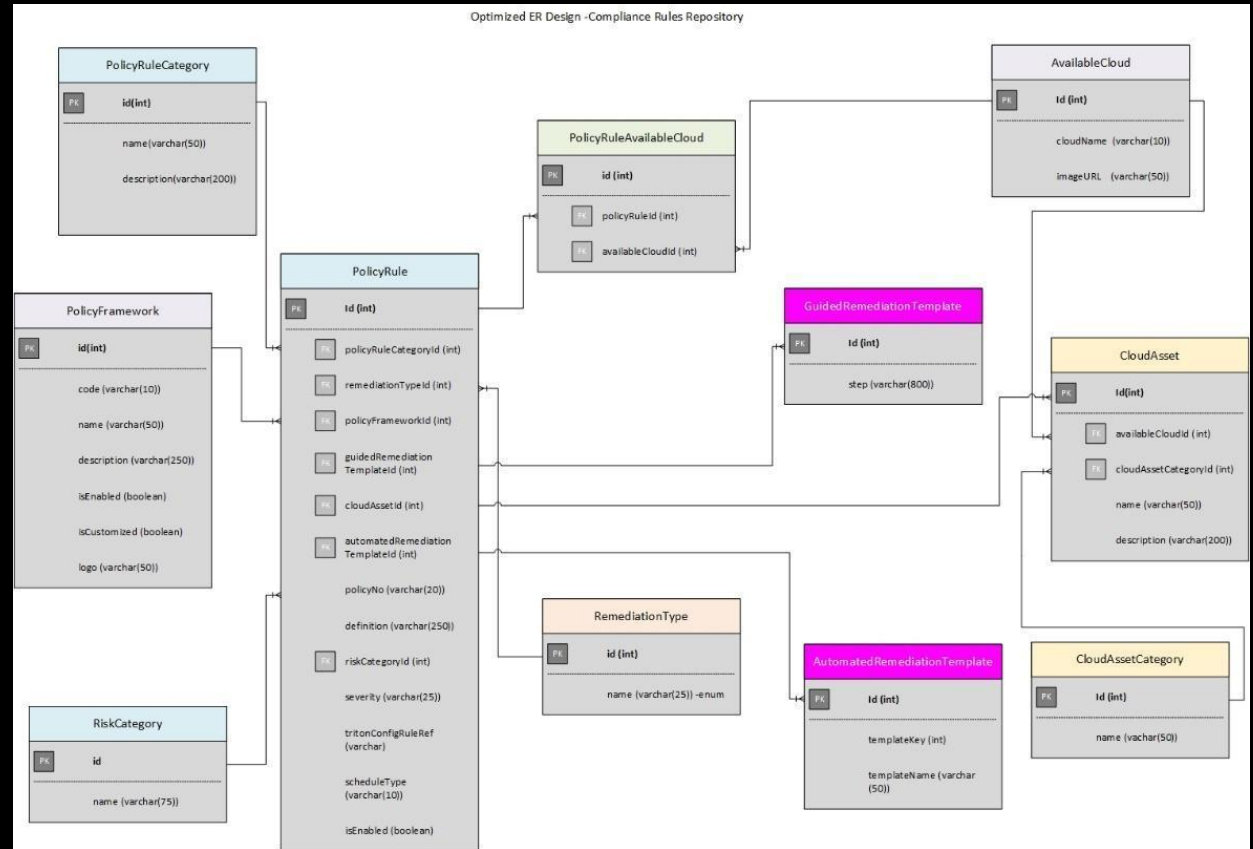
- This task was initiated to me because, at that time, I was manually creating this **sdata.go** file using the data we put into the **policy compliances-sample data feed v1.0.0.xlsx** sheet. It was a tough task to create structures manually. Therefore a separate Golang csv file reader program was built to automate this manual process.



```
43 TritonConfigRuleRef:"mfa-enabled-for-iam-console-access",
44 ScheduleType:"Periodic",
45 IsEnabled:true,
46 },
47 }
48
49 var PolicyRuleCategoryData = []*dao.PolicyRuleCategory{
50 {
51     Name:"Identity and Access Management",
52     Description:"Apply fine-grained permissions to AWS services and resources",
53 },
54 {
55     Name:"ACM Certificate",
56     Description:"makes it easy to provision, manage, and deploy SSL/TLS certificates on AWS managed resource",
57 },
58 {
59     Name:"API Gateway",
60     Description:"an API management tool between a client and a collection of backend services",
61 },
62 }
63
64 var PolicyFrameworkData = []*dao.PolicyFramework{
65 {
66     Code:"1.2.0",
67     Name:"AWS CIS",
68     Description:"The CIS Security Benchmarks program provides well-defined, unbiased, consensus-based industry best practices to help organizations assess and improve their secur
69     IsEnabled:true,
70     IsCustomized:false,
71     Logo:"assets/img/logo/cis-logo.png",
72 },
73 }
74
75 var PolicyRuleAvailableCloudData = []*dao.PolicyRuleAvailableCloud{
76 {
77     PolicyRuleID:1,
78     CloudAssetID:4,
79 },
80 {
81     PolicyRuleID:2,
```

TASK-06

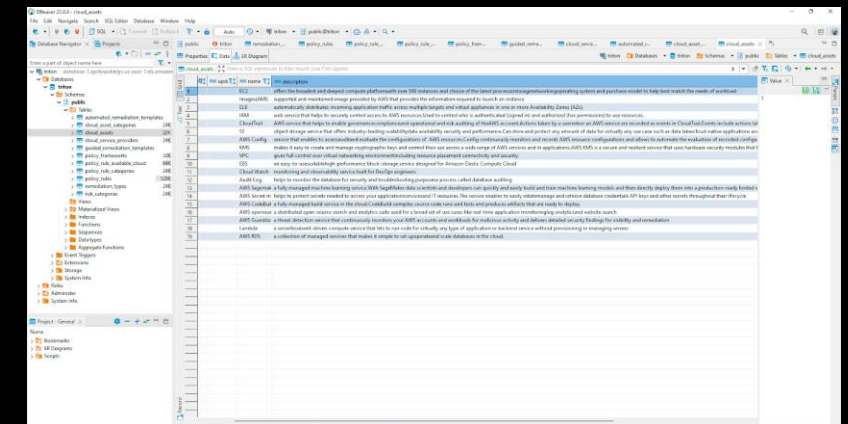
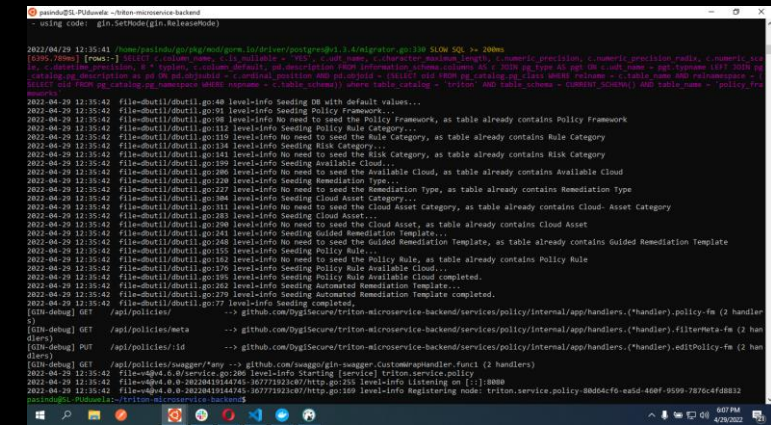
- In the beginning, there was an Entity Relationship diagram(ERD) for the **Compliance and rules repository**. But it was not optimized. We had to only modify the ERD according to the comment given by the principal architect.



TASK-07

- Another developer was initially build a data seeder using Golang. My task was to modify the seeder after the database structure changed.

- Finally I have to check the data is seeded to the local **PostgreSQL** database container by checking the **K9s** error logs and check whether the data write into the database correctly by connecting the database to **dbeaver** software.



Kubectl port-forward service/triton/triton-db-postgresql 5432:5432

TASK-08

- I have created a google sheet by Filling out all the **A.W.S. managed config rules**. Finally I have covered more than 250 rules. Bellow shows one rule as an example. The relevant sheet was shared with the respective developers and the architect.
- Example 1 –
S3-bucket-public-read-prohibited - Check for buckets that allow public read access through bucket policy or ACL

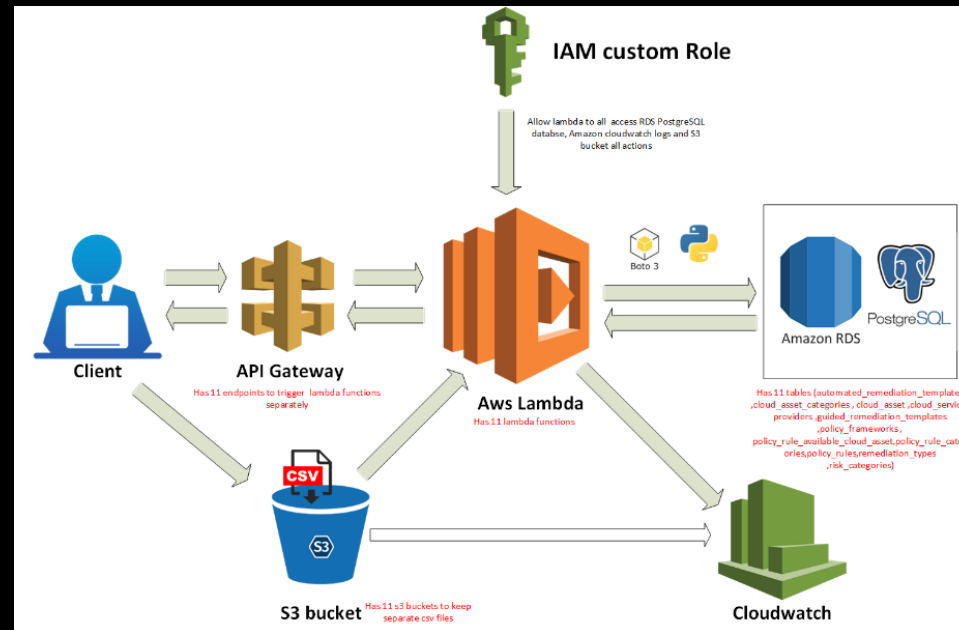
s3-bucket-public-read-prohibited

	Rule	Command 1	Command 2
1	The Block Public Access setting restricts public policies or the bucket policy does not allow public read access	aws s3api get-public-access-block --bucket my-bucket	aws s3api get-bucket-acl --bucket config-bucket-423703969986
	"BlockPublicPolicy": true		"Permission": "WRITE"
2	The Block Public Access setting restricts public ACLs or the bucket ACL does not allow public read access.	aws s3api get-public-access-block --bucket my-bucket	aws s3api get-bucket-acl --bucket config-bucket-423703969986
	"BlockPublicAcls": true		"Permission": "WRITE"
3	If the Block Public Access setting does not restrict public policies, AWS Config evaluates whether the policy allows public read access. If the policy allows public read access, the rule is noncompliant.	aws s3api get-public-access-block --bucket my-bucket	aws s3api get-bucket-acl --bucket config-bucket-423703969986
	"BlockPublicPolicy": false		"Permission": "READ/FULL_CONTROL"
4	If the Block Public Access setting does not restrict public bucket ACLs, AWS Config evaluates whether the bucket ACL allows public read access. If the bucket ACL allows public read access, the rule is noncompliant.	aws s3api get-public-access-block --bucket my-bucket	aws s3api get-bucket-acl --bucket config-bucket-423703969986
	"BlockPublicAcls": false		"Permission": "READ/FULL_CONTROL"

	Rule	Command 1	Command 2	Status1	Status2 { If (Rule == 1 && status1=="true") (Rule == 2 && status1=="true") (Rule == 3 && status1=="true") (Rule == 4 && status1=="true") }	Status3 { If [(Rule == 1 && status2=="true") && (Rule == 2 && status2=="true") [(Rule == 3 && status2=="true") && (Rule == 4 && status2=="true")] }]	Output
OR	1	true	true	true	true	true	Compliant
		false	true	true			
		true	false	true			
		false	false	false			
	2	true	true	true	true		
		false	true	true			
		true	false	true			
		false	false	false			
AND	3	true	true	true	true	true	noncompliant
		false	true	false			
		true	false	false			
		false	false	false			
	4	true	true	true	true		
		false	true	false			
		true	false	false			
		false	false	false			

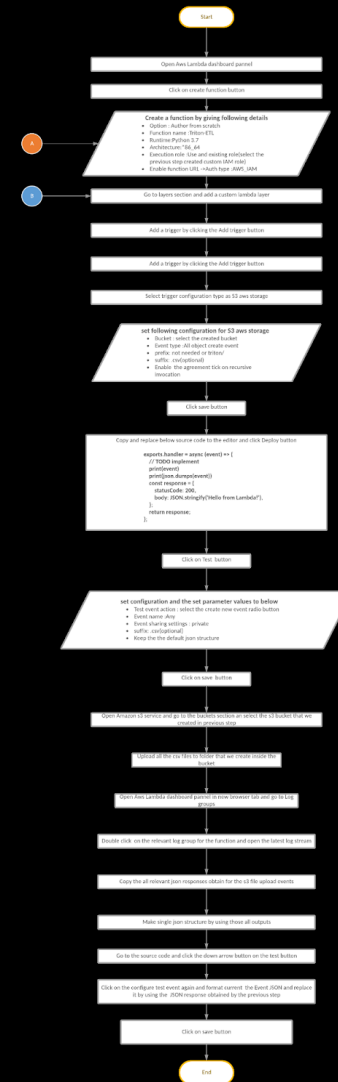
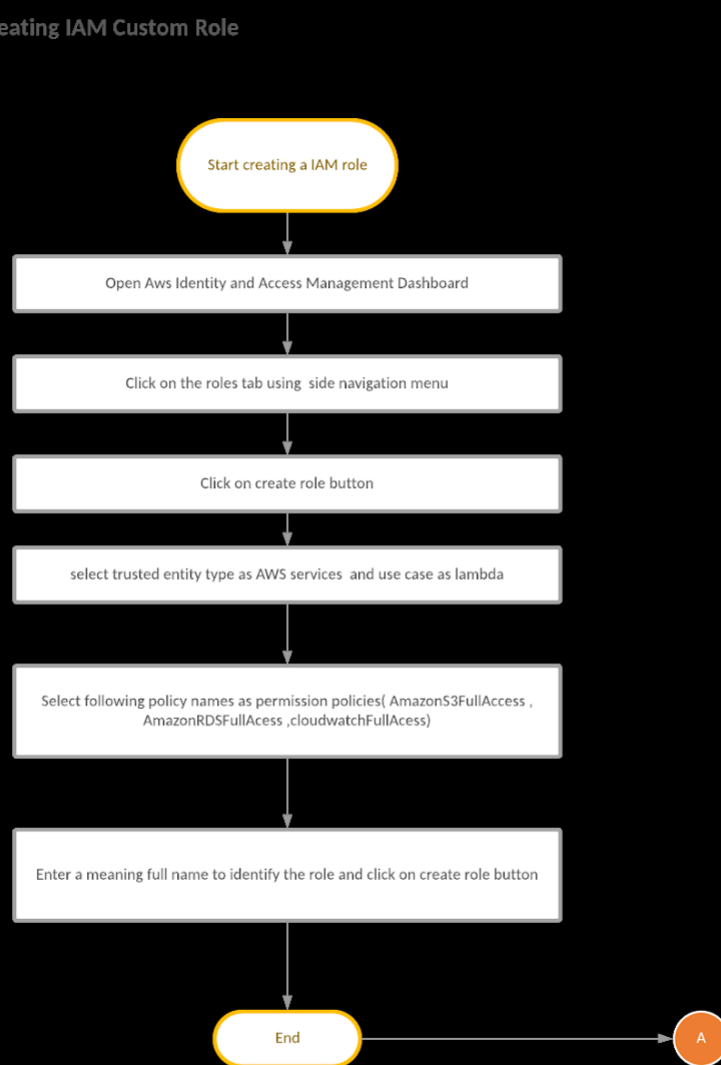
TASK-09

- In the project, after deploying the application on **AWS Elastic Kubernetes service(EKS)**, if the client needed to update the **data-related policies** from the database side, there were no possible methods to do it while the system was up and running. Therefore I have assigned a task to create an **Extract Transform Load(ETL)** to read files from the **S3 bucket** and load them into the AWS **RDS PostgreSQL** database.

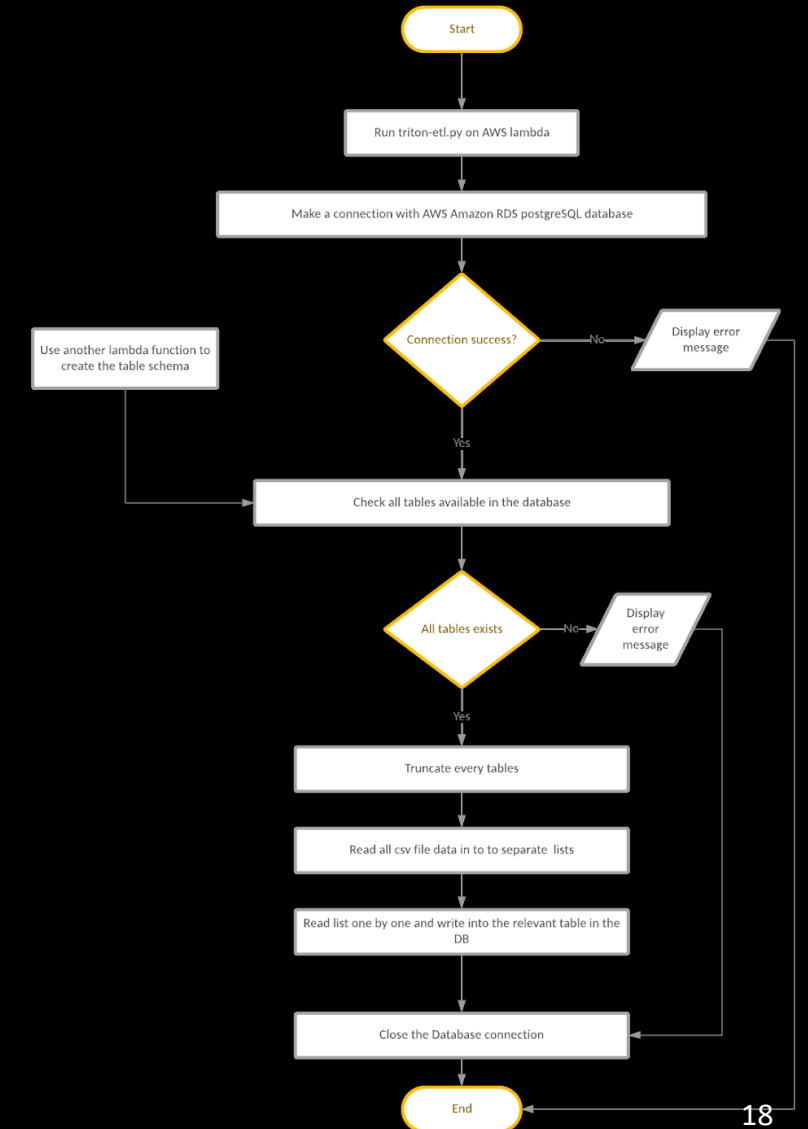


Proposed workflow diagrams for the designed ETL

Flow Diagram on Creating IAM Custom Role

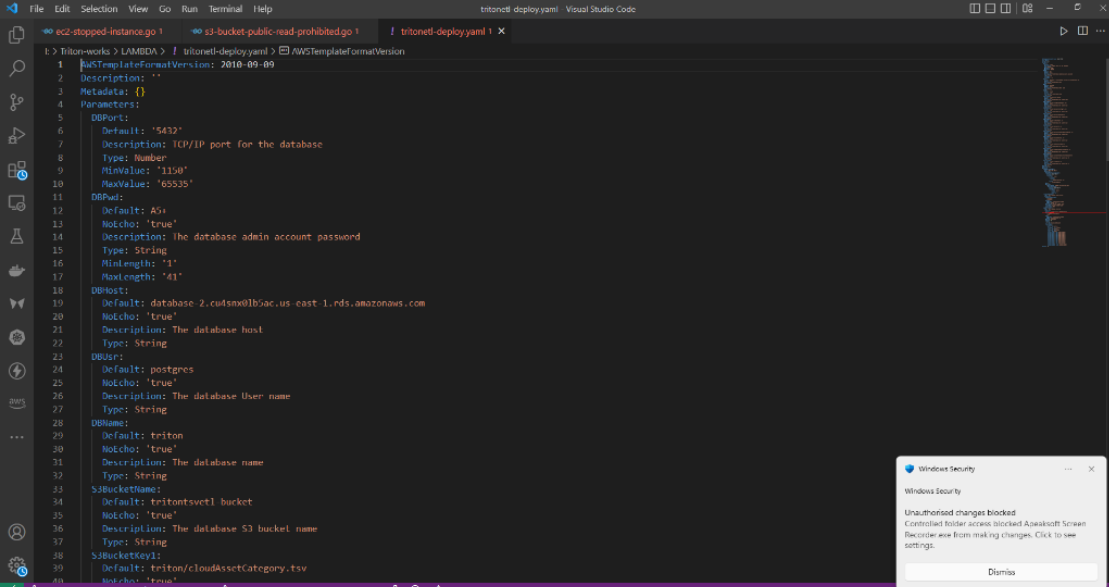


Triton-ETL work flow diagram



TASK-10

Here the task was to automate the Extract Transform Load(ETL) deployment process; for that, I had to use the **AWS cloud formation service**. In this project, I created the **YAML**. However, we can use either YAML or JSON to automate the process.

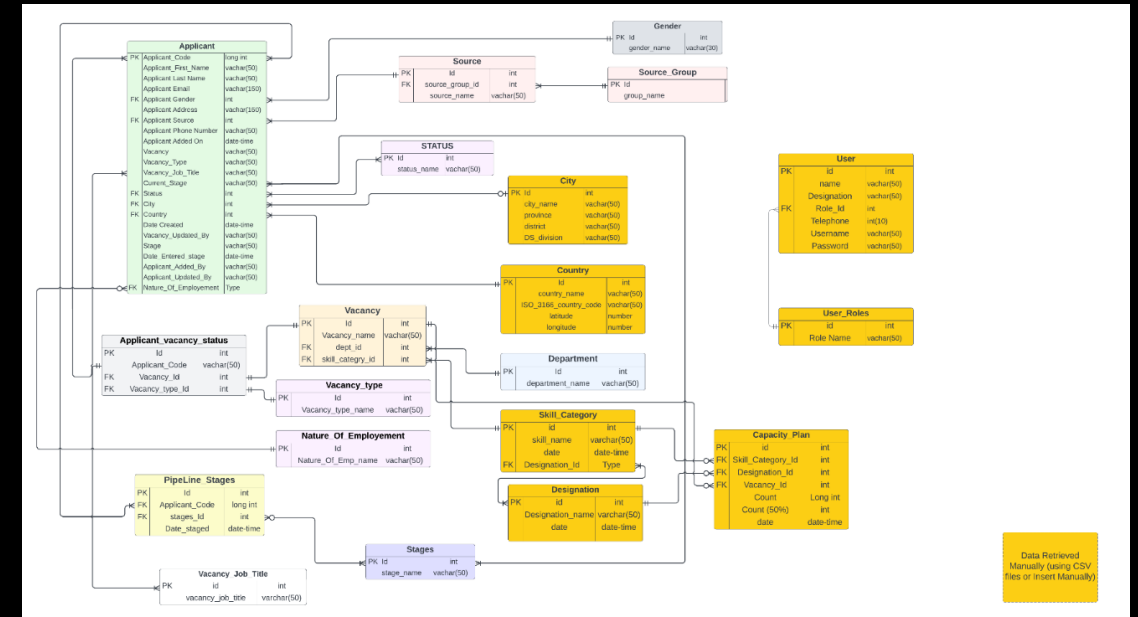


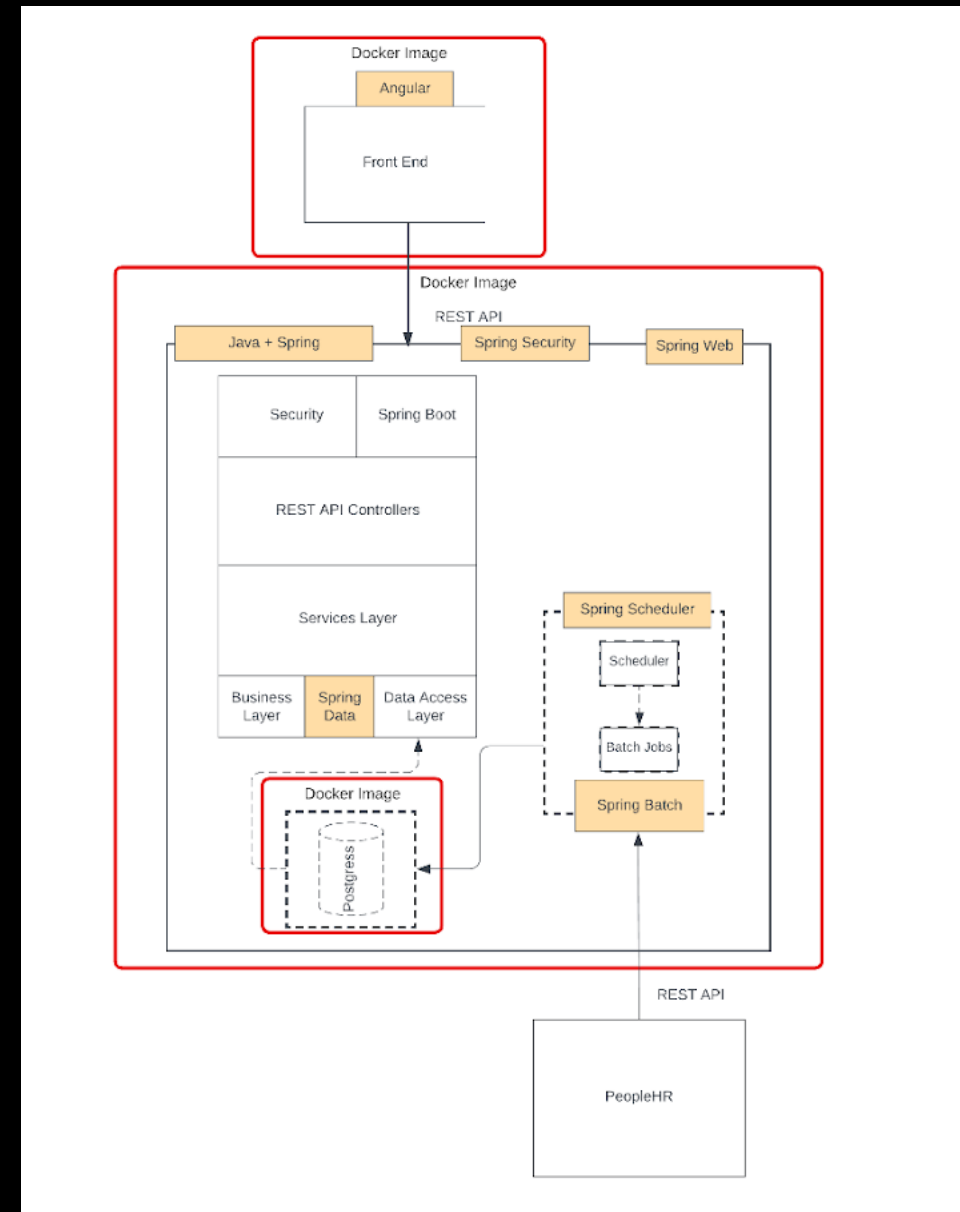
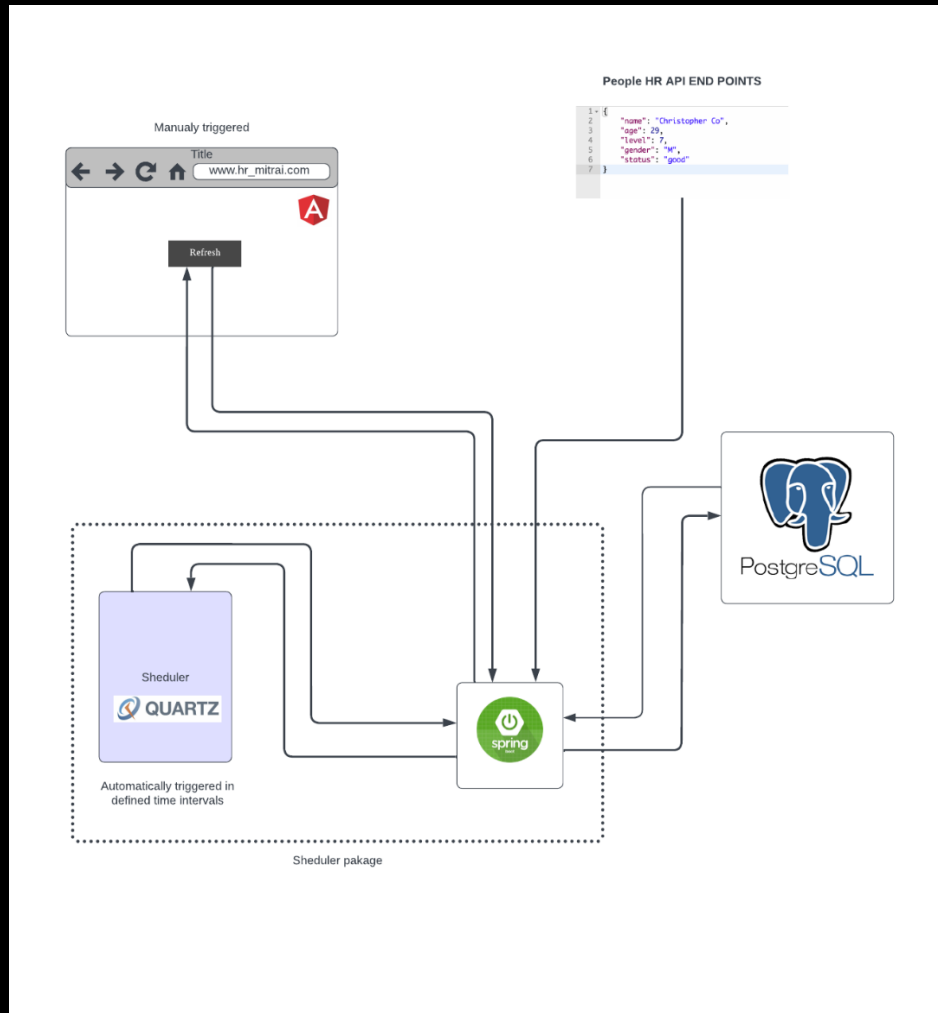
```
1 AWSTemplateFormatVersion: 2010-09-09
2 Description: ''
3 Metadata: {}
4 Parameters:
5   DBPort:
6     Default: '5432'
7     Description: TCP/IP port for the database
8     Type: Number
9     MinValue: '1150'
10    MaxValue: '65535'
11   DBPass:
12     Default: AS
13     NoEcho: 'true'
14     Description: The database admin account password
15     Type: String
16     MinLength: '1'
17     MaxLength: '41'
18   DBHost:
19     Default: database-2.cudsmvbl6ac.us-east-1.rds.amazonaws.com
20     NoEcho: 'true'
21     Description: The database host
22     Type: String
23   DBUser:
24     Default: postgres
25     NoEcho: 'true'
26     Description: The database user name
27     Type: String
28   DBName:
29     Default: triton
30     NoEcho: 'true'
31     Description: The database name
32     Type: String
33   S3BucketName:
34     Default: tritontsvet1-bucket
35     NoEcho: 'true'
36     Description: The database S3 bucket name
37     Type: String
38   S3BucketKey1:
39     Default: triton/cloudAssetCategory.tsv
```

Applicant Tracking System

TASK-1

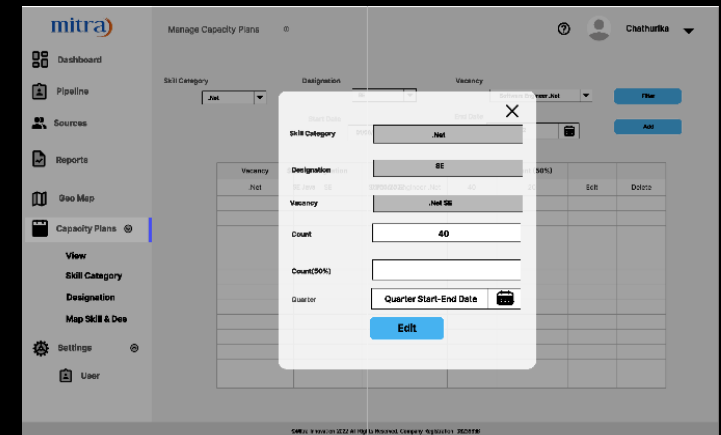
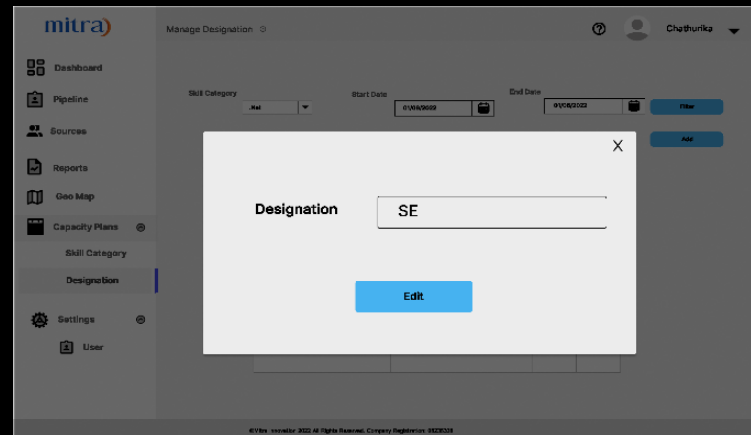
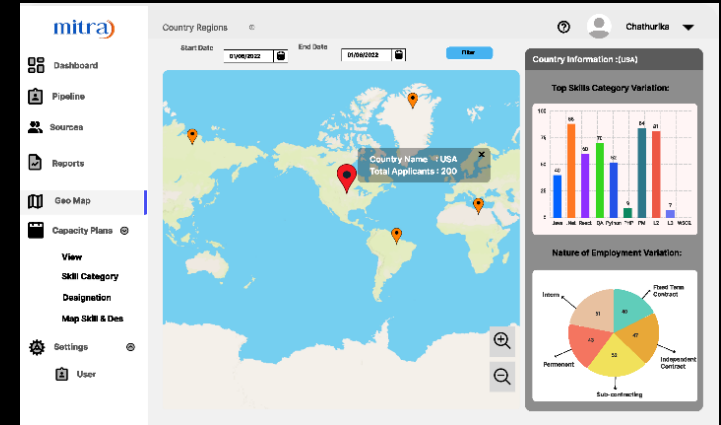
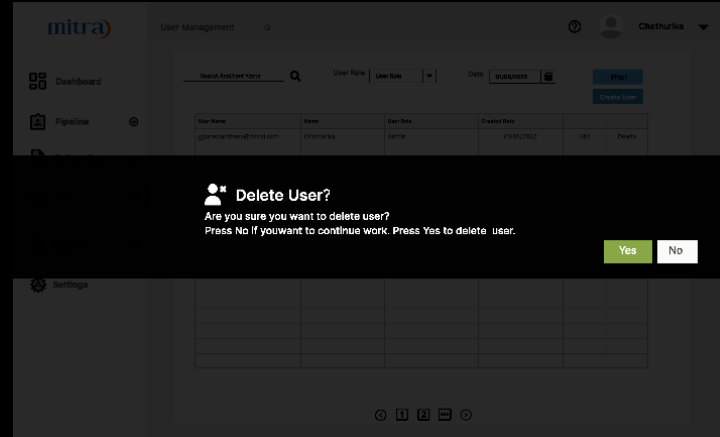
- Create a relational database and design the ER diagram for ATS by observing the entities through the peopleHR sandbox environment.
- Create a scheduler to sync both peopleHR data with currently propose ATS application.





TASK-02

- Designed some wireframes for the ATS using FIGMA UX/UI design tool.



Task-03

- This is a collaborative task assigned to all developers in which we have to fill the **Mitra 3-point estimation sheet**. The primary purpose is to get a rough idea about the **project duration**. This helps to draw the timeline using Atlassian project management tools.

File

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Data

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TASK-04

- This was a collaborative task assigned to all the developers in the applicant tracking system project.
- Project time line and the grant chart was designed using the **Jira project management tools**.



❖ Things I have learned during my Internship

Technical

- Golang gin web framework
- Kong
- OpenID Connect
- OAuth2.0
- Swagger
- ETL
- AWS services
- PostgreSQL
- Neo4j
- Data seeder
- GORM
- WSL
- Load balancing
- Docker
- Kubernetes
- Spring scheduler
- Keycloak
- Git/GitHub

Non-Technical

- Jira project management
- Agile development
- Team Burnout
- Project Escalation
- Adaptability
- Documentation
- Communication Skills
- Presentation Skills
- Pressure handling
- Team Collaboration
- Industry Best Practices

THANK YOU !