

Codex Platform

Name: Suzen Kumar Mohanty
• **Email:** suzenkumarmohanty@gmail.com
• **Project Date:** 23/09/2025
• **Technologies Used:** HTML, CSS, JavaScript, Bootstrap

Introduction

- ❖ Codex is a developer-centric educational blog platform.
- ❖ It provides coding tutorials, tech articles, programming tips,
- ❖ and development resources.
- ❖ Built for speed, readability, and community engagement.

The background is a dark, abstract composition of liquid droplets and bubbles. The colors range from deep purple to bright blue, with some areas appearing almost black. The droplets vary in size, with some being large and prominent, and others being small and numerous. The lighting creates highlights on the edges of the droplets, giving them a three-dimensional appearance. The overall effect is a textured, organic, and somewhat ethereal visual.

01

Project Overview

Project Overview

- ❖ Educational tech/blogging platform
- ❖ Developer-focused content
- ❖ Markdown-based publishing
- ❖ Clean and readable UI
- ❖ Community interaction features



Welcome To CodeX

Fuel Your Coding Journey

CODEX

Latest Tech Blogs

Latest Tech Blogs



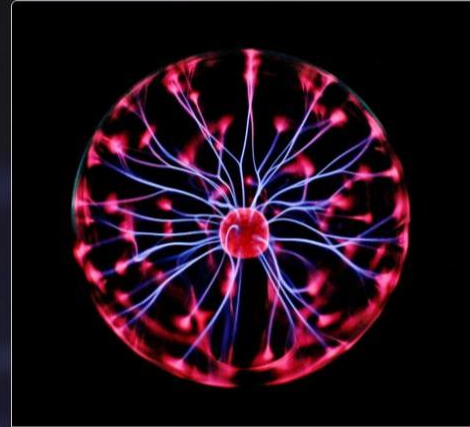
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9 mins



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Software Development & Programming Beginner's guide to JavaScript frameworks How to build an AI-powered website Top 10 GitHub projects to learn from

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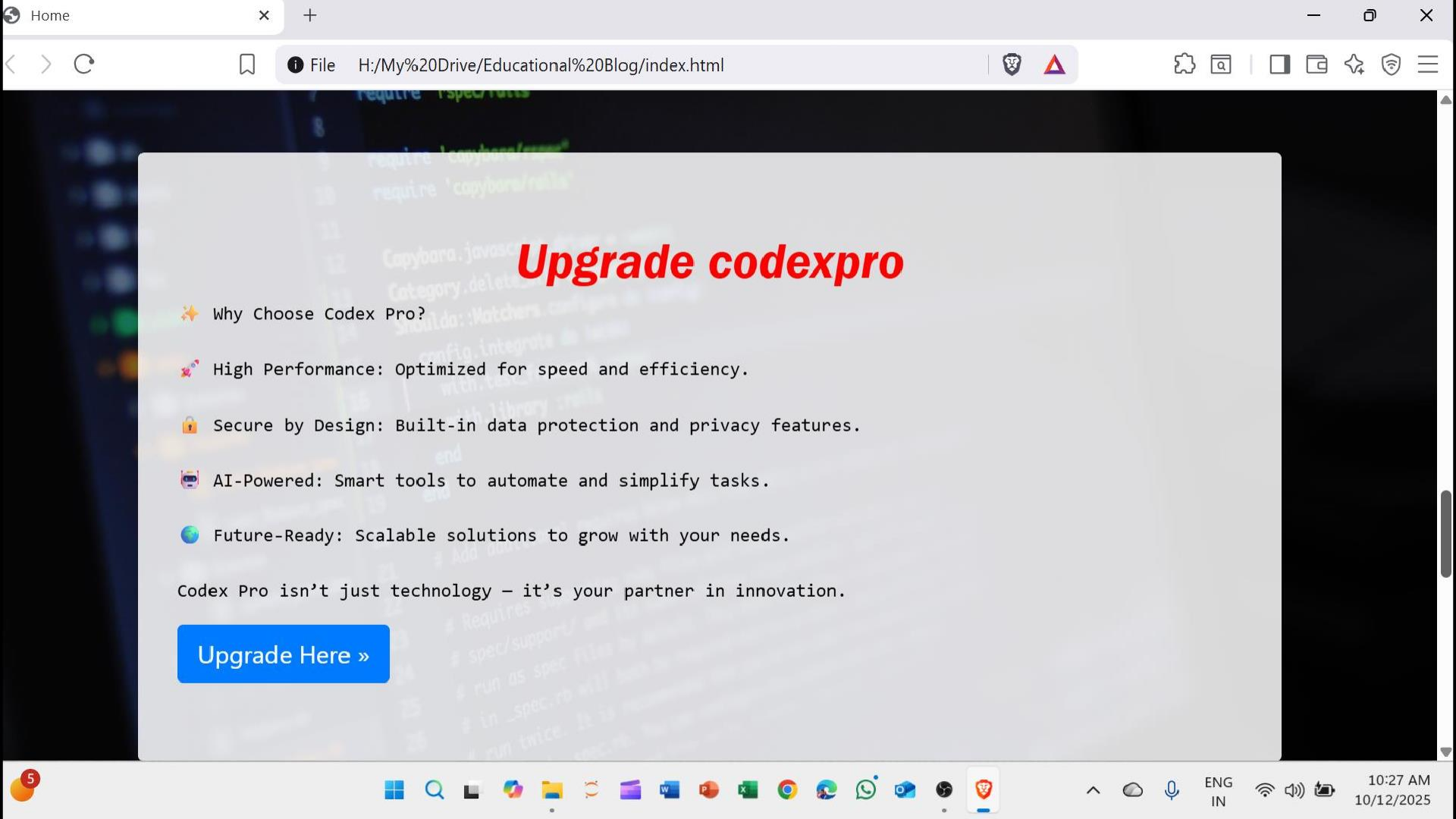
Tech Business & Startups Impact of Big Tech on small businesses Emerging startup trends in 2025 Remote work & productivity tools

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Artificial Intelligence & Automation The rise of AI-powered assistants in healthcare AI in education: Personalized learning platforms Automation in industries: Jobs lost vs. jobs created Ethical issues in AI (deepfakes, bias, surveillance)

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COURSES

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REFERENCES

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DevOps

Cs Subjects

InterView Corner

Software and Tools

CONTACT



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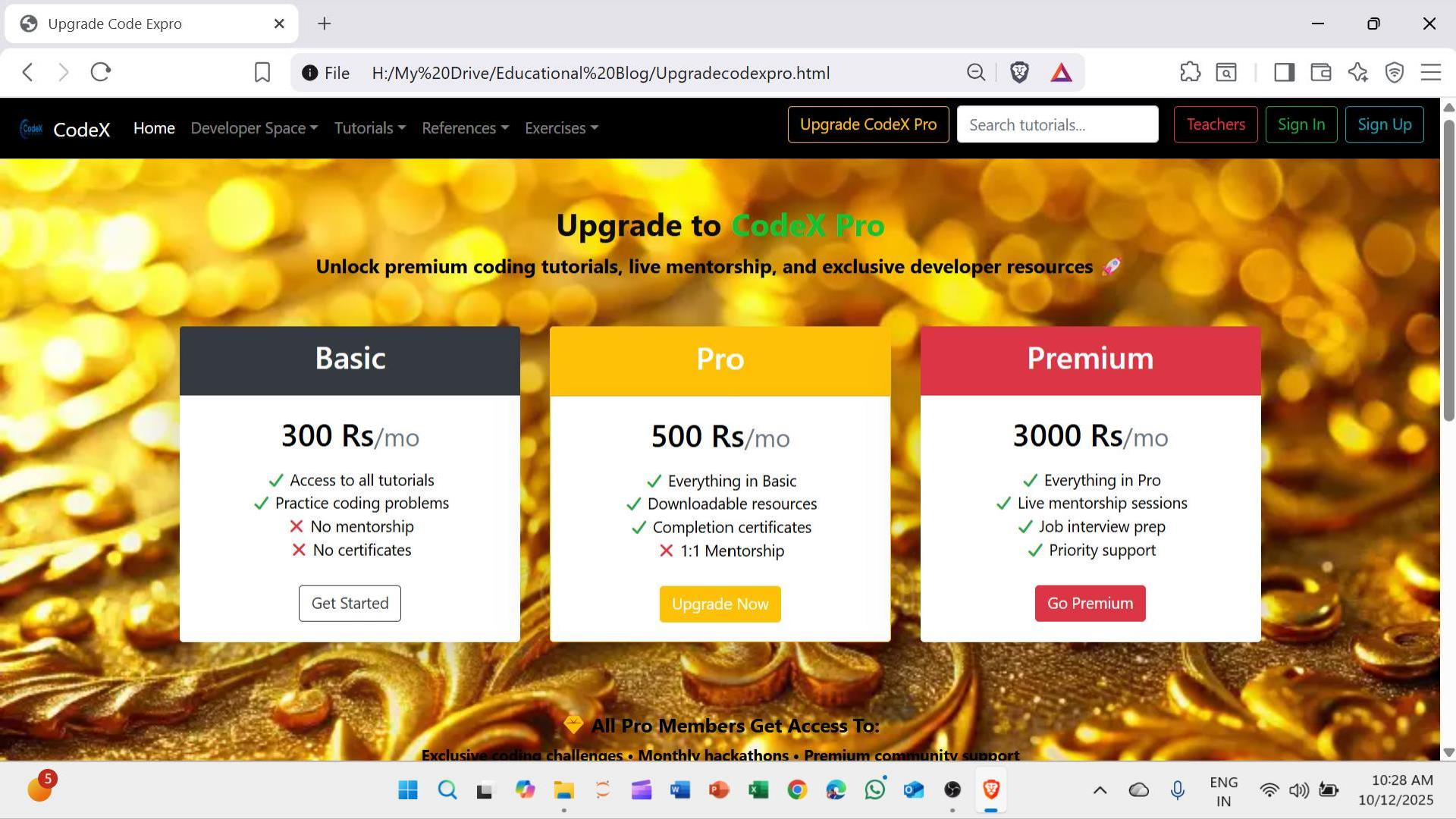
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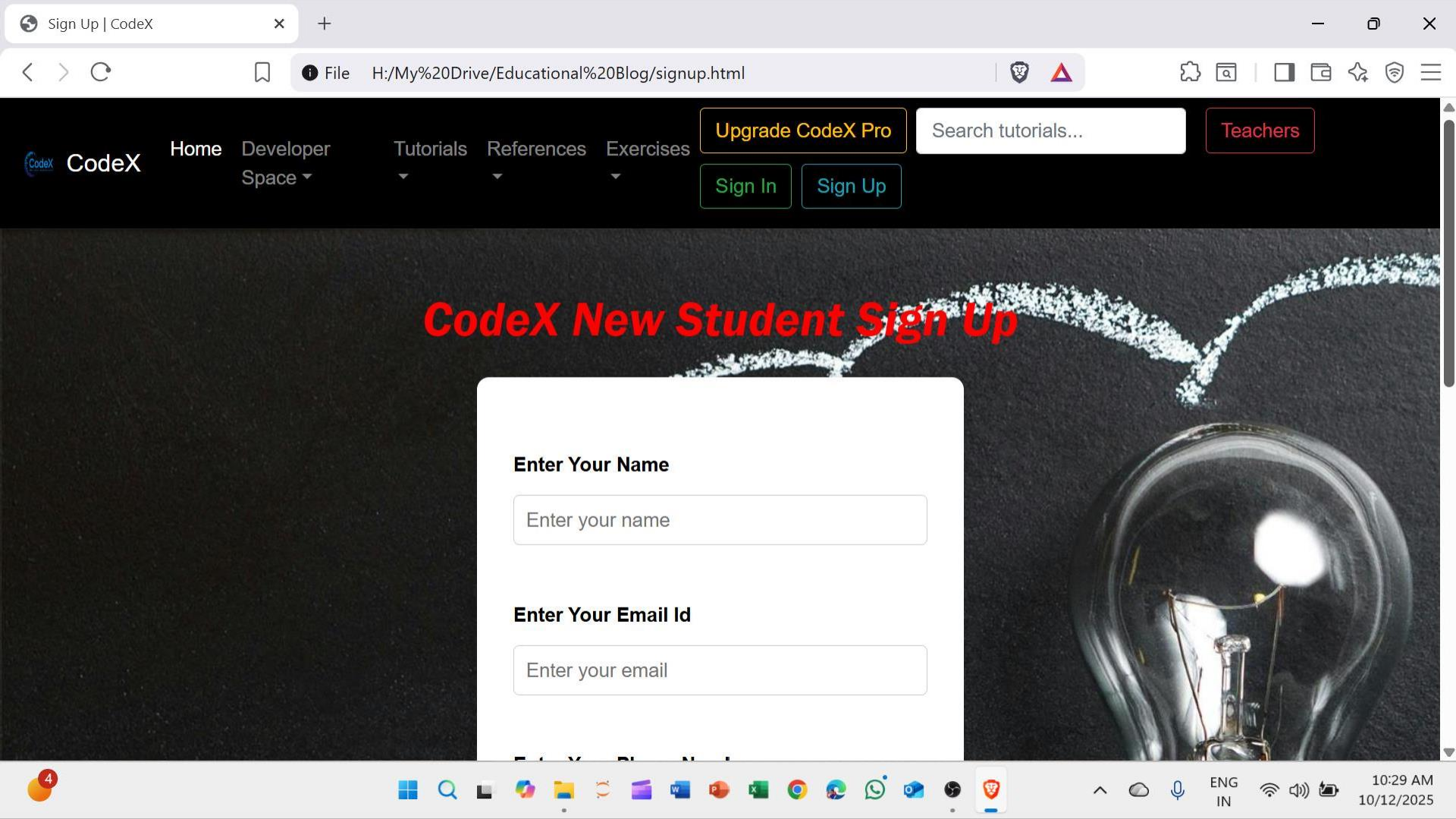
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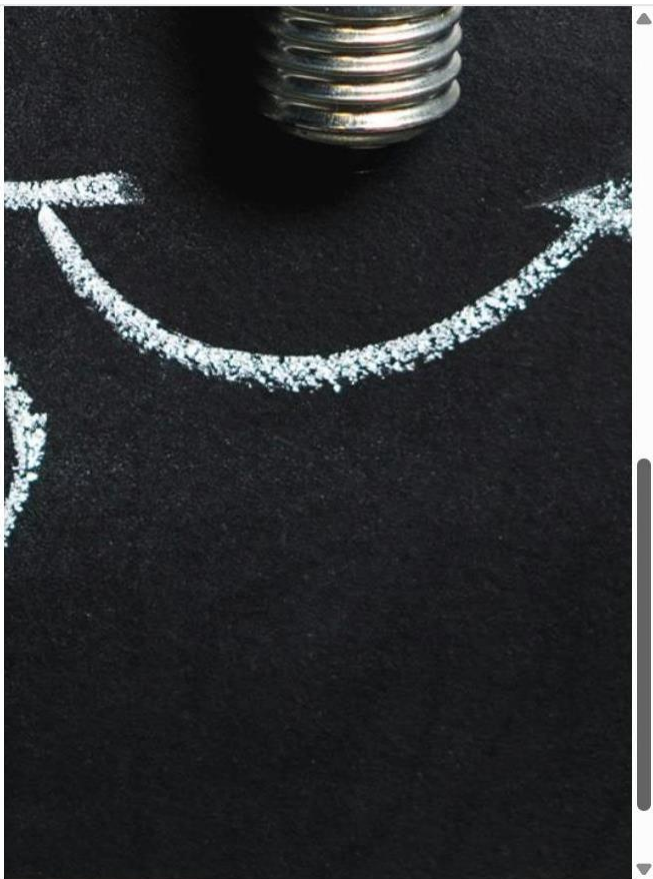
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Upload Your College Id Card

Create Password

Re-enter Password



Welcome To CodeX LMS

Deep Dives into Code, Concepts, and Creativity



Latest Tech Blogs

Let's start Learning

Click Here »

The video thumbnail features a dark background with a code editor on the left and a Pacman maze game on the right. The code editor shows JavaScript code for a Pacman game, including functions for moving the Pacman character and adding neighbors. The maze game shows Pacman and several ghosts on a grid. A red play button is centered over the code editor. The video title "ASMR Programming - Coding Pacman - No Talking" is at the top, and a "Share" button is on the right. A keyboard is visible at the bottom of the video frame.

```
ghost.js > Ghost > addNeighbors  
143 let popped = queue.shift();  
144 if (popped.x == destX && popped.y == destY) {  
145   return popped.moves[0];  
146 } else {  
147   mp[popped.y][popped.x] = 1;  
148   let neighborList = this.addNeighbors(popped, mp);  
149 }  
150  
151  
152  
153 addNeighbors(popped, mp) {  
154   let queue = [];  
155   let numofRows = mp.length;  
156   let numofColumns = mp[0].length;  
157  
158   if (  
159     popped.x - 1 >= 0 &&
```

Welcome To CodeX, Learning Management Portal

Deep Dives into Code, Concepts, and Creati



Latest Tech Blogs



Lets Start Teaching

Start Here »

ASMR Programming - Coding Pacman - No Talking

Share

```

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155   let numofColumns = mp[0].length;
156
157   if
158     popped.x - 1 >= 0 &&

```

Student User Request Approval

#	Student Name	Email	Course	Date	Status	Action
1	Amit Kumar	amit@example.com	BSc Computer Science	05 Oct 2025	Pending	<div>Approve</div> <div>Reject</div>
2	Priya Sharma	priya@example.com	BCA	04 Oct 2025	Pending	<div>Approve</div> <div>Reject</div>
3	Rahul Das	rahul@example.com	MSc IT	03 Oct 2025	Pending	<div>Approve</div> <div>Reject</div>
1	Amit Kumar	amit@example.com	BSc Computer Science	05 Oct 2025	Pending	<div>Approve</div> <div>Reject</div>

The background is a dark, abstract composition. It features a large, semi-circular shape on the right side, possibly representing a lens or a drop of liquid. The overall color palette is dominated by deep purples, blues, and blacks. Numerous small, glowing bubbles or droplets are scattered throughout the scene, some appearing to be in motion. The lighting is dramatic, with bright highlights on the edges of the bubbles and the large circular shape, creating a sense of depth and texture.

02

Objectives

Objectives

- ❖ - Offer a platform for coding tutorials and tech content
- ❖ - Provide simple Markdown-based publishing
- ❖ - Deliver fast and optimized reading experience
- ❖ - Build a community for developers and learners



03

Key Features

Key Features

- ❖ Author Features:
 - ❖ Publish using Markdown
 - ❖ Manage posts and drafts
 - ❖ Tagging and categorization
- ❖ User Features:
 - ❖ Read tutorials and articles
 - ❖ Comment and engage with content
 - ❖ Search and filter posts



04

Technology Stack

Technology Stack

- ❖ Frontend: HTML, CSS, JavaScript
- ❖ Backend: Node.js / PHP / Custom CMS (flexible)
- ❖ Database: MySQL / MongoDB (based on implementation)
- ❖ Publishing Format: Markdown
- ❖ Other: API-based architecture, Authentication system

The background is a dark, abstract composition. It features a large, semi-circular shape on the right side, possibly representing a lens or a window, with a gradient from dark purple to black. Numerous small, glowing bubbles or droplets are scattered across the scene, particularly concentrated on the left side. The overall color palette is dominated by deep purples, blues, and blacks, creating a mysterious and ethereal atmosphere.

05

System Architecture

System Architecture

- ❖ User → Frontend UI → Backend/API → Database
- ❖ Authors publish posts via Markdown.
- ❖ Backend processes Markdown → HTML rendering.
- ❖ Users read optimized articles on the frontend.

The background is a close-up, macro shot of liquid droplets and bubbles. The colors are a mix of deep purple, magenta, and blue, with some lighter, almost white highlights where the light reflects off the surfaces of the droplets. The droplets vary in size, from tiny specks to larger, more prominent spheres. The overall effect is a textured, organic, and somewhat ethereal composition.

06

Content Workflow

Content Workflow

- ❖ Write content in Markdown
- ❖ Upload via editor/dashboard
- ❖ System converts Markdown to HTML
- ❖ Post published to platform
- ❖ Users interact through comments & reactions

A microscopic view of numerous small, spherical oil droplets dispersed in water. The droplets are illuminated from the side, creating bright highlights on their surfaces and dark shadows on the opposite side, giving them a three-dimensional appearance. The background is a dark, slightly hazy blue. The overall scene is a classic example of a colloidal dispersion.

07

Advantages

Advantages

- ❖ - Markdown support for fast writing
- ❖ - Developer-friendly design
- ❖ - Clean typography & layout
- ❖ - Scalable backend
- ❖ - Fast performance

A macro photograph of a dark purple liquid on a dark surface. The liquid has formed several droplets of various sizes. The largest droplets are in the upper left, showing a bright purple rim and a darker center. Numerous smaller droplets are scattered across the surface, some appearing as thin, circular films. The overall lighting is dramatic, highlighting the textures and colors of the liquid.

08

Limitations

Limitations

- ❖ Requires Markdown knowledge
- ❖ Community features need moderation
- ❖ Advanced features depend on backend setup

The background is a dark, abstract composition of liquid droplets and bubbles. The colors range from deep purple to bright blue, with some areas appearing almost black. The droplets vary in size, with some being large and prominent, and others being small and numerous. The lighting creates highlights and shadows, giving the droplets a three-dimensional appearance. The overall effect is a sense of movement and fluidity.

09

Future
Enhancements

Future Enhancements

- ❖ AI-based code explanation
- ❖ Built-in code editor with live previews
- ❖ Dark/light themes
- ❖ API for external integrations
- ❖ Newsletter system

A microscopic view of numerous purple, spherical bubbles of varying sizes. The bubbles are clustered together, with some larger ones and many smaller ones. The background is dark, making the purple bubbles stand out. The overall appearance is that of a liquid or semi-liquid state with many small droplets or bubbles.

10

Conclusion

Conclusion

- ❖ Codex is a modern, fast, and developer-focused platform
- ❖ built for sharing programming knowledge.
- ❖ It supports scalable architecture, clean design,
- ❖ and offers an excellent environment for learning.

References

- ❖ HTML Specification (WHATWG Living Standard)Reference:WHATWG. HTML Living Standard.<https://html.spec.whatwg.org/>CSS Specifications (W3C)Reference:W3C. Cascading Style Sheets (CSS) — Current Standards & Working Drafts.<https://www.w3.org/Style/CSS/current-work>



THANK YOU!