



Intelligent Tutoring System Weekly Slides # 2

By Tomatokiller

Date: 11 June, 2022

Our Team



YONGRU
QIAN



JIAHAO
LIU



XIAOCHI
LI



JOY



RICH



ALVARO

Summary of this week



Intelligent-Tutoring-System

The AI Tutor System is a powerful educational assistance tool that can tailor learning plans, match learning resources, dynamically track learning progress, and adjust learning plans in real time to meet the needs of students.



Tailor learning
plans

Match learning
resources

Dynamically
track learning
progress

Adjust learning
plans in real
time

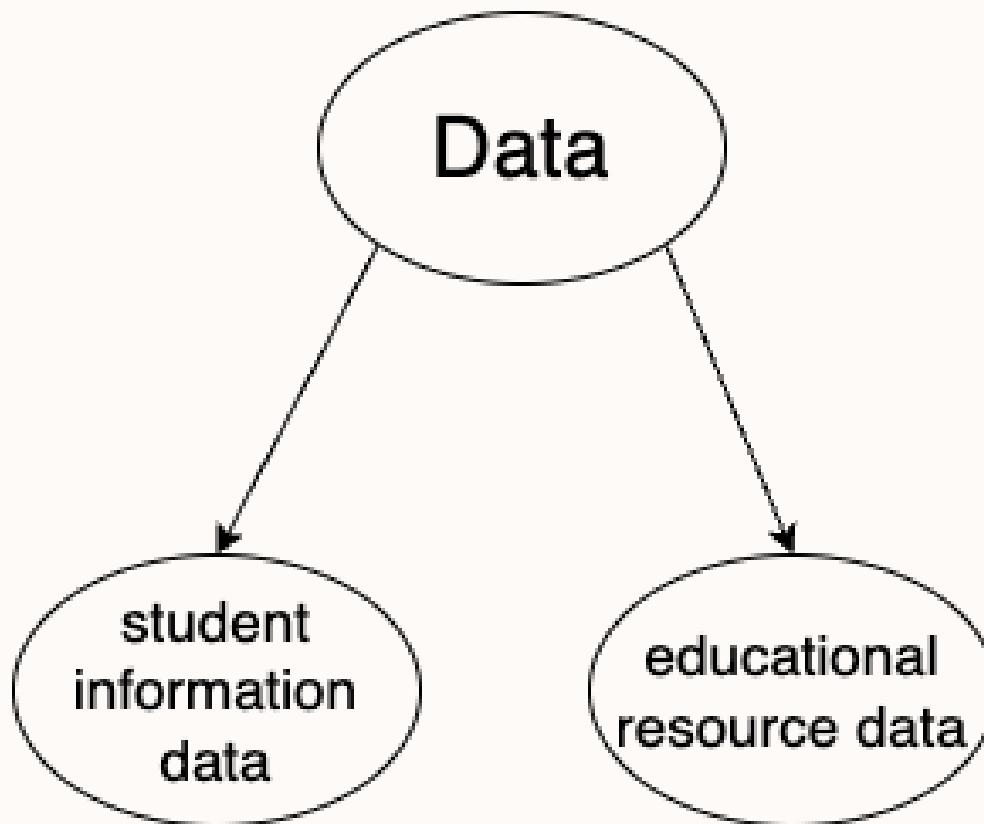
Time Plan

Sprint	Goals	Deadline
Sprint 1: Planning and Requirements	Define project scope, gather detailed requirements, finalize system architecture, identify technologies to use	12 June
Sprint 2: Setup and Core Development	Setup development environment, create database schema, design & implement student registration and login functionality	19 June
Sprint 3: Adaptive Learning Components	Develop adaptive lessons, quizzes, and exercises, integrate OpenAI model for personalized feedback	26 June
Sprint 4: Learning Outcomes Tracking	Implement system to track and visualize student's learning outcomes, strengths, weaknesses, provide recommendations	03 July
Sprint 5: Multimodal Content Delivery	Implement support for multiple languages, formats, and modalities of content delivery	10 July
Sprint 6: Web Interface Development	Design and develop a responsive web-based interface, ensure compatibility with multiple device types and browsers	17 July
Sprint 7: Testing, Deployment, and Documentation	Conduct thorough testing, deploy the system on AWS services, create system documentation	24 July

Role

Name	Role1	Role2
YONGRU QIAN	Database Developer	Back-end Developer
JIAHAO LIU	Back-end Developer	
XIAOCHI LI	DevOps Engineer	
ALVARO	Font-end Developer	
WEIMING SUN	Tester	UX Lead
CHIH-YU HUANG	Project Manager	Tester

Data Plan



Github

[vriusc / Intelligent-Tutoring-System](#) Private

[Code](#) [Issues](#) [Pull requests](#) [Actions](#) [Projects](#) [Wiki](#) [Security](#) [Insights](#) [Settings](#)

[cicd-test](#) 3 branches 0 tags [Go to file](#) [Add file](#) [Code](#)

This branch is 1 commit ahead, 5 commits behind main. [Contribute](#)

xiaochili first commit	5347599 15 hours ago	⌚ 2 commits
helm/vprofilecharts	first commit	15 hours ago
kubernetes	first commit	15 hours ago
src	first commit	15 hours ago
Dockerfile	first commit	15 hours ago
Jenkinsfile	first commit	15 hours ago
README.md	first commit	15 hours ago
pom.xml	first commit	15 hours ago
test	first commit	15 hours ago

Manage access

[Add people](#)

[Select all](#) [Type](#) ▾

[Find a collaborator...](#)

<input type="checkbox"/>	AlvaroPattyUCD Collaborator	Remove
<input type="checkbox"/>	Joy Huang BOBOeternal • Collaborator	Remove
<input type="checkbox"/>	TomatoKiller everEverglow • Collaborator	Remove
<input type="checkbox"/>	RichMillions1 Collaborator	Remove
<input type="checkbox"/>	xiaochili Collaborator	Remove

Team Management

Microsoft Teams

TK Tomato Killer ...
UCD Final project with the Intelligent Tutoring System

成员 频道 分析 应用 标记

搜索成员 添加成员

▼ 负责人 (1)

姓名	职务	地点	标记	角色
AC Alvaro Mauricio Patty Cruz	student			所有者

▼ 成员和来宾 (5)

姓名	职务	地点	标记	角色
XL Xiaoichi Li	student			成员
YQ Yongru QIAN	student			成员
WS Weimin Sun	student			成员
CH CHIH-YU HUANG	student			成员
JL Jiahao Liu	student			成员

2023年6月8日

YQ 6/6 16:01
我已在此频道的顶部添加一个选项卡。请查看!

13 June Presentation

来自 Alvaro Mauricio 和 Chih-Yu 的 2 个回复

CH 6/8 13:52
Hey, Tomato Killer!
I've added four tasks in it, please take a look at the description of each task and start brainstorming. These are the things lecturers would like to know on our next Tuesday presentation.
Please make sure everyone has some idea in mind to discuss on our next meeting, so that we could finalize our project topic
[查看更多信息](#)

1 回复

2023年6月10日

YQ 6/10 08:49
团队所有者 Please take a look at my work on the motivation section and leave feedback

今天

“General”中的会议已结束: 29 分 30 秒

出席报表
单击此处下载出席报表

Trello

Tomato Killer 非公开

邀请工作区成员

成员列表

工作区看板成员

工作区成员 (5)

工作区成员可以查看和加入所有工作区可见看板并在该工作区中创建新看板。

访客

待定

邀请成员加入您

任何拥有邀请链接的人都可以加入此免费工作区。你还可以随时停用并为此工作区创建新的邀请链接。

停用邀请超链接 使用链接邀请

按姓名筛选

成员	状态	操作
Alvaro Mauricio Patty Cruz @alvaromauriciopattycruz	在 2 看板上	管理员 移除...
Joy Huang @joyhuang76	在 2 看板上	管理员 移除...
millions Rich @millionsrich	在 2 看板上	管理员 移除...
Xiaochi Li @xiaochili1	在 2 看板上	管理员 移除...
Yongru Qian @yongruqian	在 2 看板上	管理员 离开

13 June Presentation

看板

Slack Power-Ups 自动化 筛选 分享

To Do

+ 添加卡片

Doing

Evaluation

+ 添加卡片

Done

Motivation

Architecture setup

Project Plan

Work Distribution

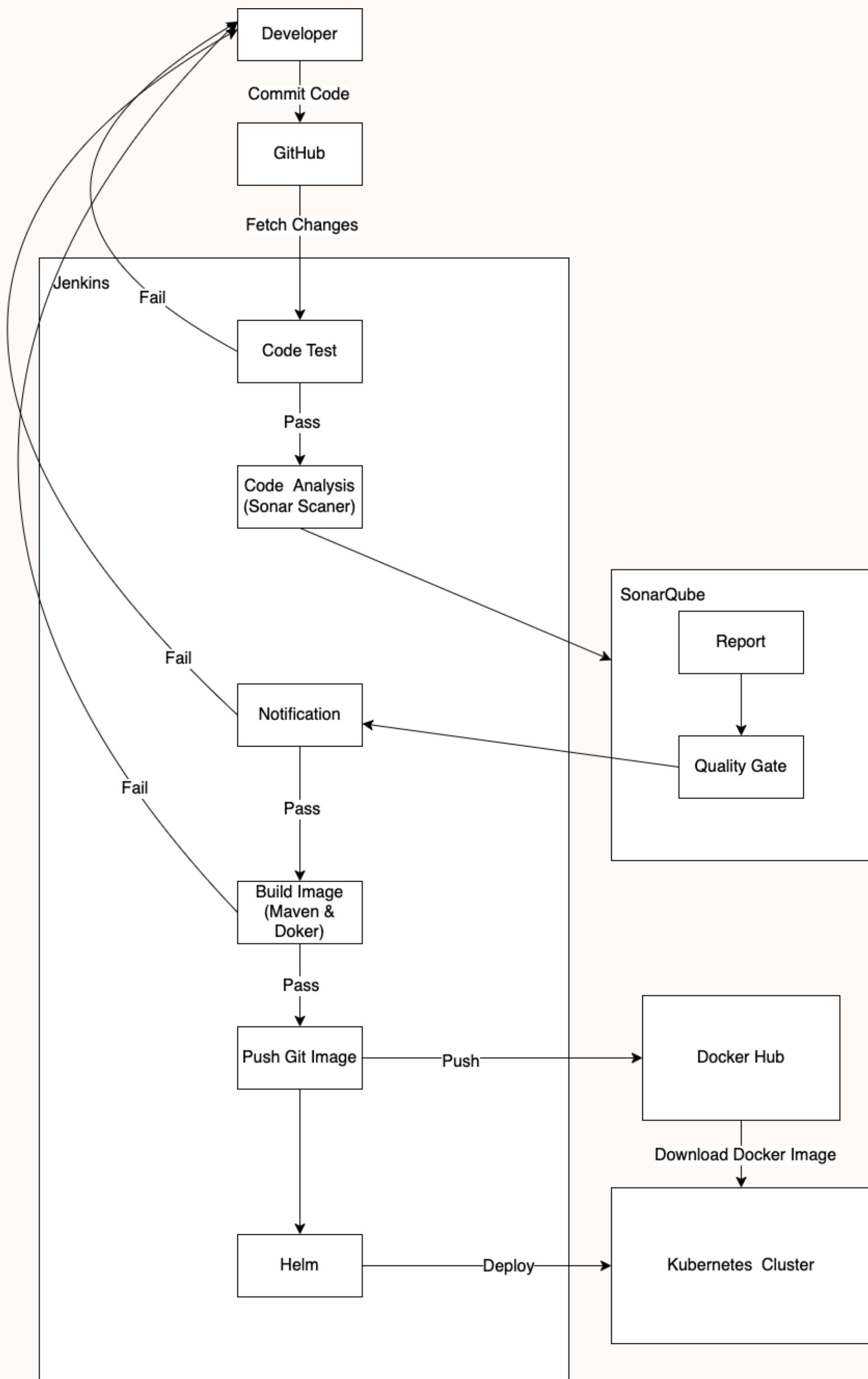
Use case

Show and Tell #2 Slides

+ 添加卡片

+ 添加另一个列表

Architecture



CI/CD

Jenkins

Dashboard > kube-cicd >

Pipeline kube-cicd

Status

</> Changes

▷ Build Now

Configure

Delete Pipeline

Full Stage View

SonarQube

Rename

Pipeline Syntax

Git Polling Log

Build History trend ▾

Filter builds... /

#2 6月 11 1 commit 0:30

Average stage times: (Average full run time: ~1min 40s)

Declarative: Checkout SCM BUILD UNIT TEST INTEGRATION TEST CODE ANALYSIS WITH CHECKSTYLE CODE ANALYSIS with SONARQUBE BUILD DOCKER IMAGE UPLOAD IMAGE REMOVE DOCKER IMAGE KUBERNETES DEPLOY

Declarative: Checkout SCM	BUILD	UNIT TEST	INTEGRATION TEST	CODE ANALYSIS WITH CHECKSTYLE	CODE ANALYSIS with SONARQUBE	BUILD DOCKER IMAGE	UPLOAD IMAGE	REMOVE DOCKER IMAGE	KUBERNETES DEPLOY
452ms	18s	14s	20s	11s	23s	1s	2s	362ms	3s
470ms	17s	14s	20s	11s	21s (paused for 1s)	1s	2s	357ms	5s
434ms	19s	14s	19s	11s	24s (paused for 2s)	1s	2s	367ms	2s

#1 6月 11 No Changes 0:08

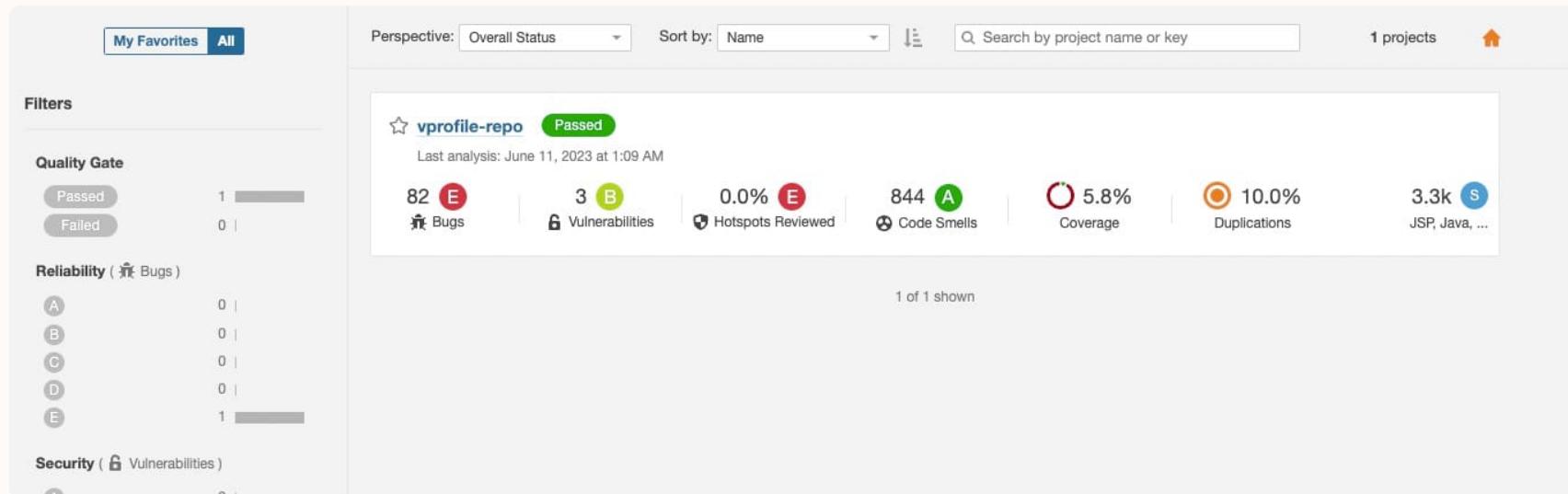
SonarQube Quality Gate

vprofile-repo Passed

server-side processing: Success

CI/CD

SonarQube



CI/CD

AWS Console

The screenshot shows the AWS EC2 Instances page with the following details:

Instances (6) Info

Notifications: 0 New, 0 In progress, 3 Pending, 0 Failed.

Filters: running

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
kops	i-087e14eb6becb4bf	Running	t2.micro	2/2 checks passed	No alarms	+ us-east-1d	ec2-3-87-224-85
nodes-us-east-1b.vprofile.tomatokillerucd.com	i-01bbc22975e52d7fb	Running	t2.small	Initializing	No alarms	+ us-east-1b	ec2-3-84-75-150
nodes-us-east-1a.vprofile.tomatokillerucd.com	i-05d3a11271aa888b5	Running	t2.small	Initializing	No alarms	+ us-east-1a	ec2-3-90-225-41
control-plane-us-east-1a.masters.vprofile.tomatokillerucd.com	i-017744813be88cc23	Running	t3.small	2/2 checks passed	No alarms	+ us-east-1a	ec2-52-90-163-1
jenkins	i-0f568980edc2582d3	Running	t2.small	2/2 checks passed	No alarms	+ us-east-1d	ec2-18-204-195-
Sonar	i-065c2c11f6d494d59	Running	t2.medium	2/2 checks passed	No alarms	+ us-east-1d	ec2-44-212-63-1

Select an instance

CloudShell Feedback Language © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

CI/CD

K8s KOPS Server

```
key — ubuntu@ip-172-31-90-76: ~/cicd-kube-docker/kubernetes/vpro-app — ssh -i vprofile-prod-key.pem ubuntu@ec2-3-87-224-85.compute-1..  
[ubuntu@ip-172-31-90-76:~/cicd-kube-docker/kubernetes/vpro-app]$ kubectl get all --namespace prod  
NAME           READY   STATUS    RESTARTS   AGE  
pod/vproapp-684ddbd54-tn6t6   1/1     Running   0          10m  
pod/vprodbs-849f57645b-tjxhr  1/1     Running   0          10m  
pod/vpromc-5c65464866-4pv8z   1/1     Running   0          10m  
pod/vpromq01-69b8ff77dc-cmff7 1/1     Running   0          10m  
  
NAME            TYPE        CLUSTER-IP      EXTERNAL-IP                                     PORT(S)  
AGE  
service/vproapp-service   LoadBalancer   100.69.28.237   a04d6d210939d4991a5fd49ea3ae8f7e-852334555.us-east-1.elb.amazonaws.com   80:32172/TCP  
10m  
service/vprocache01       ClusterIP     100.64.130.5    <none>                                         11211/TCP  
10m  
service/vprodbs          ClusterIP     100.67.49.244   <none>                                         3306/TCP  
10m  
service/vpromq01          ClusterIP     100.68.20.236   <none>                                         5672/TCP  
10m  
  
NAME           READY   UP-TO-DATE   AVAILABLE   AGE  
deployment.apps/vproapp   1/1     1           1           10m  
deployment.apps/vprodbs   1/1     1           1           10m  
deployment.apps/vpromc   1/1     1           1           10m  
deployment.apps/vpromq01  1/1     1           1           10m  
  
NAME           DESIRED   CURRENT   READY   AGE  
replicaset.apps/vproapp-684ddbd54  1         1         1         10m  
replicaset.apps/vprodbs-849f57645b  1         1         1         10m  
replicaset.apps/vpromc-5c65464866  1         1         1         10m  
replicaset.apps/vpromq01-69b8ff77dc  1         1         1         10m  
[ubuntu@ip-172-31-90-76:~/cicd-kube-docker/kubernetes/vpro-app]$ 
```

Next Week Plan



Login registration

Task: Complete login and registration related functions

Due Time : 20 June

20 June Presentation

☆ 工作区可见

看板



Power-Ups

自动化

筛选

YQ AC JH MR XL

分享



待办

进行中

完成

+ 添加另一个列表

Front End Login Dev

6月13日 - 6月15日

AC

Database Dev

6月13日 - 6月15日

YQ

Back End Login Dev

6月13日 - 6月15日

YQ

Dev and Test Env

6月13日 - 6月15日

XL

Functional Design stage1

6月13日 - 6月16日

JH MR XL YQ

Docker and K8s file

6月16日 - 6月16日

AC XL YQ

+ 添加卡片

+ 添加卡片

完成

+ 添加卡片

完成





THANK YOU