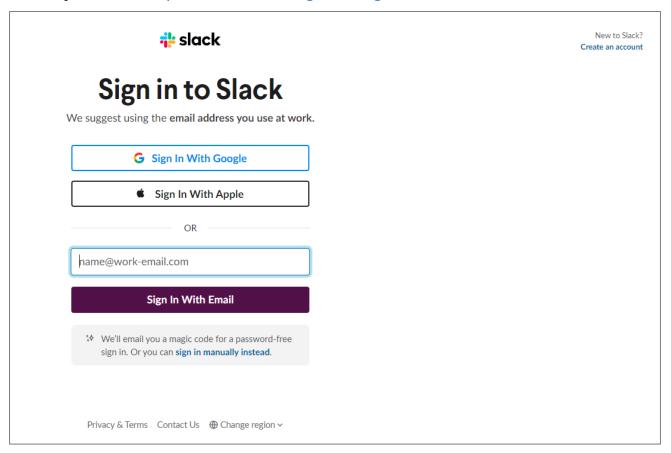
# Chathushi Jayarathna

Module No: 1 IU No: 5 Exercise No. 5

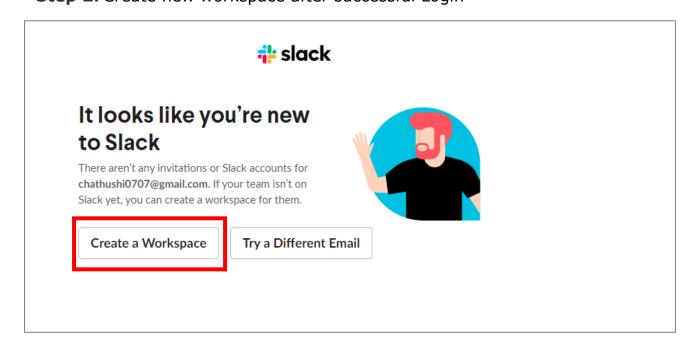
| Lab Assessment           | Assignment 4 – Implement webhook integration with external App       |
|--------------------------|--|
| Statement                | Referring to Assignment-1's Project Scenario,                        |
|                          | Referring to Assignment 131 Toject Scenario,                         |
|                          |  |
|                          | The scope of this assignment is to implement webhook Integration for |
|                          | notification using Slack for 'XYZ Cars Pte Ltd'.                     |
|                          |  |
|                          | These are the steps provided to build an API.                        |
|                          | ·  |
|                          | 1 Set up slack for Integration                                       |
|                          | Set up slack for Integration   |
|                          | 2. Creating an App for webhook integration                           |
|                          | 3. Enabling Webhook in App   |
|                          | 4. Implement webhook Integration in XYZ portal which is already      |
|                          | developed.   |
|                          | 5. Testing using Postman   |
|                          | 6. Use the API in React Application.                                 |
|                          |  |
|                          | Provide the source code of developed application.                    |
|                          | Provide screen capture of final result pages for API testing.        |
| Tarbaire                 |  |
| Technical<br>Environment | - Spring Boot, Slack for Integration, POSTMAN, React JS              |
| Guidelines               | -  |
| Duration                 | 120 mins   |

1. Set up slack for Integration

**Step 1:** Visit <a href="https://slack.com/signin#/signin">https://slack.com/signin#/signin</a>



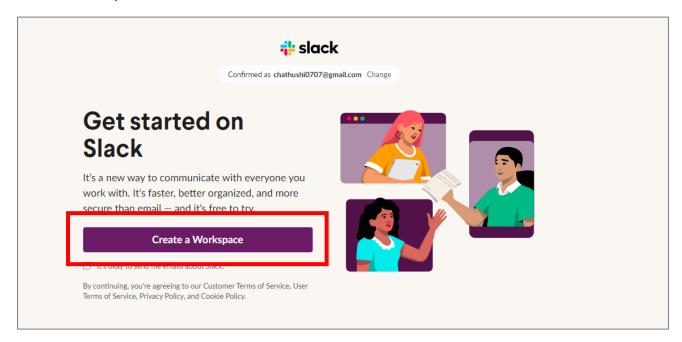
Step 2: Create new workspace after successful Login

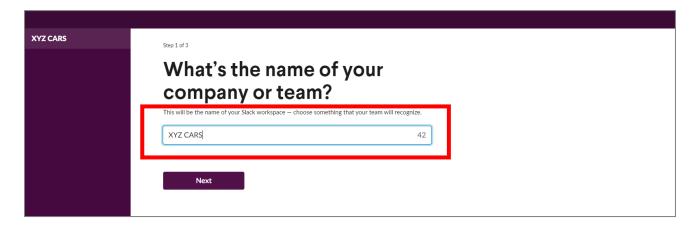


Step 3: Steps to create new Workspace

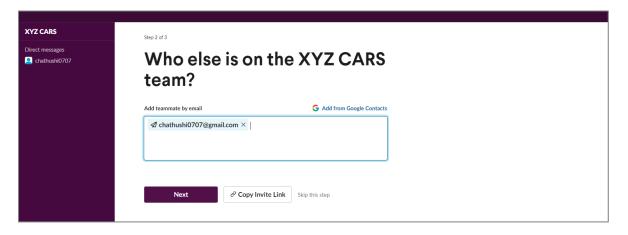
Click on create new workspace

Enter your team name

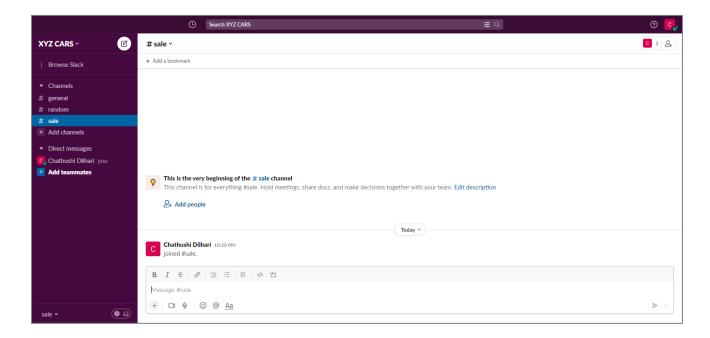




Step 4: Enter your Team working details

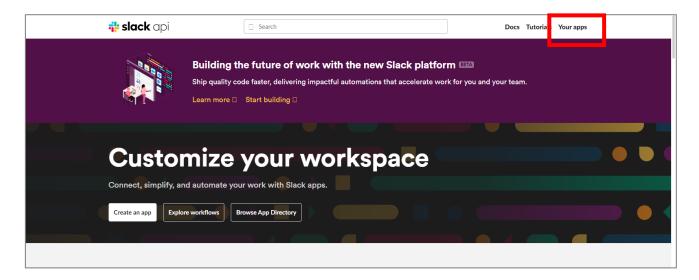


**Step 5:** You can see the webhook-learning channel with added teammates. Here, you can send messages to your team members.



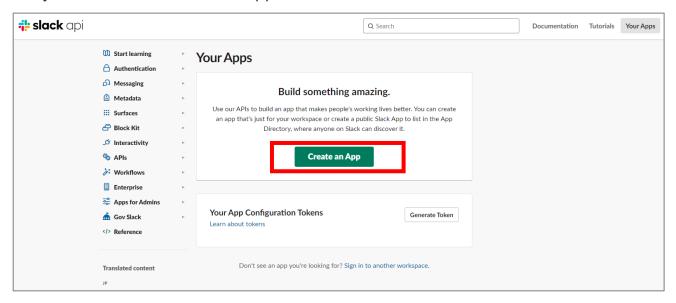
2. Creating an App for webhook integration

Step 1: Visit https://api.slack.com and click "your app" button

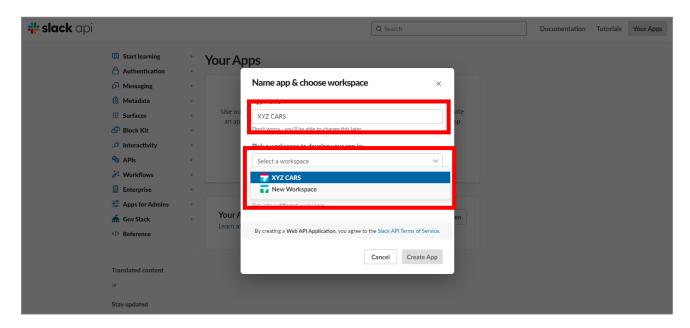


# Chathushi Jayarathna

Step 2: Click on create new app

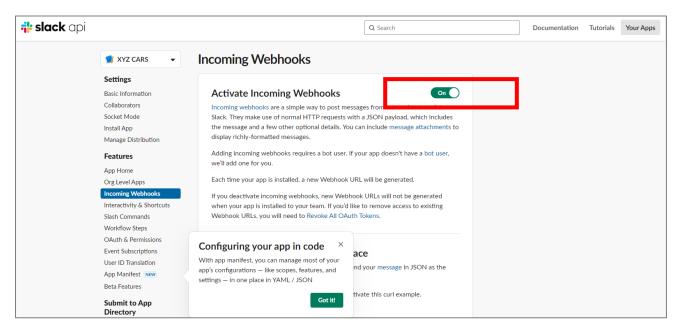


Step 3: Add the App name and select the workspace

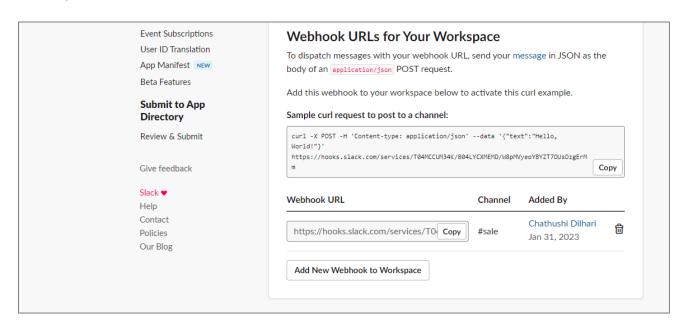


3. Enabling Webhook in App

### Step 1: Click on Incoming webhook and Activate incoming webhooks



# **Step 2:** After activation of the webhook, you see the webhook URL of your workspace.



4. Implement webhook Integration in XYZ portal which is already developed.

#### MessageDto.java

```
package xyz.cars.restapi.models;

public class MessageDto {
    private String text;

public String getText() {
    return text;
    }

public void setText(String text) {
    this.text = text;
    }
}
```

### MessageSenderImpl.java

```
package xyz.cars.restapi.service;
import java.util.HashMap;[]

@Service
public class MessageSenderImpl implements MessageSender {
    private static final String HOOKS_URL = "https://hooks.slack.com/services/%s";

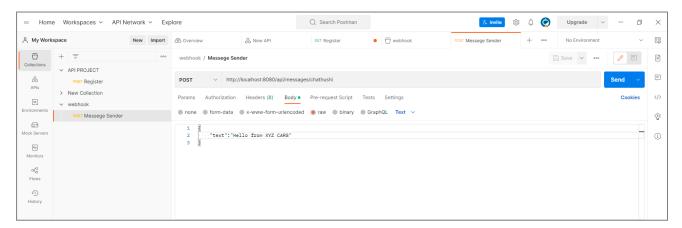
@Override
public void sendMessage(String userName, MessageDto message) throws JsonProcessingException {
        Map<String, String> myMap = new HashMap<String, String>();
        myMap.put(userName, "T04MCCUM34K/B04LYCXMEMD/W8pMVyeoYBYZT7OUsOzgErMm");

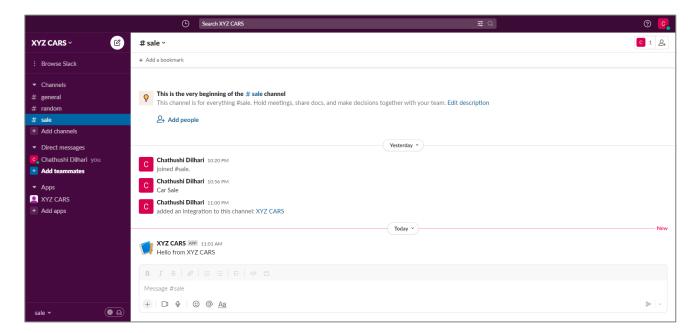
        String userChannelId = myMap.get(userName);
        String userWebhookUrl = String.format(HOOKS_URL, userChannelId);
        RestTemplate restTemplate = new RestTemplate();
        HttpHeaders headers = new HttpHeaders();
        headers.setContentType(MediaType.APPLICATION_JSON);
        ObjectMapper objectMapper = new ObjectMapper();
```

# WebHookController.java

#### **Chathushi Jayarathna**

#### 5. Testing using Postman





6. Use the API in React Application.

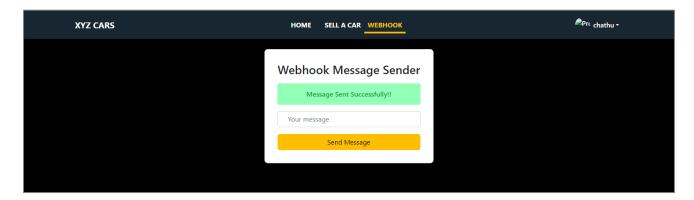
MessegeSender.java

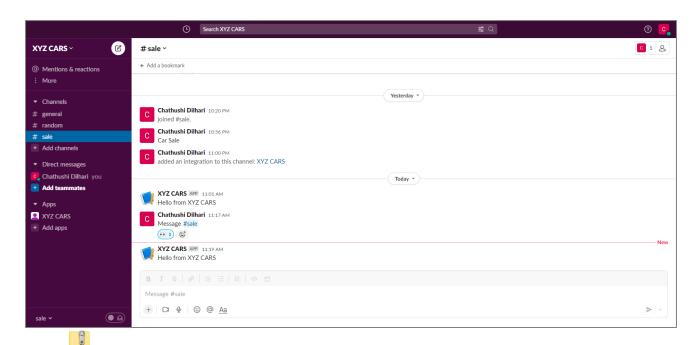
```
package xyz.cars.restapi.repository;
import org.springframework.data.jpa.repository.JpaRepository;
import xyz.cars.restapi.entity.UserAccount;
public interface UserAccountRepository extends JpaRepository<UserAccount, Integer> {
 public UserAccount findByUsername(String username);
import axios from "axios";
import { useContext, useRef, useState } from "react";
import AuthContext from "../../context/auth-context";
import "../Auth/AuthForm.css";
const MessageSender = () => {
  const authCtx = useContext(AuthContext);
  const inputTextRef = useRef();
  const [success, setSuccess] = useState("");
  // SUBMIT HANDLER
  const onSubmitHandler = (e) => {
    e.preventDefault();
    const inputText = inputTextRef.current.value;
      .post(`http://localhost:8080/api/messages/${authCtx.name}`, {
        text: inputText,
      .then((res) => {
        setSuccess("SUCCESS");
      .catch((err) => {
       console.log(err.message);
        setSuccess("ERROR");
      });
    inputTextRef.current.value = "";
  };
    <div className="d-flex justify-content-center">
      <div className="form-auth">
        <h3 className="mb-3 fw-semibold text-center">Webhook Message Sender</h3>
        <form onSubmit={onSubmitHandler}>
          {success === "SUCCESS" && (
            <div className="form-success text-center">
              Message Sent Successfully!!
            </div>
          )}
          <input
            ref={inputTextRef}
            className="form-control mb-3 ps-4 pe-0"
            type="text"
            name="text"
            placeholder="Your message"
```

# **Assignment 4**

# Chathushi Jayarathna







Assignment 4.zip