

CHRIST (Deemed to be University), Bangalore- 560 029

Department of Computer Science

END TRIMESTER EXAMINATION – September 2023

PG I Trimester

Programme : MCA

Max Marks:60

Course Code : MCA172

Time: 2 Hrs

WEB STACK DEVELOPMENT

1. Access the JokesAPI to fetch random Jokes. Create a web page (HTML/CSS) to display the Jokes. Use JavaScript to make API requests to the JokesAPI. Display the random jokes on the web page. **(20 Marks)**

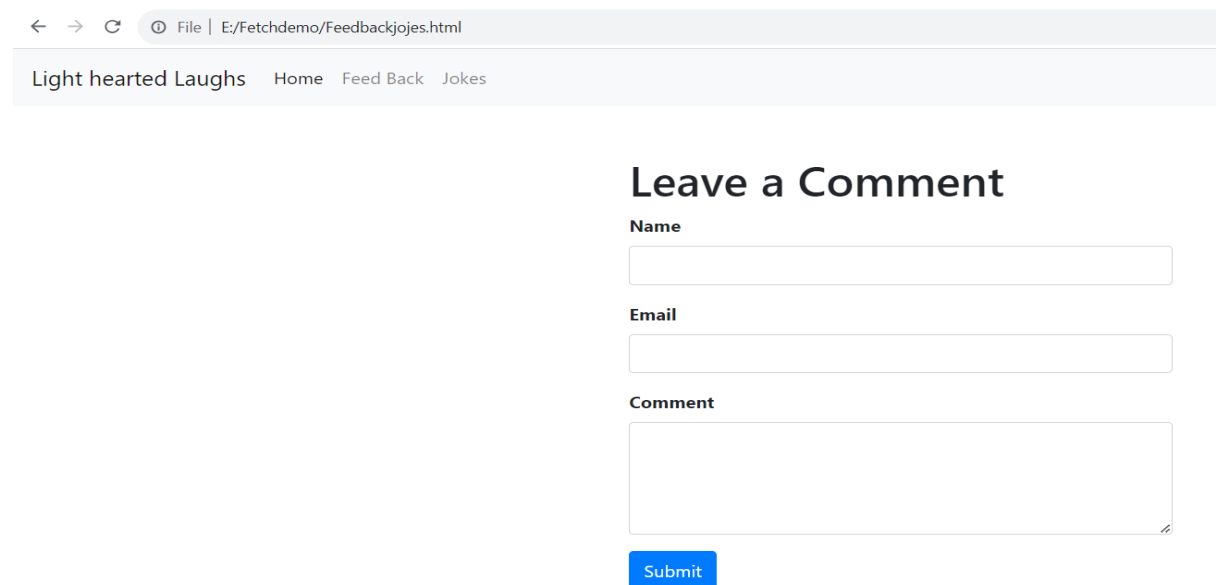
v2.jokeapi.dev/joke/Any?blacklistFlags=nsfw,religious,political,racist,sexist,explicit

- a) Open jokes.html in a web browser. You should see the "Fetch Joke" button and an initial joke displayed. Clicking the button should fetch and display new jokes.



b) Feedback Form with Validations

(10 Marks)



The screenshot shows a web browser window with the address bar displaying 'File | E:/Fetchdemo/Feedbackjoes.html'. The browser's navigation bar includes 'Light hearted Laughs', 'Home', 'Feed Back', and 'Jokes'. The main content area features a form titled 'Leave a Comment'. The form has three input fields: 'Name', 'Email', and 'Comment'. The 'Comment' field is a larger text area. Below the input fields is a blue 'Submit' button.

c. XML :

(10 Marks)

You are tasked with creating an XML schema, XML data, and an XSLT stylesheet to manage and display jokes details including category and jokes. Follow these steps:

XML Schema (XSD): Write an XML schema (XSD) that defines the structure of the XML data. Ensure it enforces the correct data types and elements for category and jokes. Validate that the schema is correct.

XML Data: Create an XML document adhering to the schema you defined in step 1. Populate it with data for at least thirty categories and jokes

XSLT Stylesheet: Develop an XSLT stylesheet that transforms the XML data into an HTML table. Each row of the table should represent a jokes detail with columns for category and jokes.

Validation: Use the schema created in step 1 to validate the XML data. Ensure that it adheres to the defined structure and data types. If there are any validation errors, provide details on how to correct them.

Transformation: Apply the XSLT stylesheet to the validated XML data to generate an HTML table. Each row of the table should display the joke details.

Display HTML Table: Share the HTML table generated from the XML transformation.

Jokes Table

Category	Jokes
Miscellaneous	Why don't scientists trust atoms? Because they make up everything!
Miscellaneous	Parallel lines have so much in common. It's a shame they'll never meet.
Miscellaneous	I used to play piano by ear, but now I use my hands.
Miscellaneous	Did you hear about the mathematician who's afraid of negative numbers? He'll stop at nothing to avoid them.
Miscellaneous	What do you call a fish with no eyes? Fsh.
Miscellaneous	I'm on a seafood diet. I see food, and I eat it.
Miscellaneous	Why did the scarecrow win an award? Because he was outstanding in his field!

Category: Programming

Joke: Why don't scientists trust atoms? Because they make up everything!

Category: Animal Crossing

Joke: Parallel lines have so much in common. It's a shame they'll never meet.

Category: Religion

Joke: I used to play piano by ear, but now I use my hands.

Category: Political

Joke: Did you hear about the mathematician who's afraid of negative numbers? He'll stop at nothing to avoid them.

Category: Food

Joke: What do you call a fish with no eyes? Fsh.

Category: Geography

Joke: I'm on a seafood diet. I see food, and I eat it.

Category: Celebrity

Joke: Why did the scarecrow win an award? Because he was outstanding in his field!

Category: Spooky

Joke: What's orange and sounds like a parrot? A carrot.

Category: Miscellaneous

Joke: How do you organize a space party? You "planet"!

Category: Math Movies

Joke: How does a penguin build its house? Igloos it together!

Category: Miscellaneous

Joke: Why did the bicycle fall over? Because it was two-tired.

Category: Sports Movies

Joke: I'm reading a book on anti-gravity. It's impossible to put down!

Category: History Movies

Joke: What did the grape say when it got stepped on? Nothing, it just let out a little whine.

Category: Music Movies

Joke: Want to hear a construction joke? Sorry, I'm still building it.

Category: Pokemon

Joke: What do you call a snowman with a six-pack? An abdominal snowman.

Category: Animal Movies

Joke: Parallel lines have so much in common. It's a shame they'll never meet.

Category: Christmas Movies

Joke: I used to play piano by ear, but now I use my hands.

Category: Science Movies

Joke: Did you hear about the mathematician who's afraid of negative numbers? He'll stop at nothing to avoid them.

Category: Science

Joke: What do you call a fish with no eyes? Fsh.

Category: New Year

Joke: I'm on a seafood diet. I see food, and I eat it.

Category: Halloween

Joke: Why did the scarecrow win an award? Because he was outstanding in his field!

Category: Miscellaneous

Joke: What's orange and sounds like a parrot? A carrot.

Category: Valentine's Day

Joke: How do you organize a space party? You "planet"!

Category: Miscellaneous

Joke: How does a penguin build its house? Igloos it together!

Category: Math

Joke: Why did the bicycle fall over? Because it was two-tired.

Category: Miscellaneous

Joke: I'm reading a book on anti-gravity. It's impossible to put down!

Category: Christmas

Joke: What did the grape say when it got stepped on? Nothing, it just let out a little whine.

Category: Miscellaneous

Joke: Want to hear a construction joke? Sorry, I'm still building it.

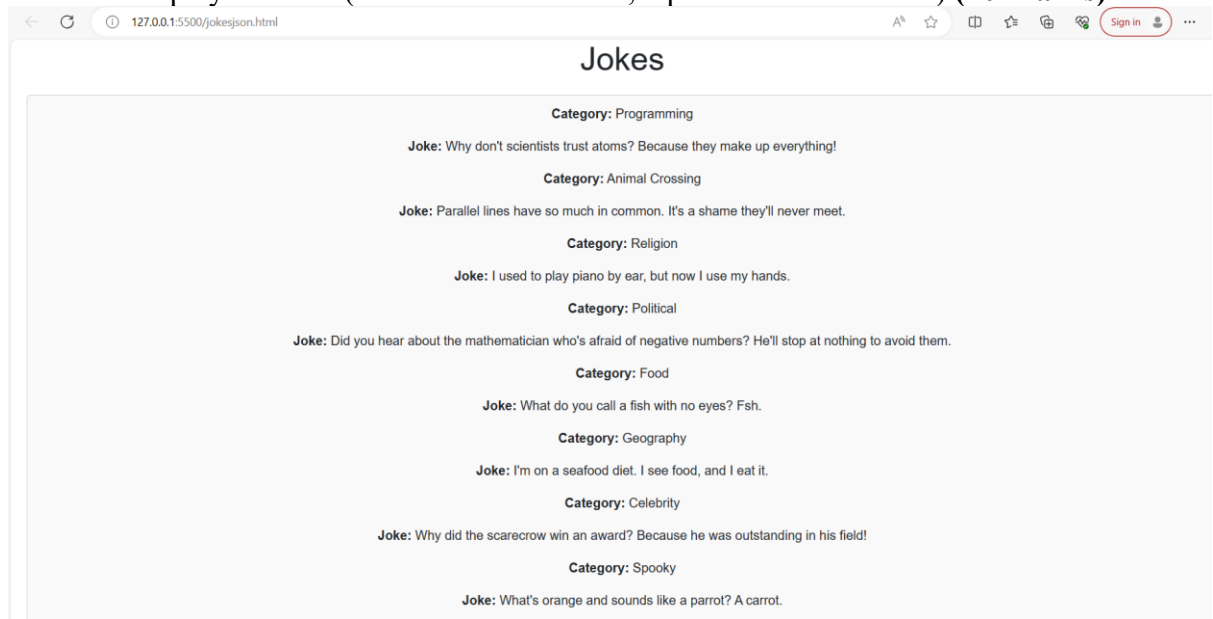
Category: Dark

Joke: What do you call a snowman with a six-pack? An abdominal snowman.

Category: Miscellaneous

Joke: Why don't scientists trust atoms? Because they make up everything!

- d) Create a jokes.json file with the above jokes (Minimum 10). Fetch the jokes.json from local and display it (To avoid CORS error, Open with Live Server) **(20 Marks)**



File to be Uploaded in Google Classroom

1. Index.html
2. Feedback.html
3. XSLT (Tranformed html file)
4. xsd file
5. xml file
6. xslt file
7. Python files (Validator and Transforming)
8. jokes.json file
9. script files
10. css files