package com.jdoodle;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

import org.springframework.boot.CommandLineRunner;

import org.springframework.web.client.RestTemplate;

import org.springframework.http.\*;

import java.util.Map;

class WebhookResponse {

private String webhook;

private String accessToken;

public String getWebhook() { return webhook; }

public String getAccessToken() { return accessToken; }

public void setWebhook(String webhook) { this.webhook = webhook; }

public void setAccessToken(String accessToken) { this.accessToken = accessToken; }

}

@SpringBootApplication

public class JdoodleProjectApplication implements CommandLineRunner {

public static void main(String[] args) {

SpringApplication.run(JdoodleProjectApplication.class, args);

}

@Override

public void run(String... args) throws Exception {

RestTemplate restTemplate = new RestTemplate();

String apiUrl = "https://bfhldevapigw.healthrx.co.in/hiring/generateWebhook/JAVA";

Map<String, String> requestBody = Map.of(

"name", "Sakshi Upadhyay",

"regNo", "22BCI0266",

"email", "sakshii.upadhyayy@gmail.com"

);

HttpHeaders headers = new HttpHeaders();

headers.setContentType(MediaType.APPLICATION\_JSON);

HttpEntity<Map<String, String>> entity = new HttpEntity<>(requestBody, headers);

ResponseEntity<WebhookResponse> response = restTemplate.postForEntity(apiUrl, entity, WebhookResponse.class);

if (response.getBody() == null) {

System.out.println("Webhook generation failed.");

return;

}

String webhookUrl = response.getBody().getWebhook();

String accessToken = response.getBody().getAccessToken();

String sqlQuery =

"SELECT e.EMP\_ID, e.FIRST\_NAME, e.LAST\_NAME, d.DEPARTMENT\_NAME, " +

" (SELECT COUNT(\*) FROM EMPLOYEE e2 " +

" WHERE e2.DEPARTMENT = e.DEPARTMENT AND e2.DOB > e.DOB) AS YOUNGER\_EMPLOYEES\_COUNT " +

"FROM EMPLOYEE e " +

"JOIN DEPARTMENT d ON e.DEPARTMENT = d.DEPARTMENT\_ID " +

"ORDER BY e.EMP\_ID DESC;";

HttpHeaders submitHeaders = new HttpHeaders();

submitHeaders.setBearerAuth(accessToken);

submitHeaders.setContentType(MediaType.APPLICATION\_JSON);

Map<String, String> solutionBody = Map.of("finalQuery", sqlQuery);

HttpEntity<Map<String, String>> solutionEntity = new HttpEntity<>(solutionBody, submitHeaders);

ResponseEntity<String> submitResponse = restTemplate.postForEntity(webhookUrl, solutionEntity, String.class);

System.out.println("Submission Response: " + submitResponse.getBody());

}

}