**CI/CD Deployment for Springboot Application.**

DESCRIPTION

**Project Objective:**

As a Full Stack Developer, you have to build a CI/CD pipeline to demonstrate continuous deployment and host the application on AWS EC2 instance.

**Background of the problem statement:**

As the project is in the final stage, management has asked you to automate the integration and deployment of the web application. You are required to set up an environment where the application will be hosted and accessed by users. The source code is supposed to be fetched from a GitHub repository.

**Source code:**

**Application.java**

package com.example.demo;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class Application {

public static void main(String[] args) {

SpringApplication.run(Application.class, args);

}

}

**MainController.java**

package com.controller;

import org.springframework.web.bind.annotation.RequestMapping;

import org.springframework.stereotype.Controller;

@Controller

public class MainController {

@RequestMapping("/")

public String index() {

return "index.html";

}

}

**Default.css**

**body** {

background-image: *linear-gradient(180deg,* *#0088bb,* *#000000)*;

margin:*0*; padding:*0*;

overflow-x:*hidden*;

height:*100%*;

font-family: *'Lato',* *Helvetica,* *arial,* *sans-serif*;

font-weight: *300*;

font-size: *20px*;

line-height: *1.45*;

color: *#eee*;

color: *rgba(255,255,255,.85)*;

}

*#container* {

padding-top: *50px*;

}

*#content* {

max-width: *43em*;

padding:*10px*;

margin: *0* *auto*;

}

**h1** {

font-size: *4.8em*;

font-weight: *100*;

text-transform: *uppercase*;

margin: *0*;

}

**h3** {

font-size: *2.4em*;

font-weight: *300*;

line-height: *1.5*;

}

**p,** **li** {

font-size: *1.7em*;

}

**a** {

font-weight: *700*;

text-decoration: *none*;

color: *#fff*;

}

**a***:hover* {

text-decoration: *underline*;

}

**p***#pleft* {

max-width:*20em*;

float:*left*;

}

**p***#pright* {

max-width:*20em*;

float:*left*;

}

**ul** {

clear:*both*;

}

**html** { font-size: *62.5%*; }

**body** { font-size: *1em*;}

/\* PYRAMID CODE \*/

*.stage* {

-webkit-transform:*scale(1.85)*;

transform:*scale(0.85)*;

float:*right*;

margin-right:*120px*;

margin-top:*30px*;

width:*0px*; height:*0px*;

position:*relative*;

-webkit-perspective:*1200px*;

-webkit-perspective-origin:*50%* *50%*;

perspective:*1200px*;

perspective-origin:*50%* *50%*;

}

*.pyramid3d* {

position:*relative*;

width:*150px*;

height:*150px*;

-webkit-transform-style: *preserve-3d*;

transform-style: *preserve-3d*;

-webkit-transform: *rotateX(75deg)* *rotate(65deg)*;

transform: *rotateX(75deg)* *rotate(65deg)*;

-webkit-animation: *turnPyramid* *10s* *linear* *infinite*;

animation: *turnPyramid* *10s* *linear* *infinite*;

}

*.triangle* {

-webkit-transform-style:*preserve-3d*;

transform-style:*preserve-3d*;

width:*0*; height:*0*;

background:*none*;

}

*.triangle:before*{

content:*""*;

position: *absolute*;

height: *0*; width: *0*;

border-style: *solid*;

border-width: *176px* *75px* *0* *75px*;

}

*.side1* { -webkit-transform: *translatex(0)* *rotatey(115.2deg)* *rotatez(90deg)*; transform: *translatex(0)* *rotatey(115.2deg)* *rotatez(90deg)*; }

*.side2* { -webkit-transform: *translatex(150px)* *rotatez(90deg)* *rotatex(64.8deg)*; transform: *translatex(150px)* *rotatez(90deg)* *rotatex(64.8deg)*; }

*.side3* { -webkit-transform: *translatez(0)* *rotatex(64.8deg)*; transform: *translatez(0)* *rotatex(64.8deg)*; }

*.side4* { -webkit-transform: *translatey(150px)* *rotatex(115.2deg)*; transform: *translatey(150px)* *rotatex(115.2deg)*; }

*.side1:before*{ border-color: *rgba(115,* *115,* *0,* *0.3)* *transparent* *transparent* *transparent*; }

*.side2:before*{ border-color: *rgba(20,* *90,* *225,* *0.3)* *transparent* *transparent* *transparent*; }

*.side3:before*{ border-color: *rgba(255,* *0,* *0,* *0.3)* *transparent* *transparent* *transparent*; }

*.side4:before*{ border-color: *rgba(0,* *255,* *255,* *0.3)* *transparent* *transparent* *transparent*; }

@**-webkit-keyframes** **turnPyramid** { 100% { -webkit-transform: *rotateX(75deg)* *rotate(425deg)*; } }

@**keyframes** **turnPyramid** { 100% { transform: *rotateX(75deg)* *rotate(425deg)*; } }

@media (max-width: 300px) {

**html** { font-size: *70%*; }

*.stage* { -webkit-transform:*scale(0.05)*; transform:*scale(0.05)*; }

}

@media (max-width: 440px) {

**h1** { line-height:*55px*; }

}

@media (max-width: 460px) {

*.stage* { position:*absolute*; top:*25px*; left:*50%*; margin-left:*-45px*; }

**h1** { margin-top:*50px*; text-align:*center*; }

}

@media (max-width:600px) { *.stage* { -webkit-transform:*scale(0.55)*; transform:*scale(0.55)*; margin-right:*60px*; } }

@media (min-width: 600px) {

**html** { font-size: *80%*; }

*.stage* { -webkit-transform:*scale(0.68)*; transform:*scale(0.68)*; margin-right:*80px*; }

}

@media (min-width: 880px) {

**html** { font-size: *120%*; }

**p,** **li** { font-size: *1em*; }

**p***#pright* { margin-left:*3em*; }

*.stage* { -webkit-transform:*scale(0.85)*; transform:*scale(0.85)*; margin-right:*120px*; }

}

**Index.html**

<!DOCTYPE html>

<link rel=*"stylesheet"* type=*"text/css"* href=*"../css/default.css"* >

<html lang=*"en"*>

<head>

<title>Prajna Assessment</title>

<!-- Bootstrap -->

<link type=*"text/css"* href=*"css/bootstrap.min.css"* rel=*"stylesheet"* />

<link type=*"text/css"* href=*"css/default.css"* rel=*"stylesheet"* />

</head>

<body>

<div id=*"container"*>

<div id=*"content"*>

<div id=*"about"*>

<h1>

<div style='float: *left*; margin-bottom: *14px*;'>Prajna Shetty

</div>

<div class=*"stage"*>

<div class=*"pyramid3d"*>

<div class=*"triangle side1"*></div>

<div class=*"triangle side2"*></div>

<div class=*"triangle side3"*></div>

<div class=*"triangle side4"*></div>

</div>

</div>

</h1>

<h3 style='clear: *both*' class=*"subhead"*>

<a>SPRING-BOOT</a> Web App

</h3>

<p id=*'pleft'*>As requested by management, this is my final

product stage, demonstrating the automated, integrated, and

deployed spring-boot web application.</p>

<p id=*'pright'*>This is an environment where the application is

hosted and accessed by users. The following were used in its

development:</p>

<ul>

<li><a>Eclipse</a></li>

<li><a>GitHub</a></li>

<li><a>Jenkins</a></li>

<li><a>AWS EC2/ Virtual machine</a></li>

</ul>

<p>Feel free to contact Prajna shetty with any new requests or

upgrades to this product!</p>

</div>

</div>

</div>

</body>

</html>