

## Tutorial

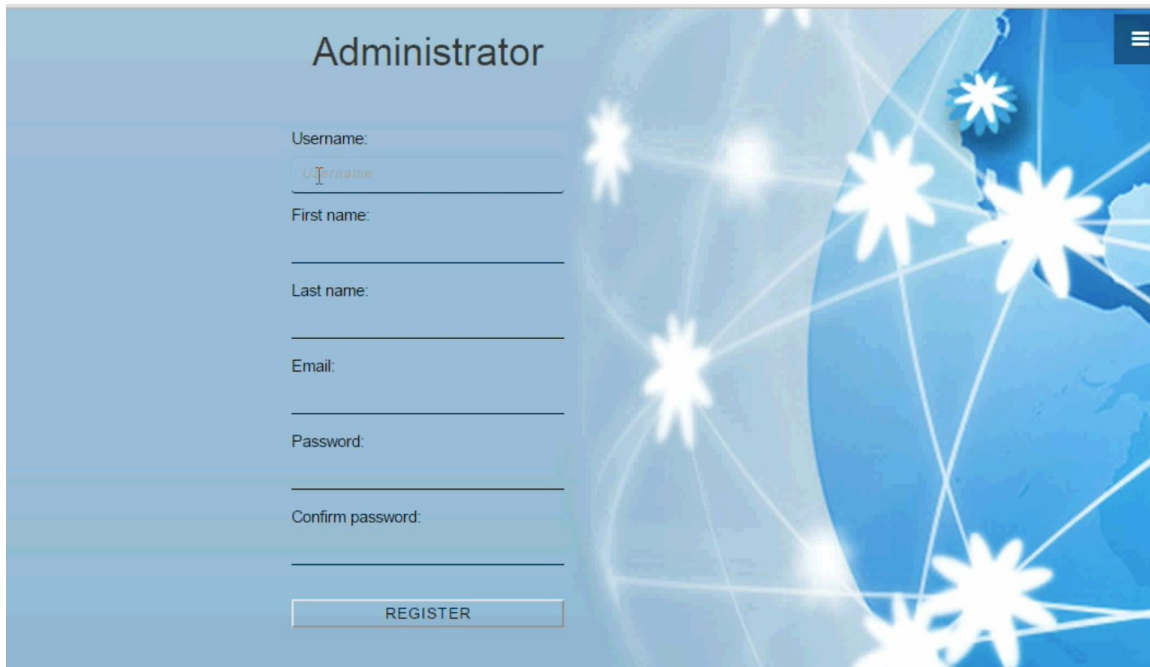
Firstly: go to github and do the following:

git clone [https://github.com/KearneyLiu/Access\\_Review.git](https://github.com/KearneyLiu/Access_Review.git)

```
python manage.py migrate
```

```
python manage.py runserver 0.0.0.0:8000
```

Then register several roles as admin, auditor, manager and normal users.  
Then you would be able to test all the functions.

A screenshot of a web application's registration form titled "Administrator". The form is set against a blue background with a globe and network star icons. It contains input fields for "Username:" (with a placeholder "Username"), "First name:", "Last name:", "Email:", "Password:", and "Confirm password:". A "REGISTER" button is at the bottom. A hamburger menu icon is in the top right corner.

Administrator

Username:

First name:

Last name:

Email:

Password:

Confirm password:

## Auditor

Username:

First name:

Last name:  
  

Liu

Rundong Liu

liu

Chrome 自动填充设置...

Password:

Confirm password:

## Manager

Username:

First name:

Last name:

Email:

Password:

Confirm password:

Then log in as Admin and assign the different app to different users. Also need to upload the csv files for all the services(e.g. AWS)

Access ReviewManagementUploadLogout

App Name

AWS

DNS

Application Name : AWS

Upload the csv file:

选择文件

aws.txt

Upload

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Access ReviewManagementUploadLogout

Please add application first.

App Name

App Name

Create App

Manager

Approved Manager

Manager's First Name

Manager's Last Name

Denied Manager

Manager's First Name

Manager's Last Name

Auditor

Approved Auditor

Auditor's First Name

Auditor's Last Name

Denied Auditor

Auditor's First Name

Auditor's Last Name

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Access ReviewManagementUploadLogout

App Name

AWS

DNS

Create App

Manager

Approved Manager

Manager's First Name

Manager's Last Name

Rundong

Liu

Remove

Denied Manager

Manager's First Name

Manager's Last Name

kaiyu

liu

Assign

Auditor

Approved Auditor

Auditor's First Name

Auditor's Last Name

When logged in as a manager, there would be a dashboard on the left side that can lead manager to all the application that he can do the access review. When the manager clicks on the service name, there would be the whole access review list in the web interface, the manager can review this list and change the permissions if he thinks he needs to do so. For example: he can change the permission from “read and write” into “read only” for Bob, and all the changes would be saved in the database.

[Access Review](#) [Review](#) [Logout](#)

App Name

AWS

Application	User's First Name	User's Last Name	Reviewed By	Permission	
AWS	Venkat	Tummalapalli	None	Read	Edit
AWS	Victoria	Alvarez	None	Read and Write	Edit
AWS	Cym	Sanguinet	None	Read and Write	Edit
AWS	Michael	Baldwin	None	Read and Write	Edit
AWS	Linh	Dieu	None	Read	Edit
AWS	Daniel	Mark	None	Read and Write	Edit
AWS	Martin	Lienhard	None	Read	Edit
AWS	Samata	Yarlagadda	None	Read and Write	Edit
AWS	Sivapriya	Ramachandran	None	Read	Edit
AWS	Amit	Suryavanshi	None	Read	Edit
AWS	Anshuman	Nene	None	Read and Write	Edit

[Access Review](#) [Review](#) [Logout](#)

### Permission Update

Application	User's First Name	User's Last Name	Reviewed By	Permission
AWS	Venkat	Tummalapalli	None	Read and Write

Update

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The auditor can only review the userlist he is related to. For example, if Bob can only access the AWS service, then he can only see the user list of the AWS and cannot see the others.

Access Review    Audit    Logout					
App Name	Application	User's First Name	User's Last Name	Reviewed By	Permission
<div> <div>AWS</div> <div>DNS</div> </div>	DNS	Matthew	Lawrence	kaiyu liu	Read and Write
	DNS	Richard	Anderson	None	Read and Write
	DNS	Chris	Turner	None	Read and Write
	DNS	Stephen	Cussen	None	Read and Write
	DNS	Elizabeth	Simpson	None	Read
	DNS	Jessie	Womble	None	Read and Write
	DNS	Kim	Dickson	None	Read
	DNS	Joseph	Freitag	None	Read and Write
	DNS	Michelle	Martinez	None	Read
	DNS	Brandon	Henderson	None	Read
	DNS	John	Zimmerman	None	Read and Write
	DNS	Harish	Reddy	None	Read
	DNS	Penelope	Foster	None	Read and Write
	DNS	William	McMullen	None	Read

After verification of the system, we have done the experiments to download the access review list as a PDF format file. This is easy for people to download and print.

Access Review Report for AWS				
User ID	First Name	Last Name	Permission	Reviewed By
1	Venkat	Tummalapalli	Read-write	Rundong Liu
2	Victoria	Alvarez	Read	Rundong Liu
3	Cym	Sanguinet	Read-write	None
4	Michael	Baldwin	Read-write	None
5	Linh	Dieu	Read	None
6	Daniel	Mark	Read-write	None
7	Martin	Lienhard	Read	None
8	Samata	Yariagadda	Read-write	None
9	Sivapriya	Ramachandran	Read	None
10	Amit	Suryavanshi	Read	None
11	Anshuman	Nene	Read-write	None
12	Brannon	Adlesh	Read	None
13	Camille	Falor	Read-write	None
14	Jonathan	Weiss	Read	None
15	Sabaji	Naik	Read-write	None
16	Vikas	Parwar	Read-write	None
17	Roneel	Prasad	Read-write	None
18	David	Chambers	Read	None
19	Jaldhi	Valia	Read-write	None
20	Virginia	Synnot	Read-write	None
21	Gilles	Declercq	Read	None

The system has good concurrency control mechanism, works well in the multithreaded environment. If two user try to modify the data at the same time, the data would not crash, and the transactions has good atomicity.