

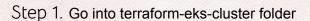


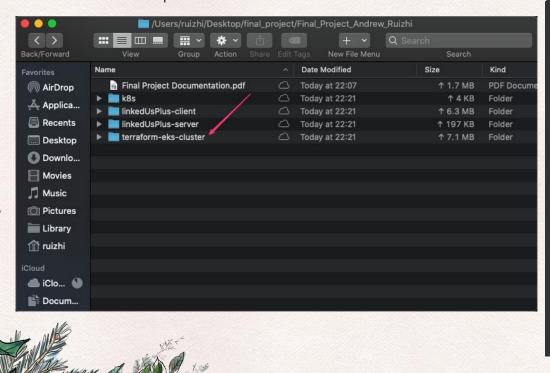
Deployment Process

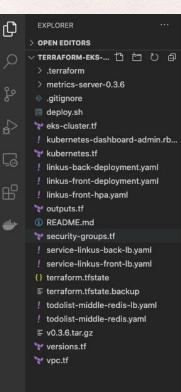
Step O Prerequisites

- 0.1 Install AWS CLI
- 0.2 Install terraform
- 0.3 Execute aws configure command to configure the AWS setting









Step 2. Execute the following command(it might take about 15 minutes)

terraform init

terraform plan

terraform apply



Step 3. After resources are created, execute the following command so that all services and pods will be deployed /deploy.sh

```
    deploy.sh

      #configure kubectl
      aws eks --region $(terraform output region) update-kubeconfig --name $(terraform output cluster_name)
      #wget -0 v0.3.6.tar.gz https://codeload.github.com/kubernetes-sigs/metrics-server/tar.gz/v0.3.6 && tar -xzf v0.3.6.tar.gz
      kubectl apply -f metrics-server-0.3.6/deploy/1.8+/
      #Deploy k8s dashboard
      kubectl apply -f https://raw.githubusercontent.com/kubernetes/dashboard/v2.0.0-beta8/aio/deploy/recommended.yaml
      #Deploy LinkedUs Web App
      kubectl apply -f todolist-middle-redis.yaml
      kubectl apply -f linkus-front-deployment.yaml
      kubectl apply -f linkus-back-deployment.yaml
      #Deploy Service
      kubectl create -f todolist-middle-redis-lb.yaml
      kubectl create -f service-linkus-front-lb.yaml
      kubectl create -f service-linkus-back-lb.yaml
      kubectl create -f linkus-front-hpa.yaml
      #Get All Service
      kubectl get svc
      #Run Proxy Server
      #kubectl proxy
```

Step 4. Execute the following command to get service kubectl get service

The result will like following



Step 5. The working url will become frontURL?webapp=http://backURL

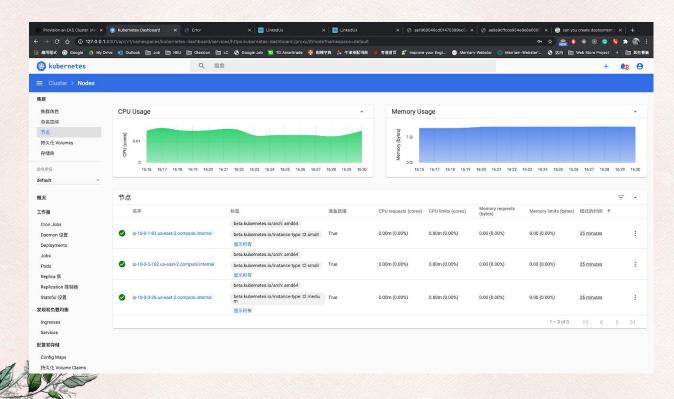
For example:

http://aaba79a7be3cb4e2b9a8f672d8495ec7-373431062.us-east-2.elb.amazonaws.com/?webapp=http://a3fab6a4388394b4abb1f75974c60b50-1517126495.us-east-2.elb.amazonaws.com



Bonus Points

Monitor



Bonus Point

Horizontal Scaling

andrew@Andrewde-MacBook-Pro k8s % kubectl get deploy,hpa									
NAME	REĀDY	UP-TO-DATE	AVAILABLE	AGE					
deployment.apps/linkus-back	1/1	1	1	35m					
deployment.apps/linkus-front	2/2	2	2	35m					
<pre>deployment.apps/todolist-middle-redis</pre>	1/1	1	1	36m					
	REÁDY ÜP-ŤÓ-ĎATE AVAILABLE AGE apps/linkus-back 1/1 1 1 35m apps/linkus-front 2/2 2 2 35m apps/todolist-middle-redis 1/1 1 1 36m REFERENCE TARGETS MINPODS MAXPODS REPLICAS AGE bodautoscaler.autoscaling/linkus-front-hpa Deployment/linkus-front 0%/50% 2 4 2 3m26s								
NAME						MINPODS	MAXPODS	REPLICAS	
	nkus−fro	nt-hpa Dep	loyment/linku	s-front	0%/50%	2	4	2	3m26s
andrew@Andrewde-MacBook-Pro k8s % ■									





Functionality Introduction

Our Stacks

Frontend: React, Redux

Backend: NodeJS, Express

Database: MongoDB atlas

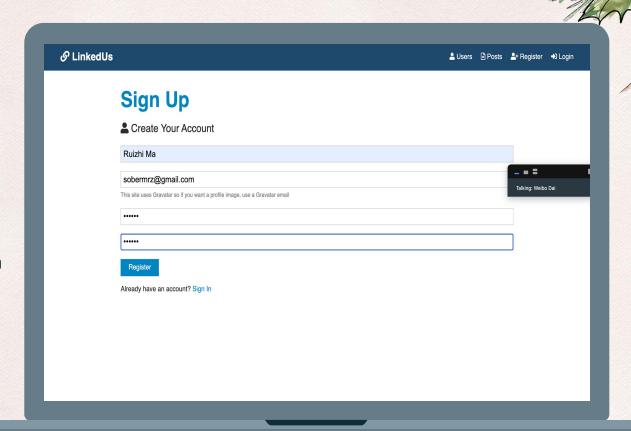
Queue-mediated: Redis





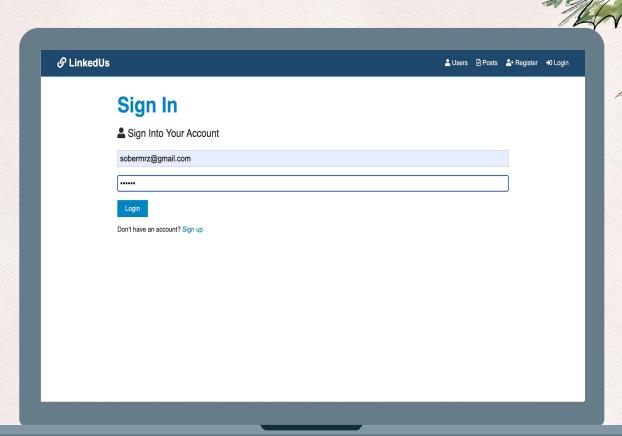
Sign Up

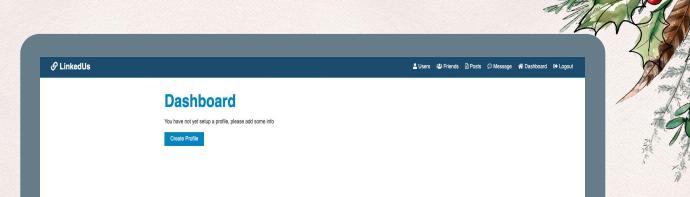
Here new user can sign up for a new account



Sign In

Here new user can sign up for a new account



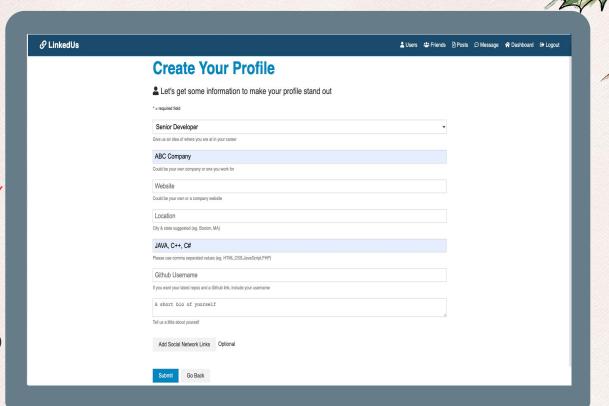


Dashboard

After sign in, a dashboard page will display. If users want to use all functions, they must create their profiles.

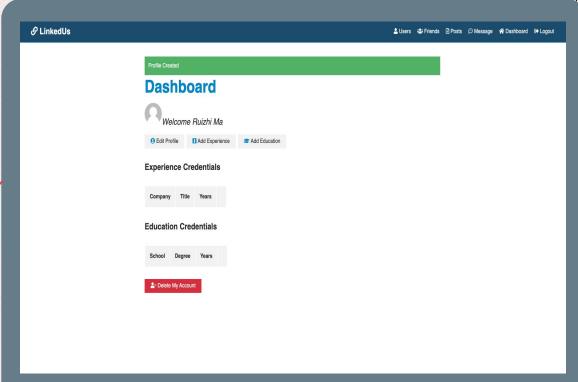
Create Profile

Users can create or update their personal information hereincluding job title*, campany*, Website, Location, vills* and personal introduction)



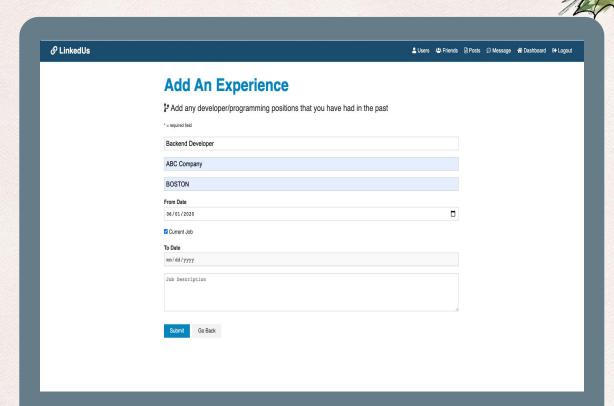
Create Profile

After click submit button, an alert will remind user that their profile has been created

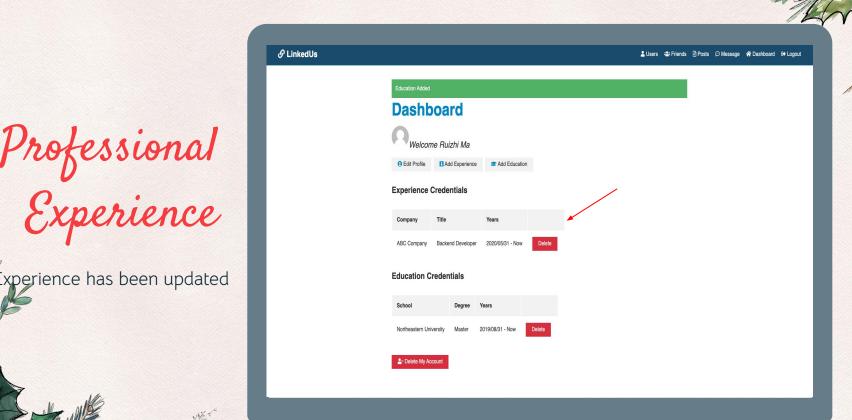


Professional Experience

Users can add their professional information

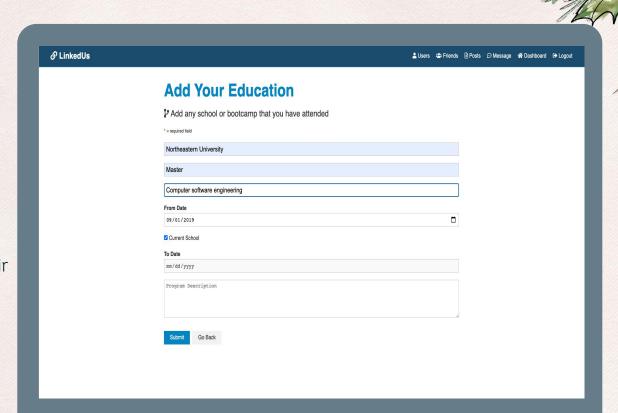


Professional Experience



Educational Experience

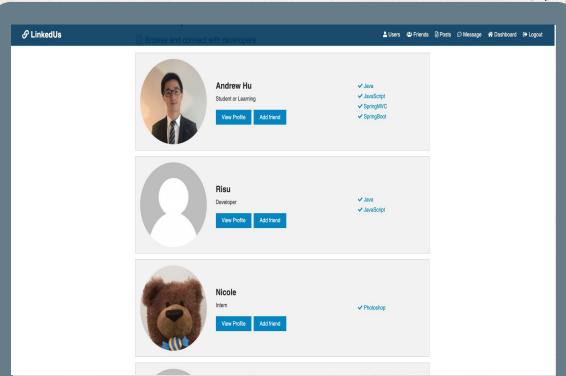
Users can add or update their educational experience





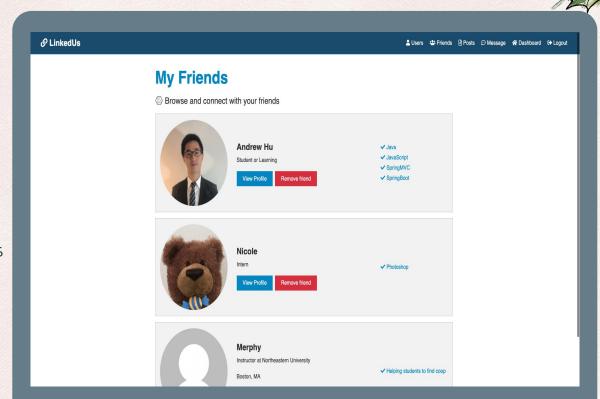
After click Users botton, we can see all users information.

Also, we can add our own



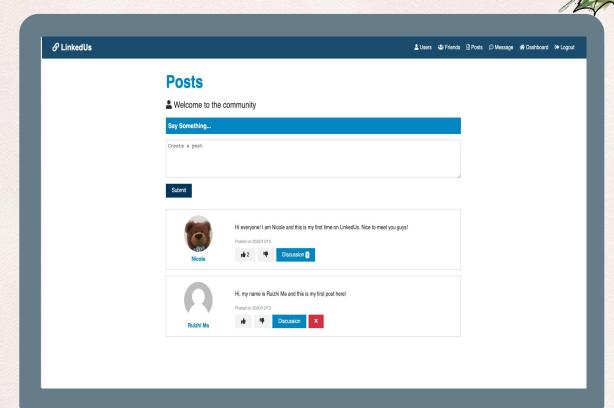
Friends List

We can see all of our friends



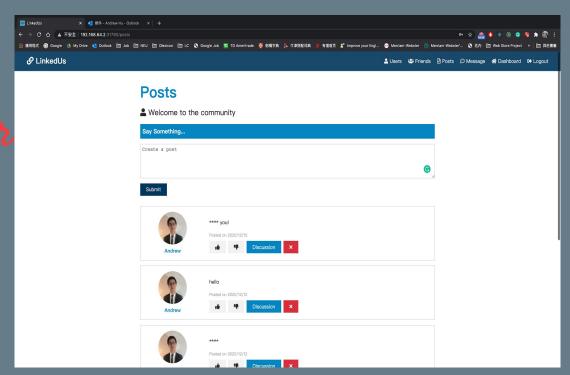
People's Posts

After click posts botton, we can see all posts



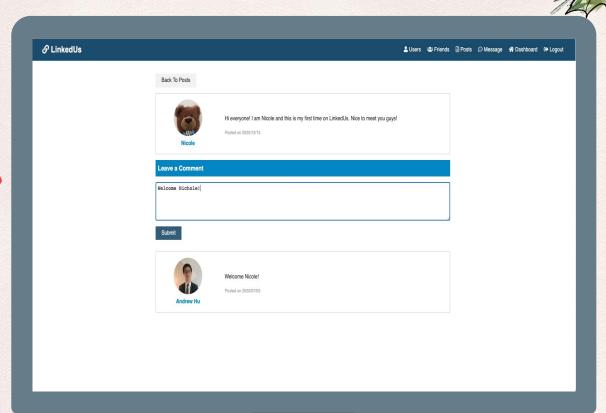
Bad words fitter

We implemented a bad word filter to prevent some bad words. Here a bad boy' always try to post some bad words, and our APP will display * for the bad words



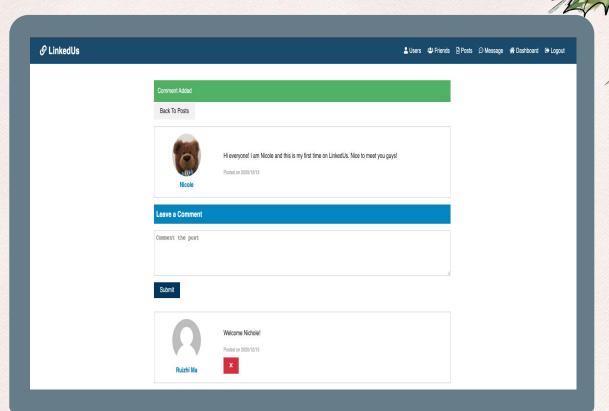
Comment Posts

After click discussion button after posts, we can comment a post.



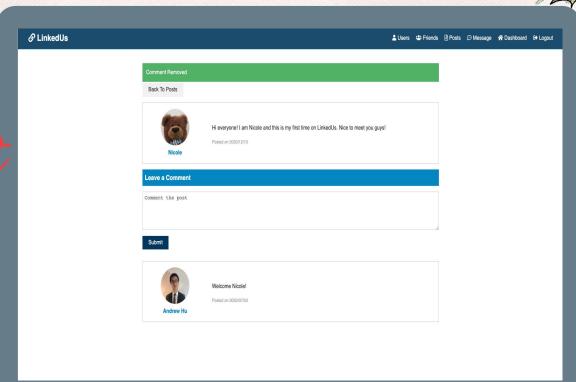
Comment Posts

When we comment successfully, the APP will alert user and the comment content will be displayed.



Delete Comment

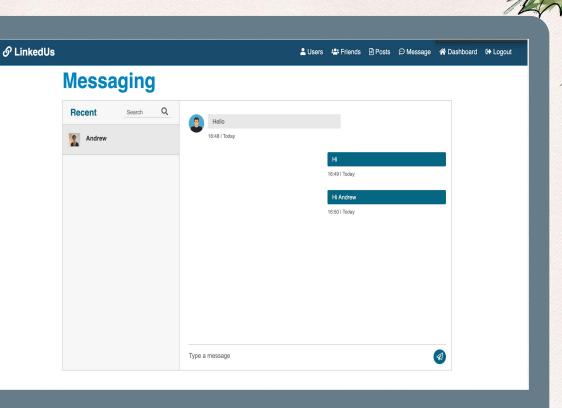
If you want, you can delete any comment or post in the APP

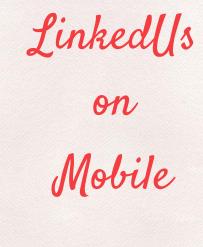


Real-Time Friends

Chatting Room

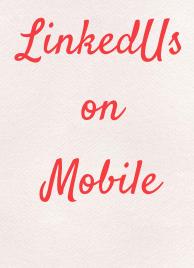
Users can communicate with their friends through chatting box

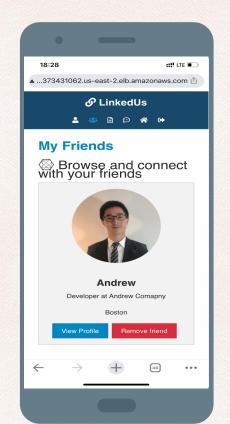






Also, we implemented responsive web design. So you can access the application through your phones!





Also, we implemented responsive web design. So you can access the application through your phones!



App Display



Thank you for listening!

Merry Christmas & Happy New Year