**📜 Banking Bot – AWS Lex & Kommunicate Integration Guide 🏦🤖**

**📌 Overview**

This guide provides step-by-step instructions to:  
✔️ **Create an AWS Lex chatbot**  
✔️ **Integrate AWS Lex with Lambda**  
✔️ **Connect the chatbot with a website using Kommunicate API**

By the end of this guide, your **Banking Bot** will be ready for deployment on a website or mobile application. 🚀

**📂 Table of Contents**

1️⃣ **Creating an AWS Lex Bot**  
2️⃣ **Configuring Intents in AWS Lex**  
3️⃣ **Integrating Lex with AWS Lambda**  
4️⃣ **Deploying the Bot on a Website using Kommunicate API**  
5️⃣ **Testing the Chatbot**

**1️⃣ Creating an AWS Lex Bot**

**Step 1: Login to AWS Lex**

1️⃣ Go to [AWS Console](https://aws.amazon.com/)  
2️⃣ Search for **Lex** in the AWS search bar  
3️⃣ Click on **Amazon Lex**

**Step 2: Create a New Chatbot**

1️⃣ Click on **Create Bot**  
2️⃣ Select **Create a blank bot**  
3️⃣ **Bot Name**: BankingBot  
4️⃣ **IAM Role**: Choose Create a new role with basic permissions  
5️⃣ **Session Timeout**: Set to 5 minutes  
6️⃣ Click **Next**

**2️⃣ Configuring Intents in AWS Lex**

**Step 3: Add Intents**

AWS Lex uses **intents** to process user requests. Add the following intents:

| **Intent Name** | **Description** |
| --- | --- |
| CheckBalance | Fetch account balance |
| TransferFunds | Perform fund transfer |
| AccountSummary | Get recent transactions |

**Step 4: Add Sample Utterances**

For each intent, define **utterances** (example user inputs).

**CheckBalance Intent**

📌 **Utterances:**

pgsql

CopyEdit

What is my account balance?

Show my balance

How much money do I have?

📌 **Response:**  
"Your current account balance is **$5000**."

**TransferFunds Intent**

📌 **Utterances:**

pgsql

CopyEdit

Transfer $100 to my savings account

Send $500 to John

Move $2000 to my other account

📌 **Response:**  
"Your transfer of **$100** to Savings Account is successful!"

**3️⃣ Integrating Lex with AWS Lambda**

**Step 5: Create an AWS Lambda Function**

1️⃣ Go to **AWS Lambda** → Click **Create Function**  
2️⃣ **Function Name**: BankingBotHandler  
3️⃣ **Runtime**: Python 3.x  
4️⃣ **Permissions**: Choose Create a new IAM role

**Step 6: Deploy Lambda Code**

📌 Open lambda\_function.py in AWS Lambda editor and paste:

python

CopyEdit

import json

def lambda\_handler(event, context):

intent\_name = event['currentIntent']['name']

if intent\_name == "CheckBalance":

return {

"dialogAction": {

"type": "Close",

"fulfillmentState": "Fulfilled",

"message": {"contentType": "PlainText", "content": "Your balance is $5000."}

}

}

elif intent\_name == "TransferFunds":

return {

"dialogAction": {

"type": "Close",

"fulfillmentState": "Fulfilled",

"message": {"contentType": "PlainText", "content": "Your transfer is successful."}

}

}

return {

"dialogAction": {

"type": "Close",

"fulfillmentState": "Failed",

"message": {"contentType": "PlainText", "content": "I couldn't understand that request."}

}

}

📌 Click **Deploy** to save changes.

**Step 7: Connect Lambda to Lex**

1️⃣ In AWS Lex, go to **CheckBalance Intent**  
2️⃣ Scroll to **Fulfillment** → Select **AWS Lambda Function**  
3️⃣ Choose BankingBotHandler  
4️⃣ Click **Save Intent**

**4️⃣ Deploying the Bot on a Website (Kommunicate API)**

**Step 8: Sign Up for Kommunicate**

1️⃣ Go to [Kommunicate.io](https://www.kommunicate.io/)  
2️⃣ Create a **free account**  
3️⃣ Copy the **Kommunicate App ID** from the dashboard

**Step 9: Embed the Chatbot on Your Website**

1️⃣ Add the following script inside your website's **HTML file**:

html

CopyEdit

<script type="text/javascript">

(function(d, m){

var kommunicateSettings = {

"appId":"YOUR\_APP\_ID",

"popupWidget":true,

"automaticChatOpenOnNavigation":true

};

var s = document.createElement("script"); s.type = "text/javascript"; s.async = true;

s.src = "https://widget.kommunicate.io/v2/kommunicate.app";

var h = document.getElementsByTagName("head")[0]; h.appendChild(s);

window.kommunicate = m; m.\_globals = kommunicateSettings;

})(document, window.kommunicate || {});

</script>

📌 **Replace** "YOUR\_APP\_ID" with your Kommunicate **API Key**.

**5️⃣ Testing the Chatbot**

**Step 10: Test AWS Lex in Console**

1️⃣ Open **AWS Lex**  
2️⃣ Click on BankingBot → **Test in Console**  
3️⃣ Enter: "What is my balance?"  
4️⃣ The bot should reply: "Your balance is $5000."

**Step 11: Test Chatbot on Website**

1️⃣ Open your **website**  
2️⃣ Click on the **chat widget** (bottom-right)  
3️⃣ Type: "Transfer $500"  
4️⃣ The chatbot should **respond** with a confirmation message

**🎯 Conclusion**

✅ **AWS Lex Bot is Created**  
✅ **Integrated with Lambda for backend processing**  
✅ **Chatbot is live on a website using Kommunicate**

🚀 **Now your banking chatbot is ready to assist users!** 🎉