**PRESS PORTAL**

* DIPRO Department of a District plays primary role to upload the news which are relates to Block level, Town / City level, District level, State level, National level and International level of a concerned District of a State and automatically all the news will be forwarded to concerned District DC.
* After that,
  + If news is related to concerned District than, concerned DC or Department takes necessary action on that news and gives the comments / remarks / action on that news.
  + If news is related to other District than, only that news which are forwarded to other District DC only that news will be seen in dashboard with their comments / remarks / action given by Department.
* A Dashboard will be made to see all the news will be seen their remarks or category wise filter like DC of a same District of a State, DC of other District of a State, Departments of a same District of a State, Department of other District of a State.

**Work Flow: -**



**­­**

**Dashboard: -**

A B(A) C(E+F+G) D OTHERS

Others

10

DC forward the news to other District DC 2

DC forward the news to concerned department 8

News forwarded to DC

20

Total News

20

E(E-G) F G (E-APPROVED BY DC)

Pending action taken by concerned department of a District 6

News Filed

1

Action taken by concerned department of a District 1

**Software & Hardware Requirement: -**

* **Software: -** Any Updated Web Browser
* **Hardware: -** Good speed of internet connectivity, Printer and Scanner

**Technology used: -**

* **Front End: -** JSP using Bootstrap 4
* **Back End: -** Servlet
* **Database: -** MySQL 8.0
* **JDK:** - 17
* **Tomcat Server:** - 9.0.88
* **Dynamic Web Module:** - 3.1
* **Jar Files:** - mysql-connector-j-8.0.32.jar, servlet-api.jar, cos.jar, org.apache.commons.io.jar

**Note:- Before installing Tomcat Server , Jenkins and MySQL check the port numbers of any applications which are already running on the system by using “netstat –ano” command.**

**Database Management**

**Query to create database:**

create database press;

**Query to use database:**

use press;

**Query to create table:**

create table dipro

(

id int(255) not null primary key,

newsdate Date not null,

filename varchar(255) not null,

filedata longblob not null,

remarks varchar(255) not null,

newspaper varchar(255) not null

);

ALTER TABLE dipro auto\_increment=1;

**Query to describe the table structure:**

desc dipro;

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | Type | Null | Key | Default | Extra |
| id | int(255) | NO | PRI | NULL |  |
| newsdate | date | NO |  | NULL |  |
| filename | varchar(255) | NO |  | NULL |  |
| filedata | blob | NO |  | NULL |  |
| comment | varchar(255) | NO |  | NULL |  |
| newspaper | varchar(255) | NO |  | NULL |  |

**Query to create table:**

create table login

(

username varchar(255) not null,

password varchar(255) not null,

role varchar(255) not null,

district varchar(255) not null

);

**Query to describe the table structure:**

desc login;

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | Type | Null | Key | Default | Extra |
| username | varchar(255) | NO |  | NULL |  |
| password | varchar(255) | NO |  | NULL |  |
| role | varchar(255) | NO |  | NULL |  |
| district | varchar(255) | NO |  | NULL |  |

**Query to insert username, password, role:**

insert into login values('admin','admin','admin','palwal');

insert into login values('dc','dc','dc','palwal');

insert into login values('adc','adc','adc','palwal');

insert into login values('ctm','ctm','ctm','palwal');

insert into login values('sp','sp','sp','palwal');

insert into login values('dio','dio','dio','palwal');

insert into login values('sdm','sdm','sdm','palwal');

insert into login values('dipro', 'dipro','dipro','palwal');

**Query to create table dc as clone table:**

create table dc like dipro;

**Insert the values from one table to another:**

insert into dc select \* from dipro;

**Add status column in dc table:**

alter table dc add column status varchar(255) not null;

**Update the status column values:**

update dc set status="open";

**Department wise:-**

create table animalhusbandry

(

id int(255) not null primary key,

newsdate Date not null,

filename varchar(255) not null,

newspapername varchar(255) not null,

remarks varchar(255) not null

);

create table dfsc

(

id int(255) not null primary key,

newsdate Date not null,

filename varchar(255) not null,

newspapername varchar(255) not null,

remarks varchar(255) not null

);

**Tomcat Server**

**Changes in Tomcat Server Configuration:**

1. Add the manager-script role under user name (C:\Program Files\Apache Software Foundation\Tomcat 9.0\conf).

<user username="root" password="root" roles="manager-gui,admin-gui,manager-script" />

1. Comment in the context file (C:\Program Files\Apache Software Foundation\Tomcat 9.0\webapps\manager\META-INF).

<!--<Valve className="org.apache.catalina.valves.RemoteAddrValve"

allow="127\.\d+\.\d+\.\d+|::1|0:0:0:0:0:0:0:1" />-->

**Run application inside STS:**

**Local Port:** 7085

**Tomcat Port:** 8085

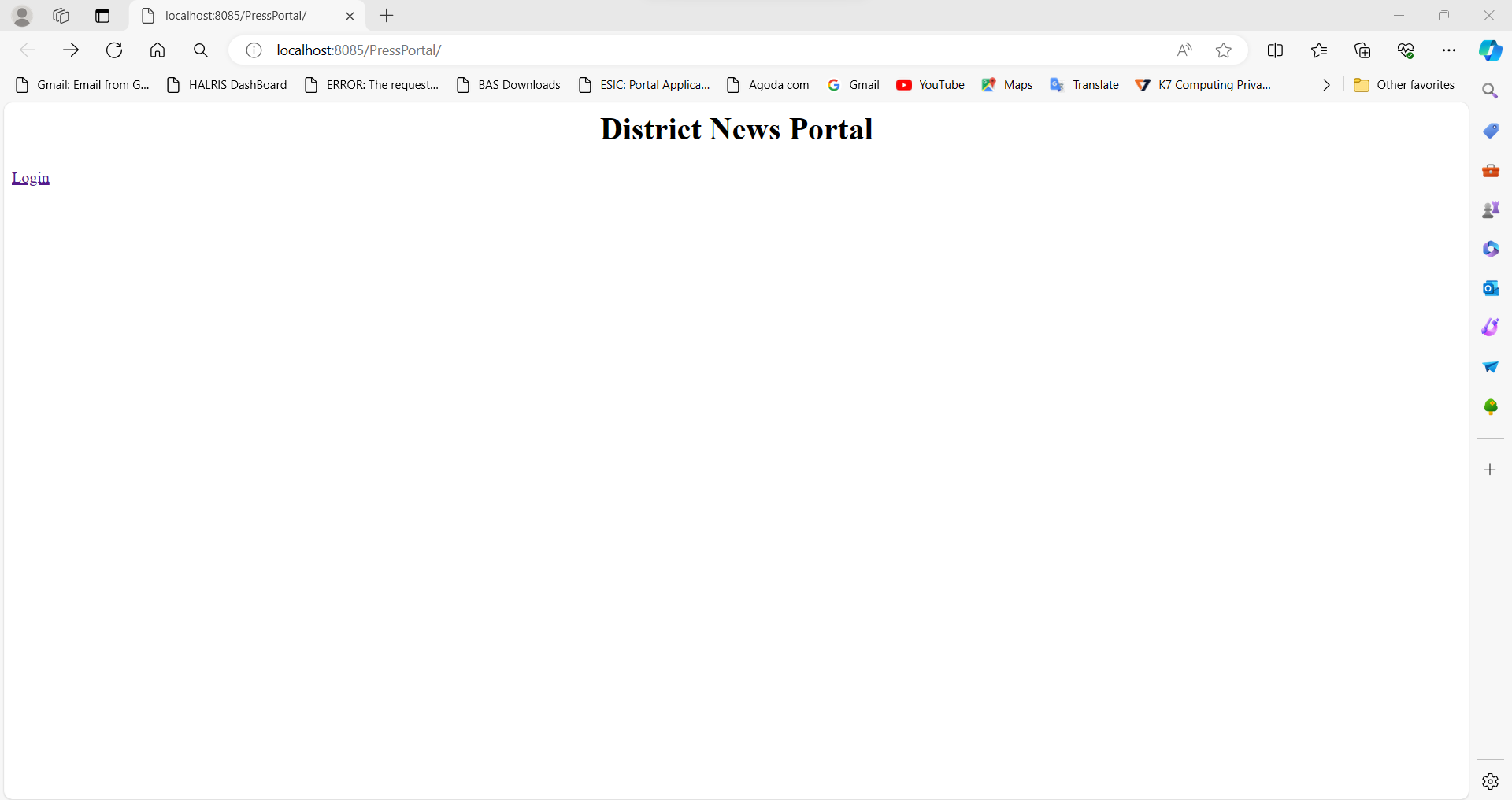
**Username:** root

**Password:** root

**Deploy web application manually:**

1. Install Tomcat Server in System and give the port no 8085 with username: root and password: root.
2. Make a war file of project and paste into C:\Program Files\Apache Software Foundation\Tomcat 9.0\webapps path.
3. Now run the application by giving the manual URL on browser.

**Port:** localhost:8085/PressPortal



**GitHub**

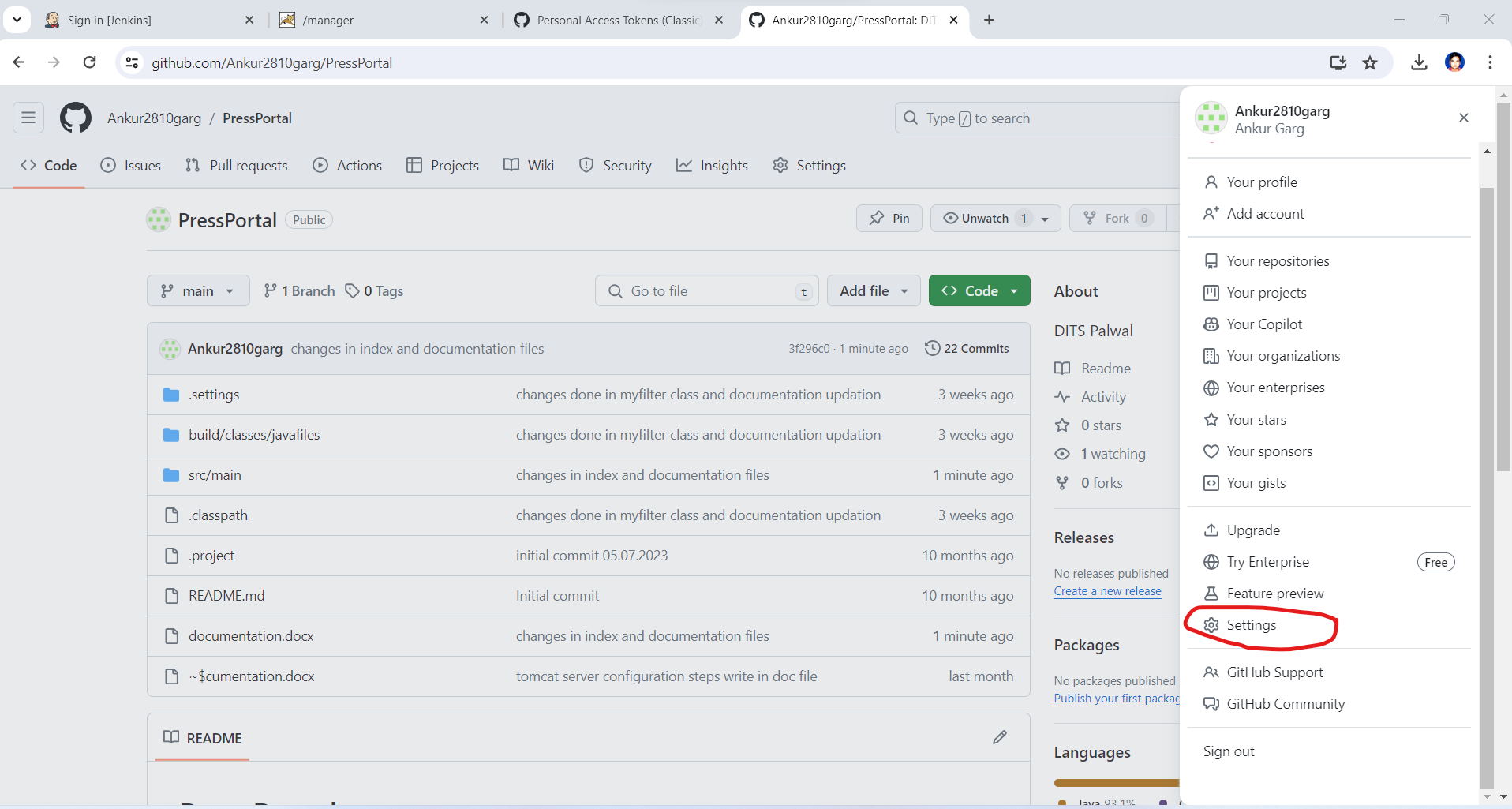
**Token:** ghp\_f4EVINuVyYUdaj8R76V7PmzRpoilXu3ZPWhN

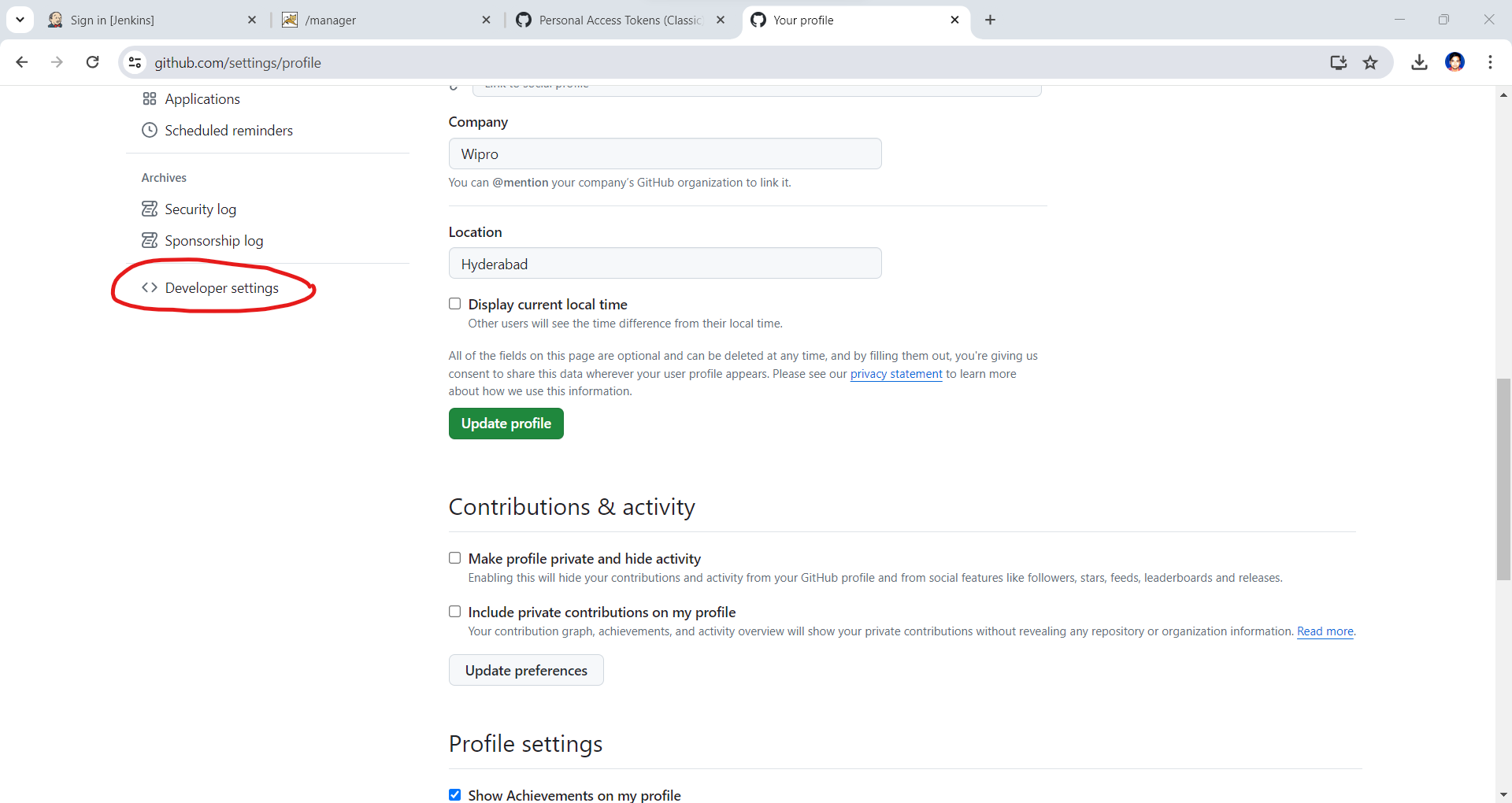
**GIT Version:** git version 2.43.0.windows.1

**Username:** Ankur2810garg

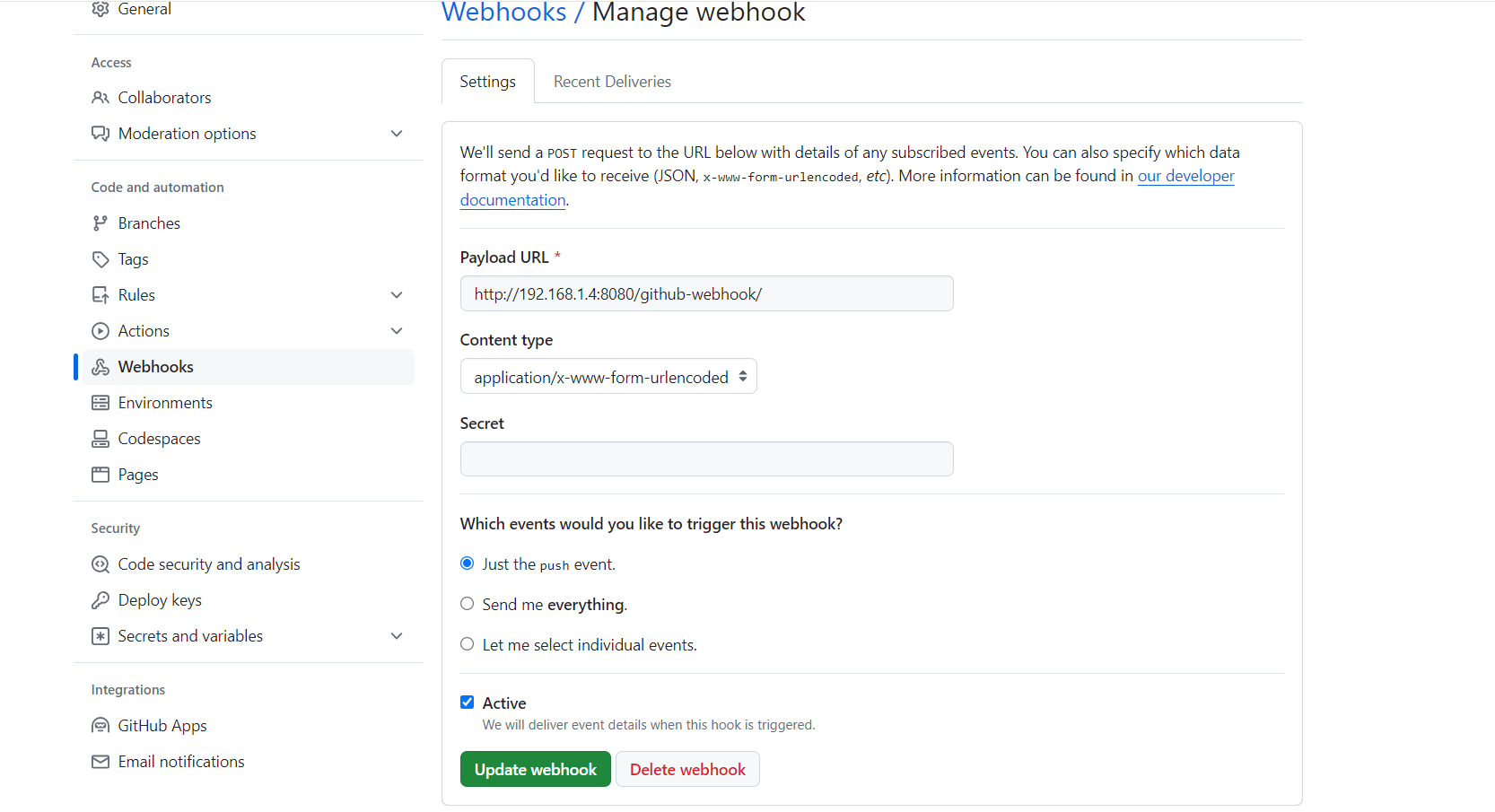
**Password:** Radha@2810

**URL:** <https://github.com/Ankur2810garg/PressPortal.git>

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**Adding WebHook:**

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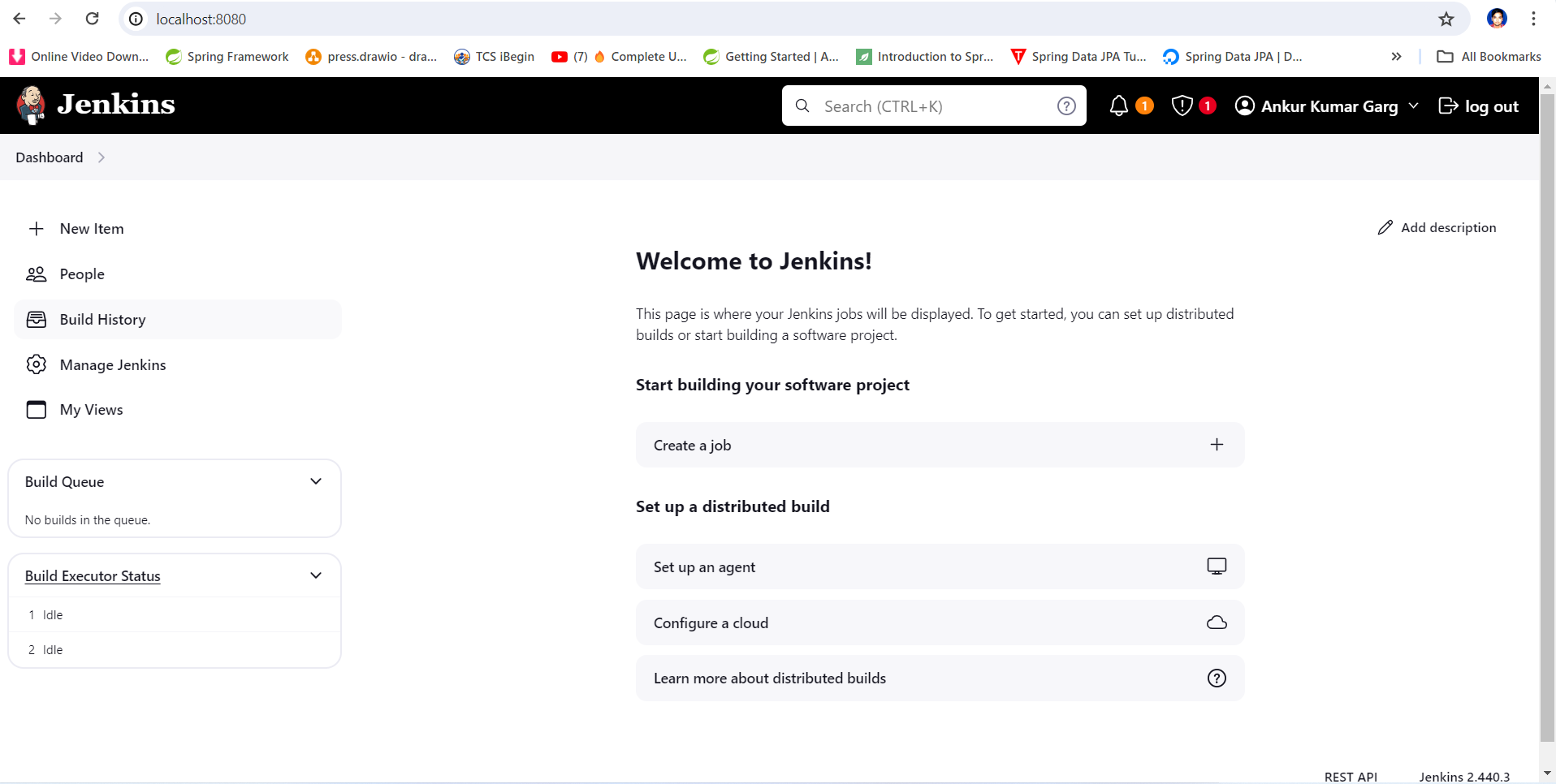
**Jenkins**

**URL:** localhost:8080/

**User Name:** Ankur

**Password:** Radha@2810

When u logged in, the following screen will be appeared:



**Manage Plugin:**

**Plugin:**

Install the following plugins:

1. Deploy to Container
2. Maven
3. Authentication Tokens API
4. SSH Agent

**Tools:**

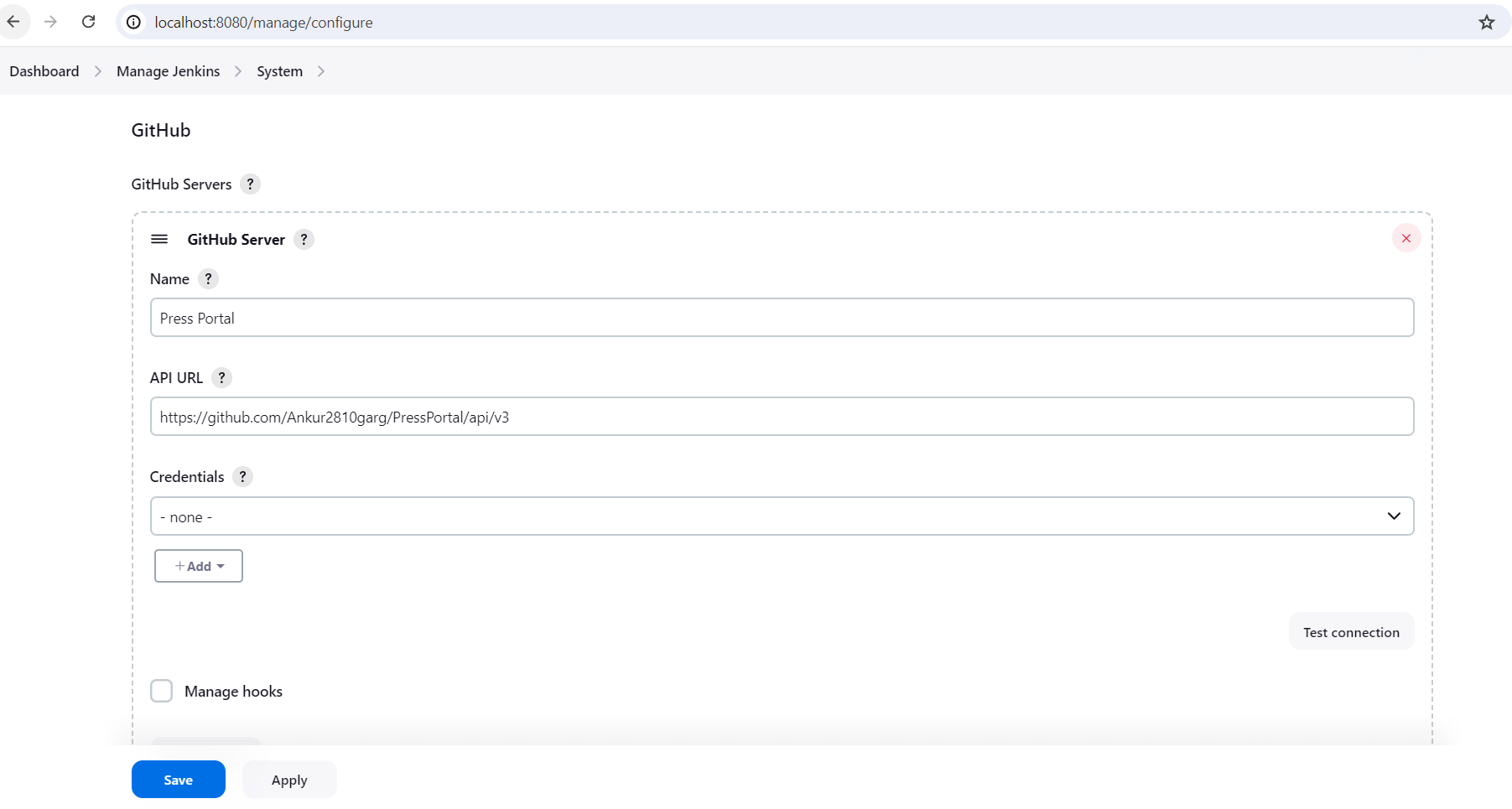
Set the path of following applications:

1. JDK11
2. Maven

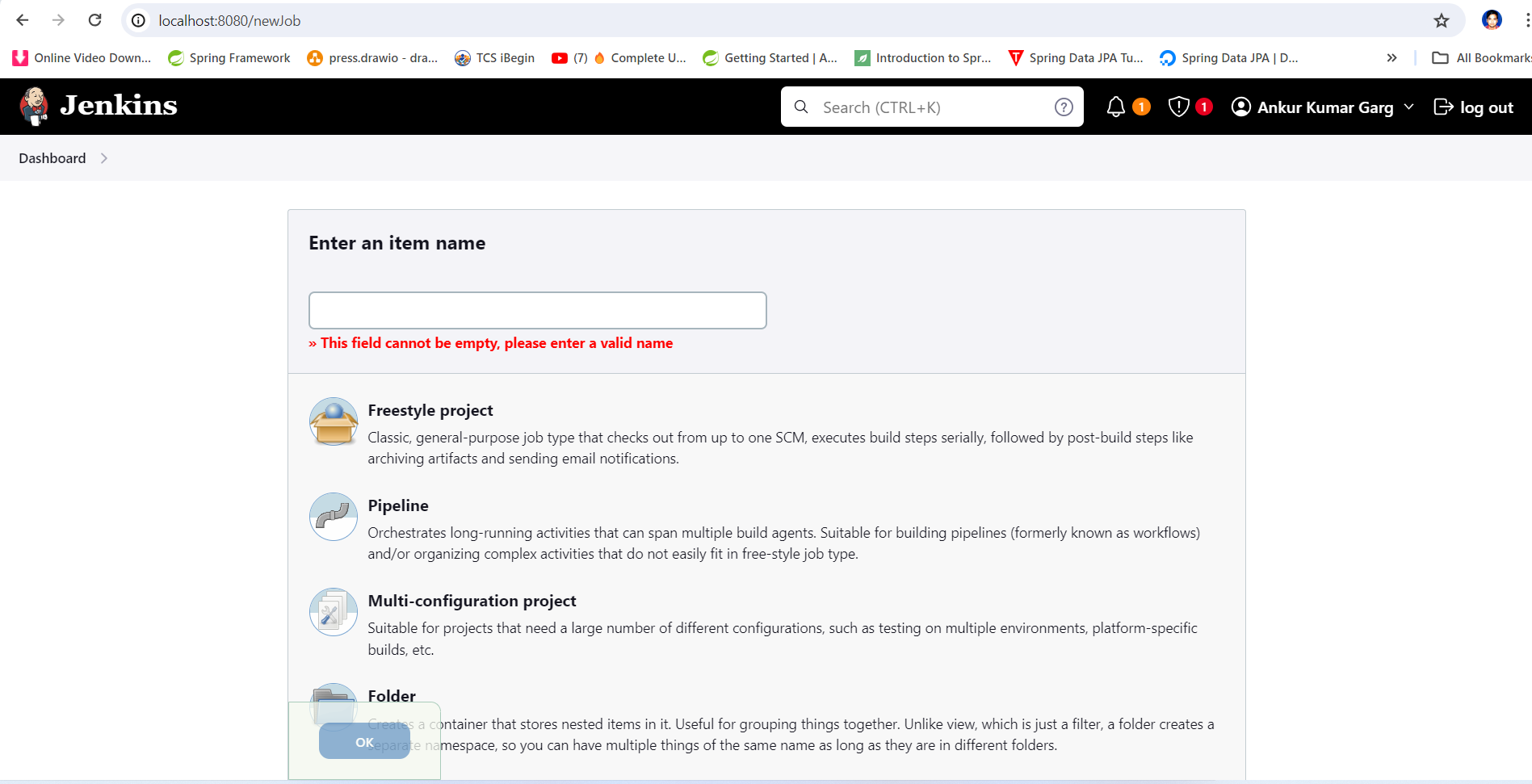
**System:**

1. Change the localhost to local or remote or server system IP address:



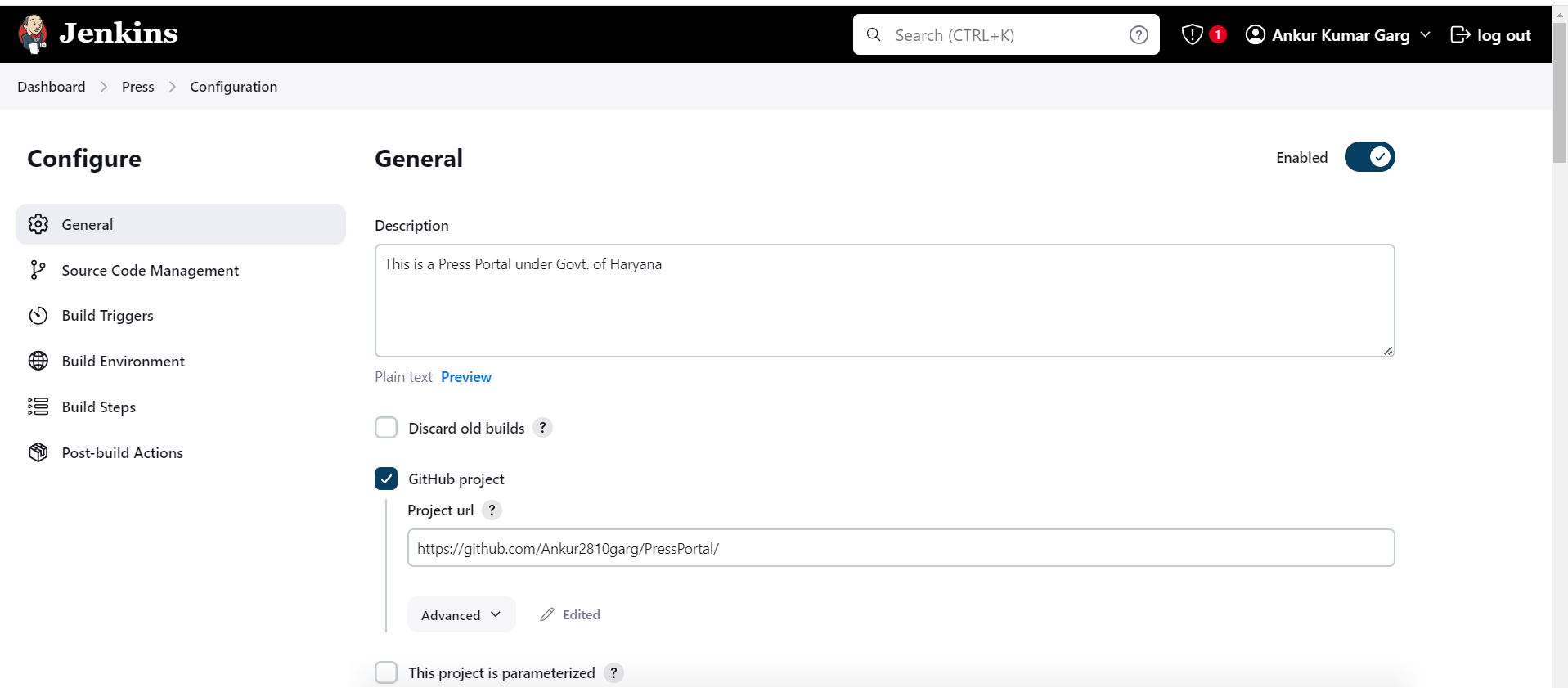
1. Update Github Server:
2. And save it.

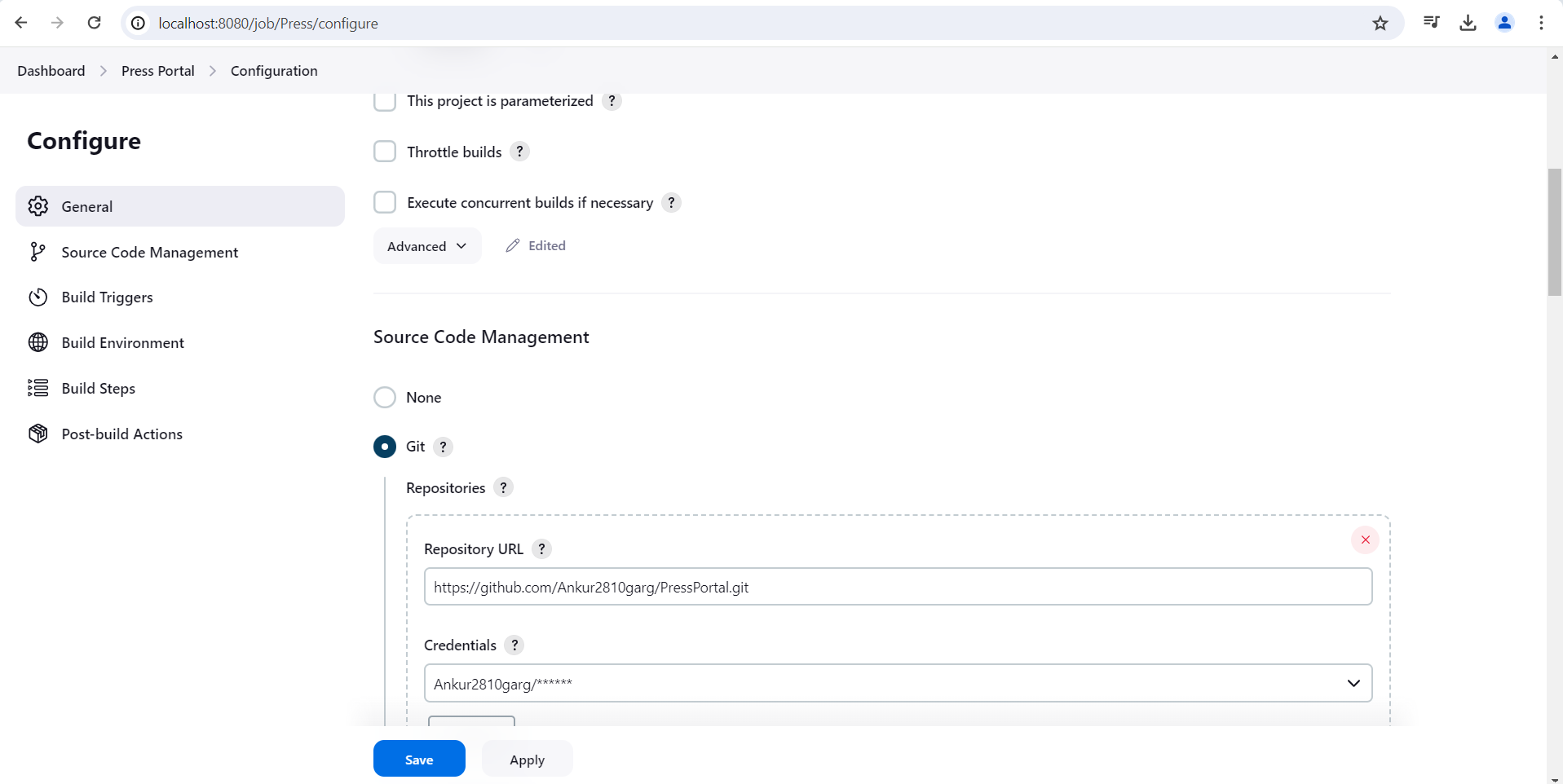
Now, click on create a job. After click, the following screen be appearing.

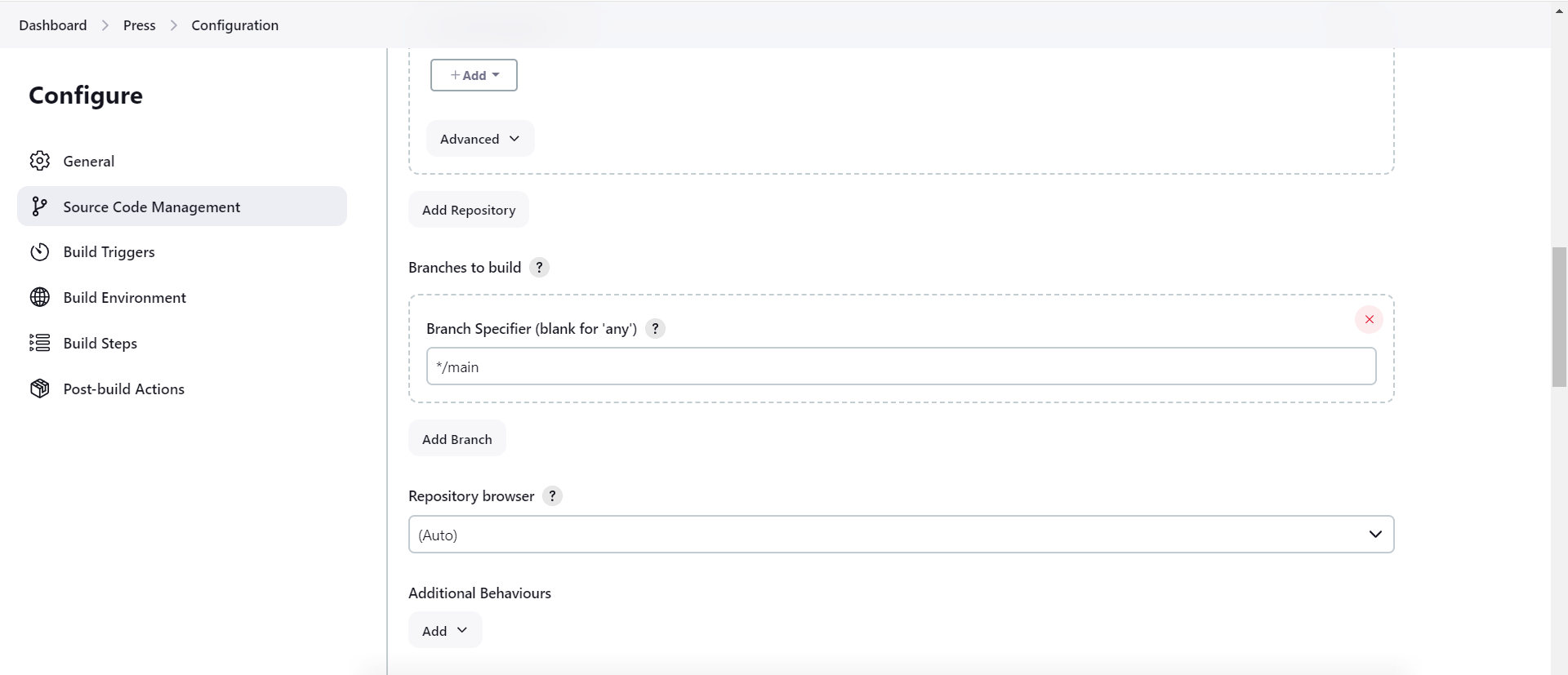


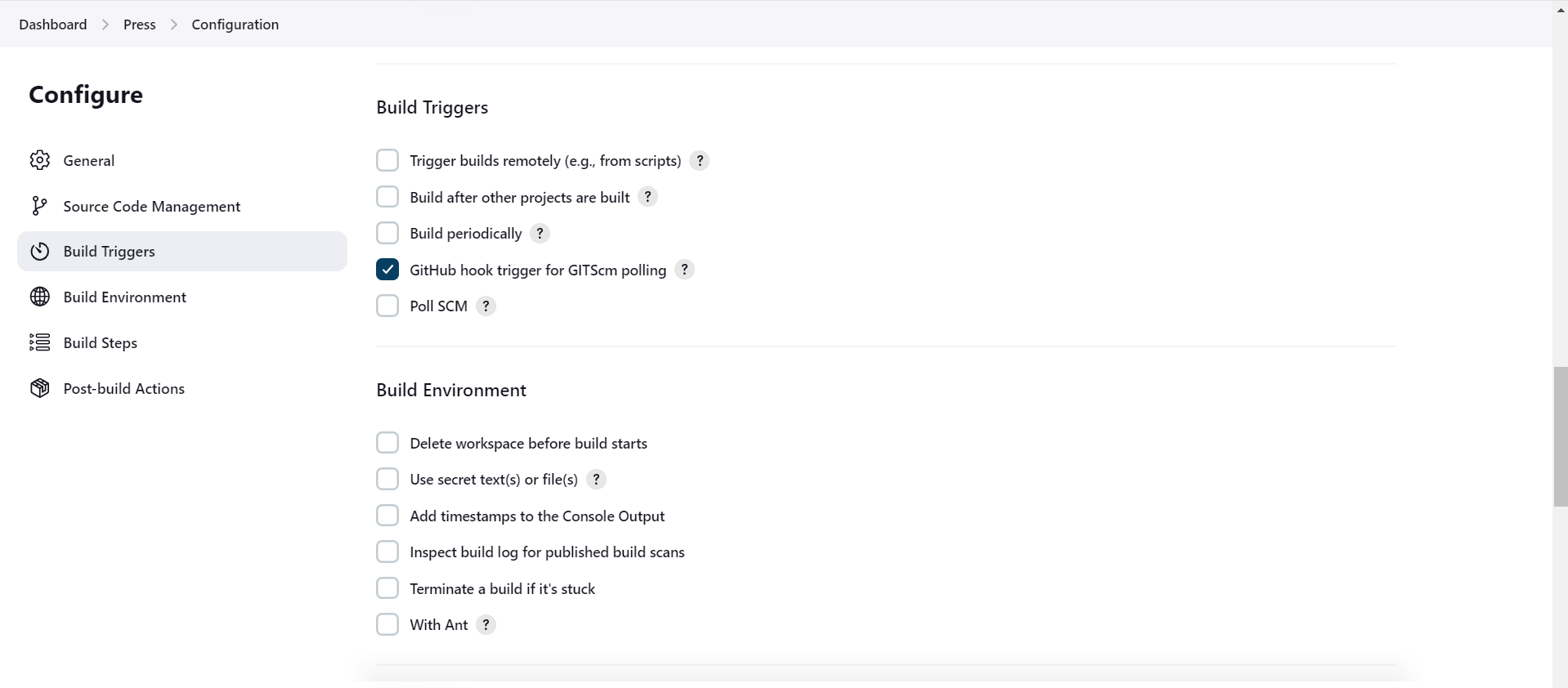
Give Item Name: Press and choose Project Type: Freestyle and click ok.

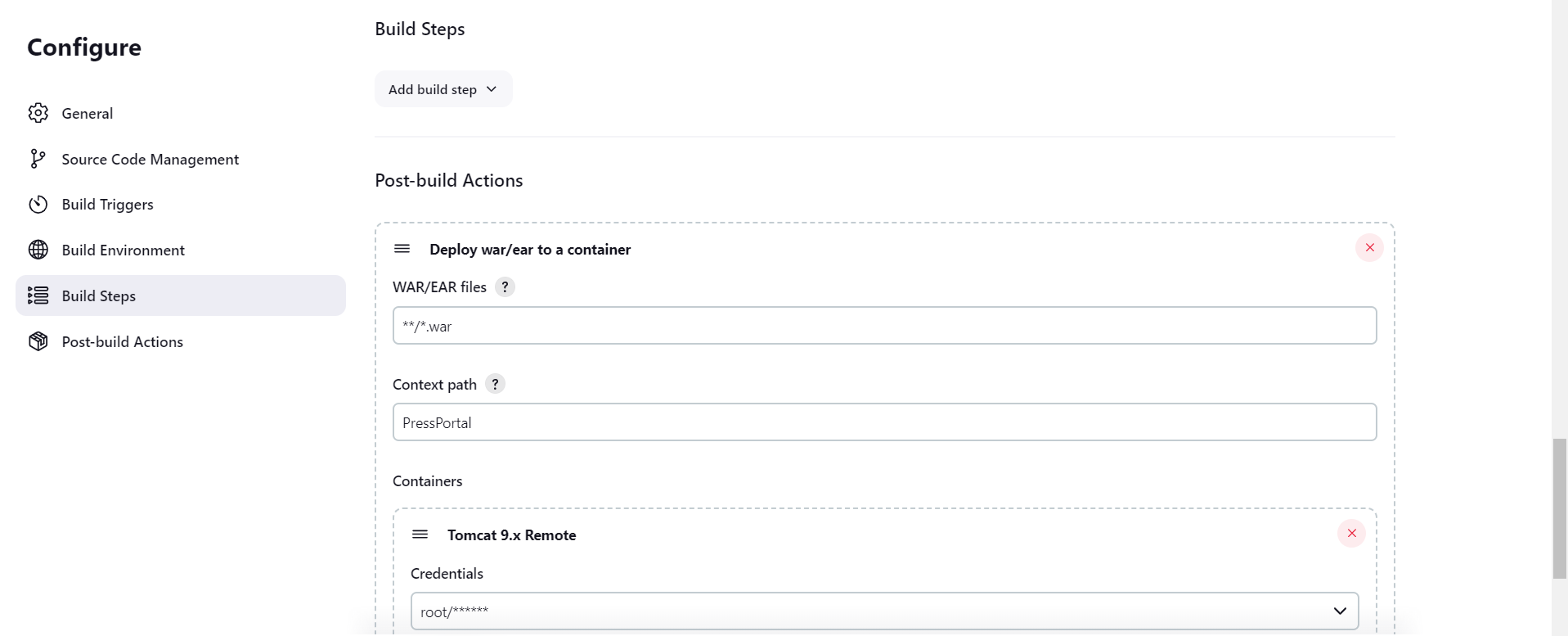
After that this page will be open.

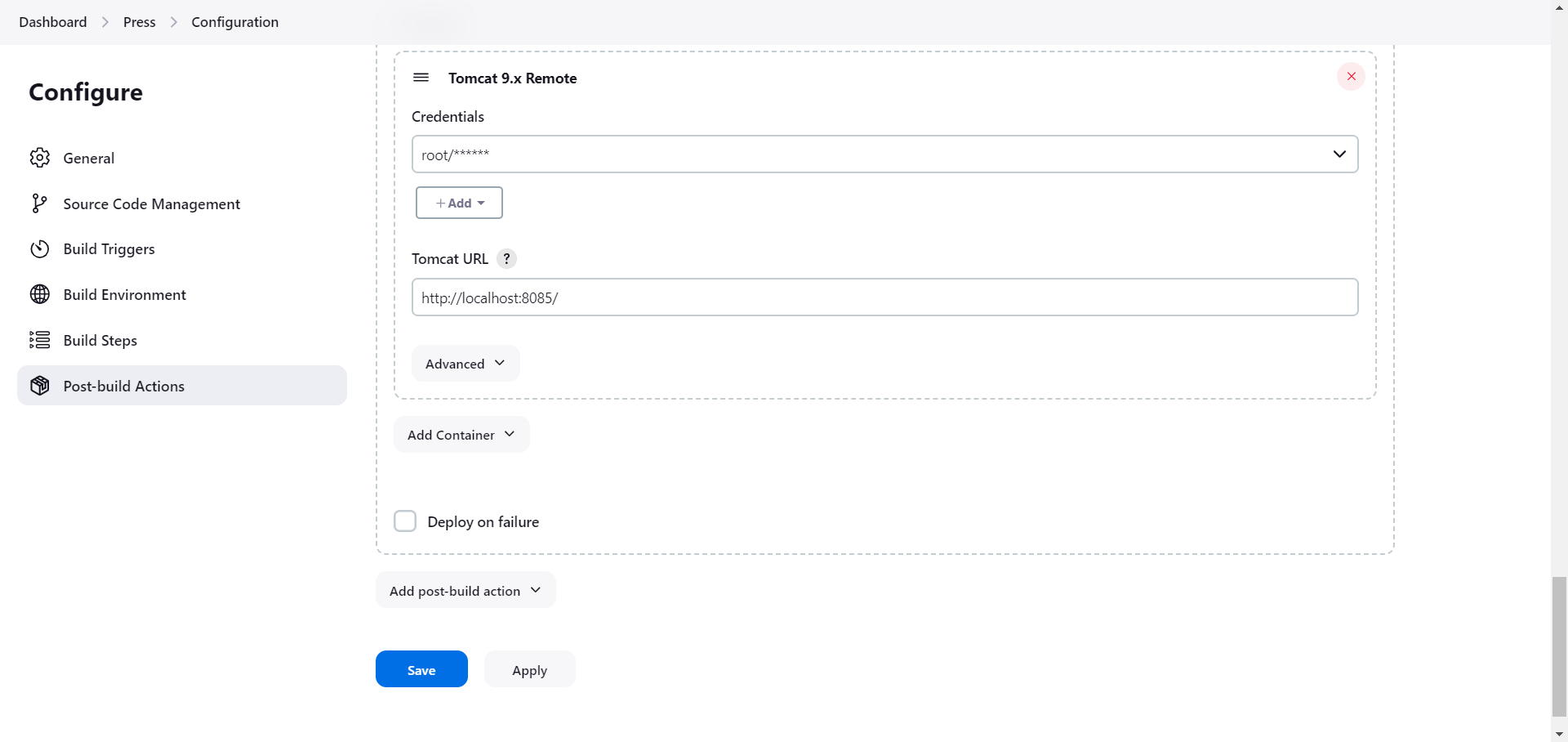




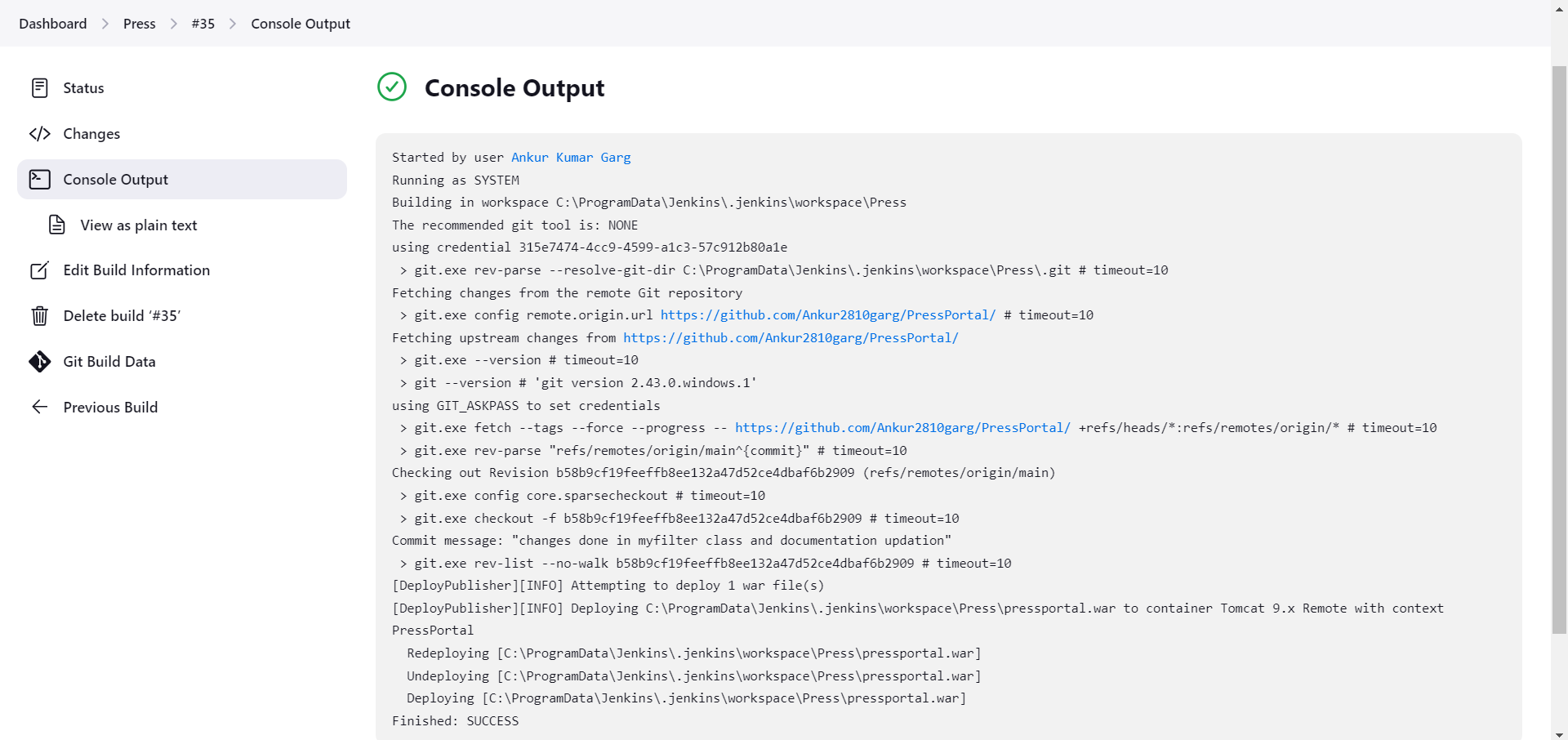


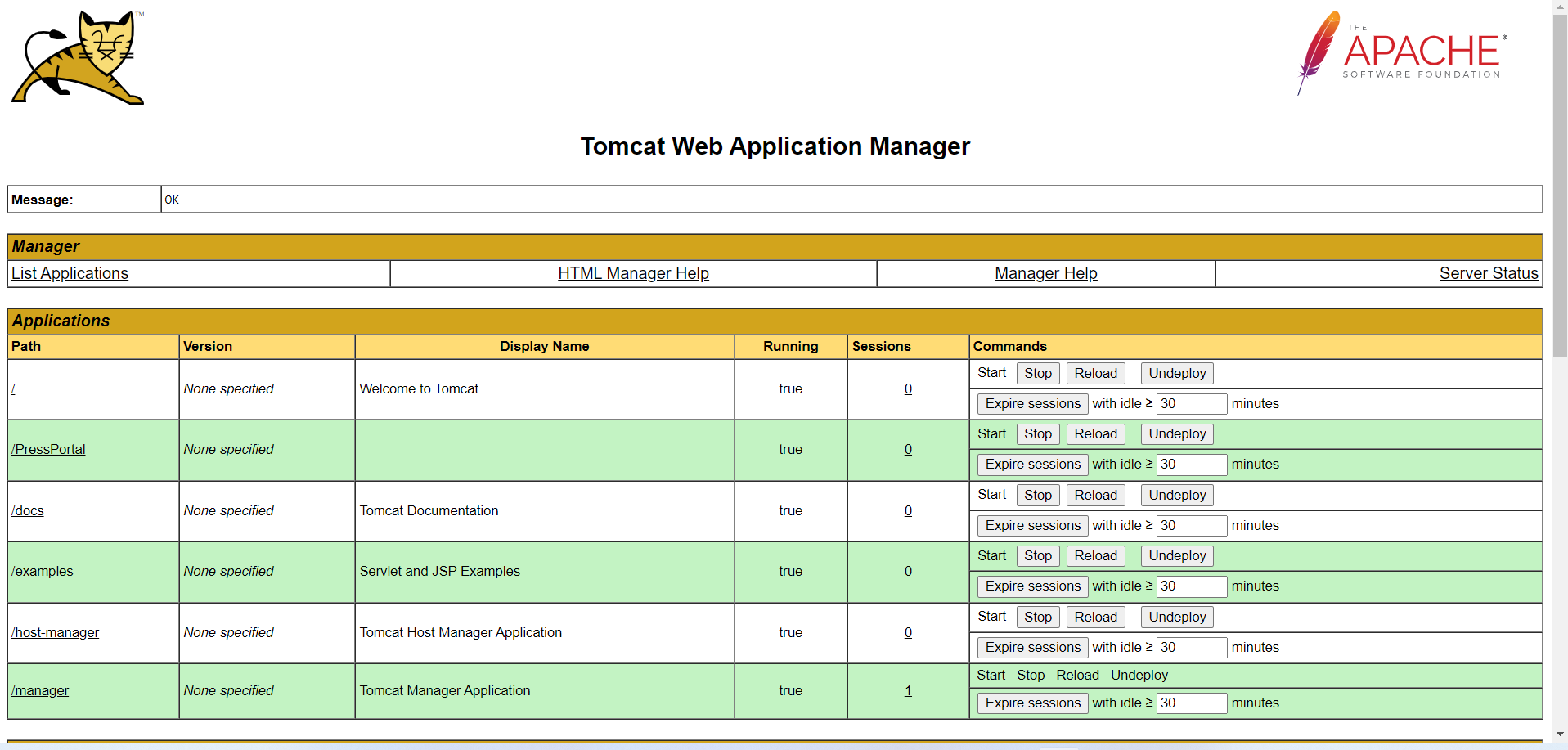






After that click on Build now. If success, then go to tomcat server and login into it and see the below screen otherwise go to the console output and resolve the errors.





**Next Vision:-**

1. Access the application by Department and Work on the news report, if any related.
2. Use React / Angular instead of HTML / CSS / BootStrap etc..
3. Auto Deploy on Tomcat Server using Jenkins and GitHub WebHook
4. Parallelly deploy on AWS Cloud
5. And Deploy on Docker and Kubernetes etc…

**AWS Cloud:-**

**Setup of AWS EC2:-**

Account Create: 31.05.2024

**Region and Availability Zone:-**

Europe Stockholm eu-north-1

**Instance ID:-**

i-01861c236c7ff10b5 (PressPortal)

Open the SSH Client.

Locate your private key file. The key used to launch this instance is PressPortal.pem.

Run this command, if necessary, to ensure your key is not publicly viewable.

chmod 400 "PressPortal.pem"

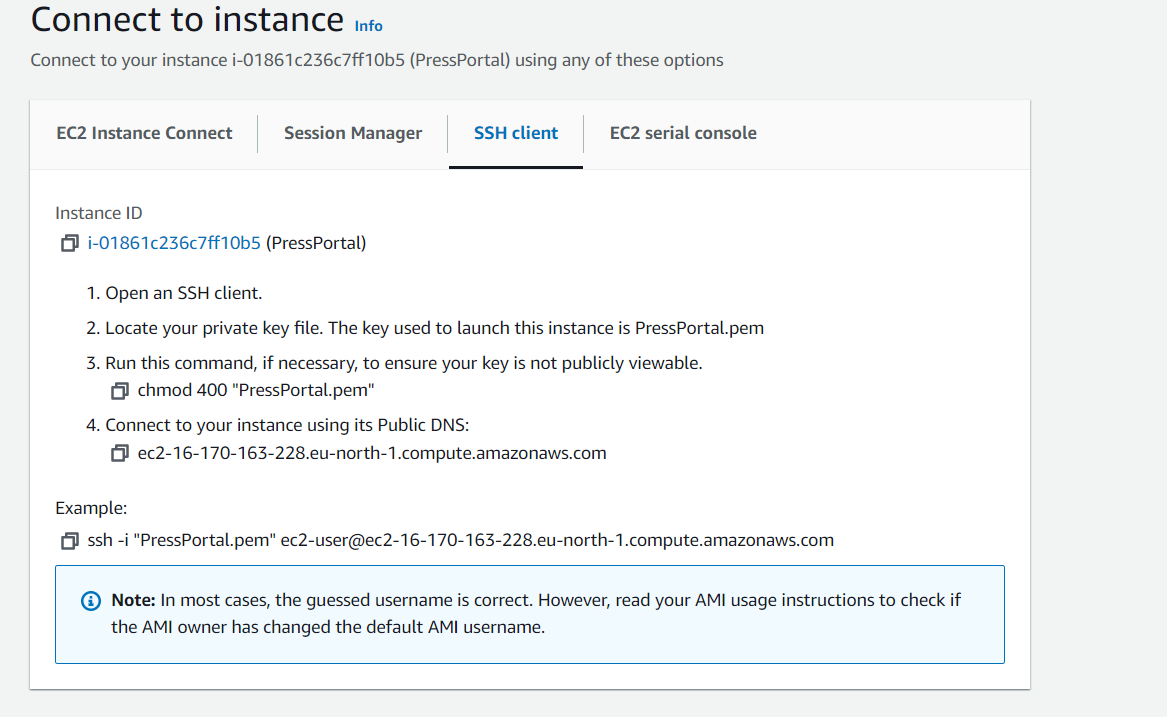
Connect to your instance using its Public DNS:

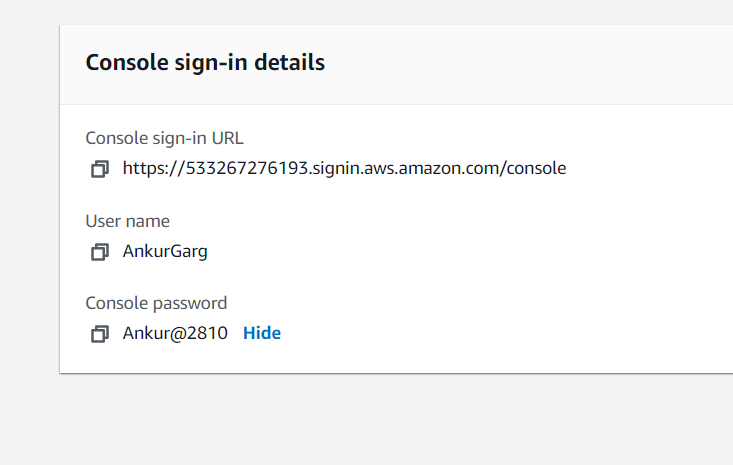
ec2-16-170-163-228.eu-north-1.compute.amazonaws.com

**Public IP address**

16.170.163.228

172.31.16.202





**Java:-**

Sudo yum install java-1.8.0

Java –version

**Tomcat Server:-**

Sudo yum install tomcat9-webapps tomcat9-docs-webapp tomcat9-admin-webapp

**Jenkins:-**

sudo wget -O /etc/yum.repos.d/jenkins.repo \ <https://pkg.jenkins.io/redhat-stable/jenkins.repo>

sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key

sudo yum install jenkins -y

sudo systemctl enable jenkins

sudo systemctl start jenkins

sudo systemctl status jenkins

**Root user email:-**

[Gargankur2810@gmail.com](mailto:Gargankur2810@gmail.com)

Ankur@2810

**IAM (Identity and Access Management):-**

Account ID:- 5332-6727-6193

Console:-https://pressportal.signin.aws.amazon.com/console

Username:- AnkurGarg

Password:- Radha@2810

Docker-compose.yml

version: '3'

services:

PressPortal:

image: pressportal

ports:

- "7085:80"

PressPortal\_1:

image: pressportal

ports:

- "8085:80"