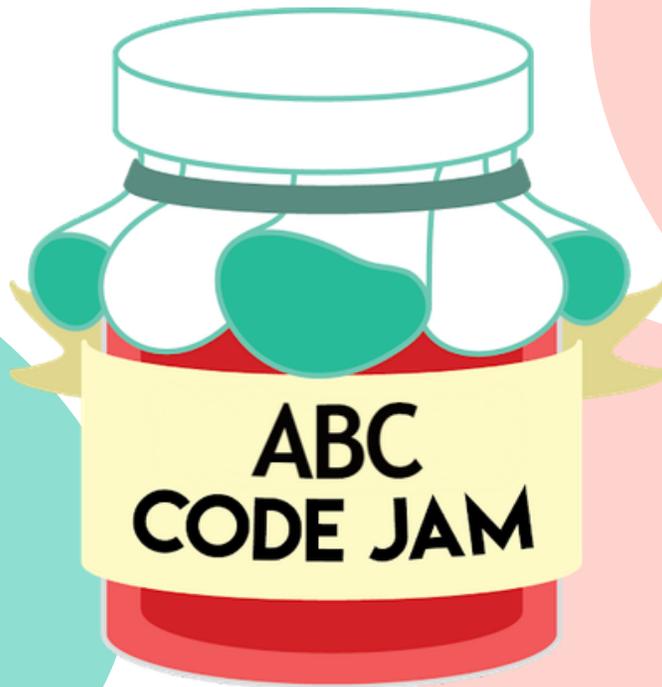


2026

# ABC CODE JAM

SAMPLE  
PROJECT  
HANDBOOK



# WELCOME CODERS!

THIS BOOKLET WAS CREATED TO HELP YOU GET SOME IDEAS FOR YOUR PROJECTS THIS YEAR.

THESE ARE BASIC FRAMEWORKS FOR PROJECTS THAT HAVE BEEN ALIGNED TO THE THEME TO HELP YOU GET SOME INSPIRATION.

FEEL FREE TO GET SOME INSPIRATION FROM THESE, BUT REMEMBER:

**YOUR PROJECT SHOULD BE YOUR OWN ORIGINAL WORK!**



# THIS YEAR'S THEME

**INCLUSIVITY AND ACCESSIBILITY** MEANS USING TECHNOLOGY TO MAKE THE WORLD MORE OPEN AND WELCOMING FOR EVERYONE.

## **WHAT DOES THAT MEAN?**

PROJECTS IN THIS AREA AIM TO REMOVE BARRIERS AND SUPPORT PEOPLE WHO MAY BE UNDERREPRESENTED, MARGINALIZED, DISABLED, OR UNDERPRIVILEGED. THIS CAN INCLUDE TOOLS FOR EDUCATION, COMMUNICATION, HEALTH, ENTERTAINMENT, OR DAILY LIFE. THE MAIN GOAL IS TO HELP MORE PEOPLE BENEFIT FROM AND TAKE PART IN THE SOLUTIONS BEING CREATED.

## **DO YOUR RESEARCH FIRST!**

WE KEEP OUR DEFINITION BROAD SO YOU CAN COME UP WITH CREATIVE SOLUTIONS TO CURRENT PROBLEMS WITHIN THIS FIELD.

OUR BIGGEST TIP IS TO **REFRAIN FROM USING AI** TO GET IDEAS. AI IS NOT AS CREATIVE AS YOU ARE!

# BEGINNER PROJECT

READING WORLD IS A DIGITAL LIBRARY DESIGNED TO MAKE CLASSIC STORIES ACCESSIBLE TO EVERYONE, NO MATTER THEIR LANGUAGE OR READING ABILITY. BY OFFERING STORIES IN ENGLISH, SPANISH, AND HINDI, (HOPEFULLY MORE IN THE FUTURE) AND PROVIDING AN EASY-TO-NAVIGATE INTERFACE, THIS PROJECT EMBRACES THE VALUES OF INCLUSIVITY AND ACCESSIBILITY. ITS GOAL IS TO ENSURE THAT ANYONE, ANYWHERE, CAN ENJOY THE JOY OF READING WITHOUT BARRIERS, CREATING A WELCOMING SPACE FOR LEARNERS OF ALL AGES AND BACKGROUNDS.

LINK: [HTTPS://AHRITSU.NEOCITIES.ORG/](https://ahritsu.neocities.org/)

MORE BEGINNER RESOURCES:

## **CODING PLATFORMS:**

[CODE.ORG](https://code.org)

[NEOCITIES](https://neocities.org)

[REPLIT](https://replit.com)

## **CODE WRITING:**

[W3SCHOOLS](https://w3schools.com)

[CODECADEMY](https://codecademy.com)



# BEGINNER PROJECT

The Princess and the Pea Puss in Boots Sleeping Beauty

English Español हिन्दी

## The Princess and the Pea

Once upon a time there was a prince who wanted to marry a princess, but she must be a real princess. So he travelled all over the world to find one, but nowhere could he get what he wanted. There were princesses enough, but it was difficult to find out whether they were real ones.

One evening a terrible storm came on; there was thunder and lightning, and the rain poured down in torrents. Suddenly a knocking was heard at the city gate, and the old king went to open it.

It was a princess standing out there in front of the gate. But, good gracious! what a sight the rain and the wind had made her look. The water ran down from her hair and clothes; it ran down into the toes of her shoes and out again at the heels. And yet she said that she was a real princess.

"Well, we'll soon find that out," thought the old queen. She went into the bedroom, took all the bedding off the bedstead, and laid a pea on the bottom; then she took twenty mattresses and laid them on the pea, and then twenty eider-down beds on top of the mattresses.

On this the princess had to lie all night. In the morning she was asked how she had slept.

"Oh, very badly!" said she. "I have scarcely closed my eyes all night. Heaven only knows what was in the bed, but I was lying on something hard, so that I am black and blue all over my body."

Now they knew that she was a real princess because she had felt the pea right through the twenty mattresses and the twenty eider-down beds.

Nobody but a real princess could be as sensitive as that.

So the prince took her for his wife, for now he knew that he had a real princess; and the pea was put in the museum, where it may still be seen if no one has stolen it.

## Reading World

Hello! Welcome to Reading World. Our mission is to make reading accessible to everyone, regardless of language or ability. Explore classic stories in English, Spanish, and Hindi, and enjoy a seamless reading experience in the language that suits you best :)



The Princess and the Pea Puss in Boots Sleeping Beauty



The Princess and the Pea Puss in Boots Sleeping Beauty

English Español हिन्दी

## राजकुमारी और मटर

एक समय की बात है, एक राजकुमार था जो एक असली राजकुमारी से विवाह करना चाहता था। वह पूरी दुनिया में खोजता रहा, लेकिन उसे कोई निश्चित नहीं मिल पाई।

एक रात भयंकर तूफान आया। महल के दरवाज़े पर दस्तक हुई। बाहर एक राजकुमारी खड़ी थी, जो बारिश में भीग चुकी थी। रानी ने बिस्तर के नीचे एक मटर रखी और उसके ऊपर कई गद्दे रखा दिए।

सुबह राजकुमारी ने बताया कि वह कुछ सस्ता चीज़ के कारण सो नहीं पाई। तब सभी को यकीन हो गया कि वह सच्ची राजकुमारी है। राजकुमार ने उससे विवाह कर लिया।

— हांस क्रिस्टियन एंडरसन

# INTERMEDIATE PROJECT

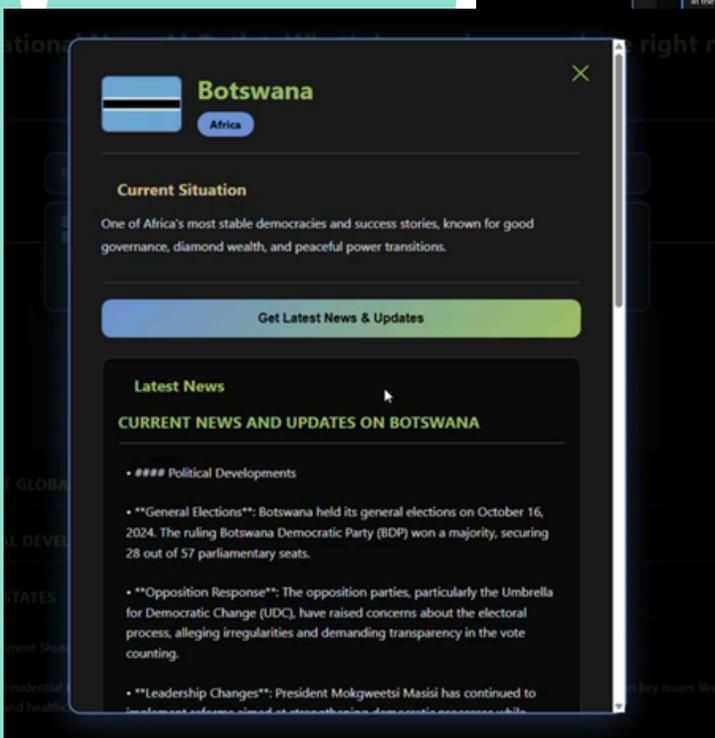
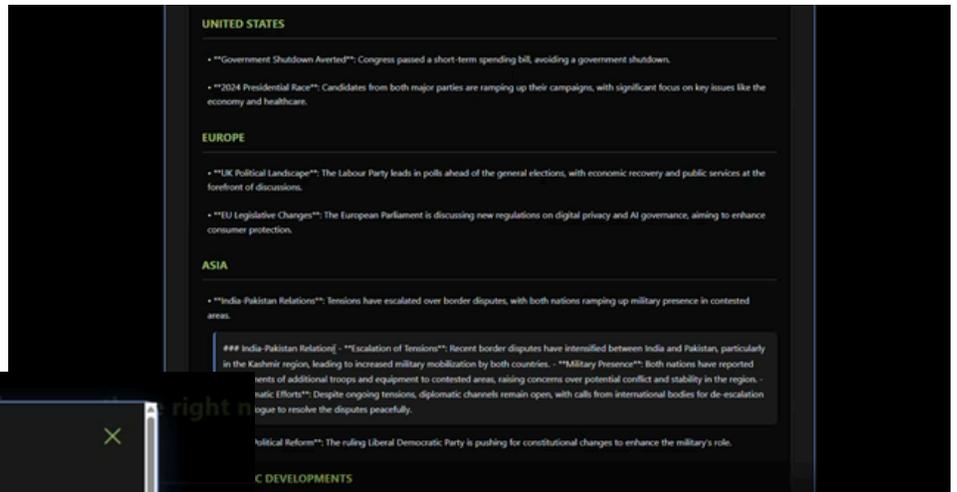
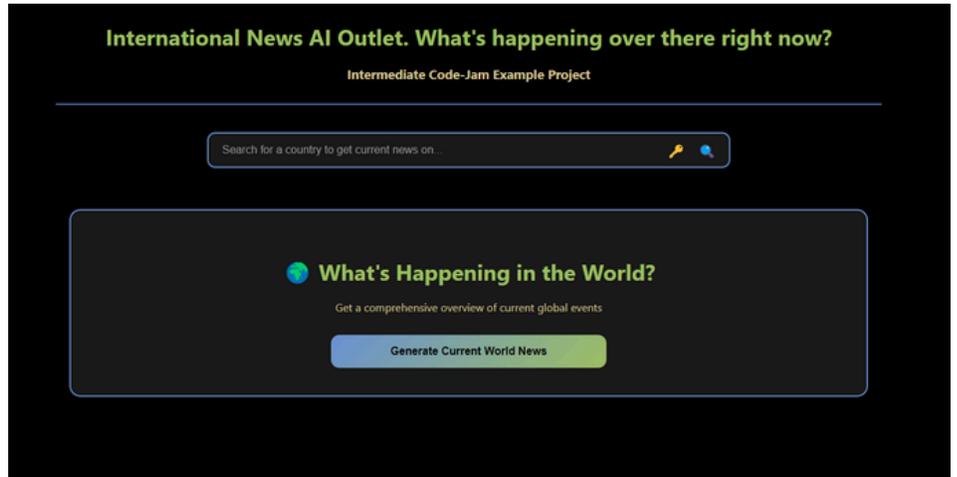
THIS PROJECT PROVIDES A SEARCHABLE DATABASE OF ALL WORLD COUNTRIES ORGANIZED BY REGION (AFRICA, ASIA, EUROPE, NORTH AMERICA, SOUTH AMERICA, OCEANIA). USERS CAN SEARCH FOR ANY COUNTRY AND GET BASIC INFORMATION INCLUDING A FLAG, REGION, AND DESCRIPTION. CLICKING ON A COUNTRY OPENS A DETAILED MODAL SHOWING THE CURRENT POLITICAL/ECONOMIC SITUATION. USERS CAN FETCH REAL-TIME NEWS ABOUT THAT COUNTRY BY CLICKING "GET LATEST NEWS & UPDATES". THERE'S ALSO A "GLOBAL NEWS" SECTION FOR WORLDWIDE NEWS OVERVIEW

- OPENAI API
  - CALLS DIRECTLY IN BROWSER
  - THE RESPONSE IS FORMATTED WITH HEADERS
- RESPONSIVE DARK-THEMED UI
- IMPORTS DATA FROM LISTS INTO A BIG LIST THAT CAN BE SEARCHED THROUGH
  - FUSE.JS LIBRARY

## **LINK:**

[HTTPS://DRIVE.GOOGLE.COM/DRIVE/FOLDERS/1JPU\\_TKQAZKFZJY5A2ELHUVBUKFNQ6KVR](https://drive.google.com/drive/folders/1JPU_TKQAZKFZJY5A2ELHUVBUKFNQ6KVR)

# INTERMEDIATE PROJECT



# ADVANCED PROJECT

THIS APPLICATION IMPROVES ACCESSIBILITY AND INCLUSIVITY BY GIVING CLIENTS PRIVATE AND MULTILINGUAL EXPLANATIONS OF ANXIETY-RELATED THREADING SERVICES THAT ADAPT TO SENSORY, LINGUISTIC, AND CULTURAL NEEDS, REMOVING COMMON BARRIERS THAT PREVENT PEOPLE FROM CONFIDENTLY BOOKING AND COMPLETING APPOINTMENTS. THIS MEANS THAT AN AI AGENT WILL BE ABLE TO REMEMBER CERTAIN FACTS AND DETAILS ABOUT THE CLIENT (LIKE IF THEY WANT A GENTLE APPROACH, CERTAIN EMPLOYEE PREFERENCES, ETC.) AND WILL BE NOTED TO THE EMPLOYEES.

## **RESOURCES/TOOLS:**

[HTTPS://CODE.VISUALSTUDIO.COM/](https://code.visualstudio.com/)

[HTTPS://DOCS.OLLAMA.COM/API/INTRODUCTION](https://docs.ollama.com/api/introduction)

[HTTPS://DEVELOPERS.OPENAI.COM/API/DOCS/QUICKSTART](https://developers.openai.com/api/docs/quickstart)

## **PROCESS:**

- THIS IS A SAMPLE AI-API CHATBOT THAT THE USER CAN INTERACT WITH IN VARIOUS LANGUAGES. FROM THE START OF THE PROJECT, BUSINESS AND THE USAGE OF NEURAL NETWORKS WERE TWO MAJOR CONCEPTS THE ADVANCED APPLICATION WAS INTENDED TO FULFILL. ADDITIONALLY, THE FOLLOWING TOOLS MUST BE DOWNLOADED AND INSTALLED BEFORE ATTEMPTING TO START THIS PROJECT:
  - VSCODE
  - OLLAMA
  - PYTHON3 (LATEST VERSION)
- THE MAIN FILES FOR THIS PROJECT ON THE VSCODE IDE INCLUDE:
  - THREADING\_SALON\_APP.PY
  - SETUP\_OLLAMA.SH
  - RUN\_APP.SH
  - BOOKING\_STATE.JSON
  - README.MD
- HOW IT WORKS IS THAT WHEN THE USER ASKS A QUESTION OR SAYS ANYTHING TO THE CHATBOT, CHATGPT-4 BASIC VERSION WILL BE USED, AND THE OUTPUT THAT THE CHATGPT MODEL SPITS OUT WILL BE DISPLAYED, MOMENTARILY, TO THE USER. THEN, IF THE USER WERE TO ASK FOR AN APPOINTMENT, THEN THE MODEL CAN ACCESS ANOTHER PART OF THE WEBSITE (QUEUE SECTION), AND THE BOT WILL ADD THE USER TO THIS QUEUE (TO THE BOOKING\_STATE.JSON).

# ADVANCED PROJECT

Guide: Hello! I'm your threading comfort guide. 🗨️

I'm here to help you feel informed and comfortable about your threading appointment. You can:

- Ask me about threading and how it works
- Tell me about your concerns or preferences
- Ask questions about what to expect
- Share anything that would help you feel more comfortable

What would you like to know?

You: I would like to book an appointment.

Guide: Great! I'd be happy to help you with that. Could you please tell me what day and time you prefer for your appointment? Also, it's important for us to know if you have any comfort needs such as pain sensitivity, anxiety or if this is your first time getting threading done, any specific sensory preferences (quiet environment, slow pace, explanations), or a technician preference. This will help us ensure you have the most comfortable experience possible.

## Welcome to Threading Salon

Hello! We're here to help you feel comfortable.

Choose what you'd like to know:

Chat with AI Comfort Guide 🗨️

Learn About Threading

Tell Us Your Preferences

Prepare for Your Visit

View Your Notes for Staff

View My Place in Line 📄

Exit

Send

Back to Menu