

# LEARNTOCODE.AI

## PRESENTATION

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# THE PROBLEM

Many beginners struggle to find interactive, personalized coding practice and feedback.

Existing platforms may lack real-time feedback, adaptive difficulty, or engaging leaderboards.

Goal: Make coding education more interactive, adaptive, and motivating.

# THE SOLUTION

## LEARNTOCODE.AI

Our program provides an interactive coding learning platform.

Personalized question sets based on user level and progress.

The system provides real-time feedback and scoring.

Additionally, the use of a leaderboard to motivate and track progress.

01

Interactive

02

Personalized

03

Real-time feedback and scoring

# KEY FEATURES

## ADAPTIVE QUESTIONS

Unlimited questions tailored to user's skill level

## USER AUTHENTICATION

Signup and login with secure password hashing

## REAL-TIME LEADERBOARD

See how you rank among peers

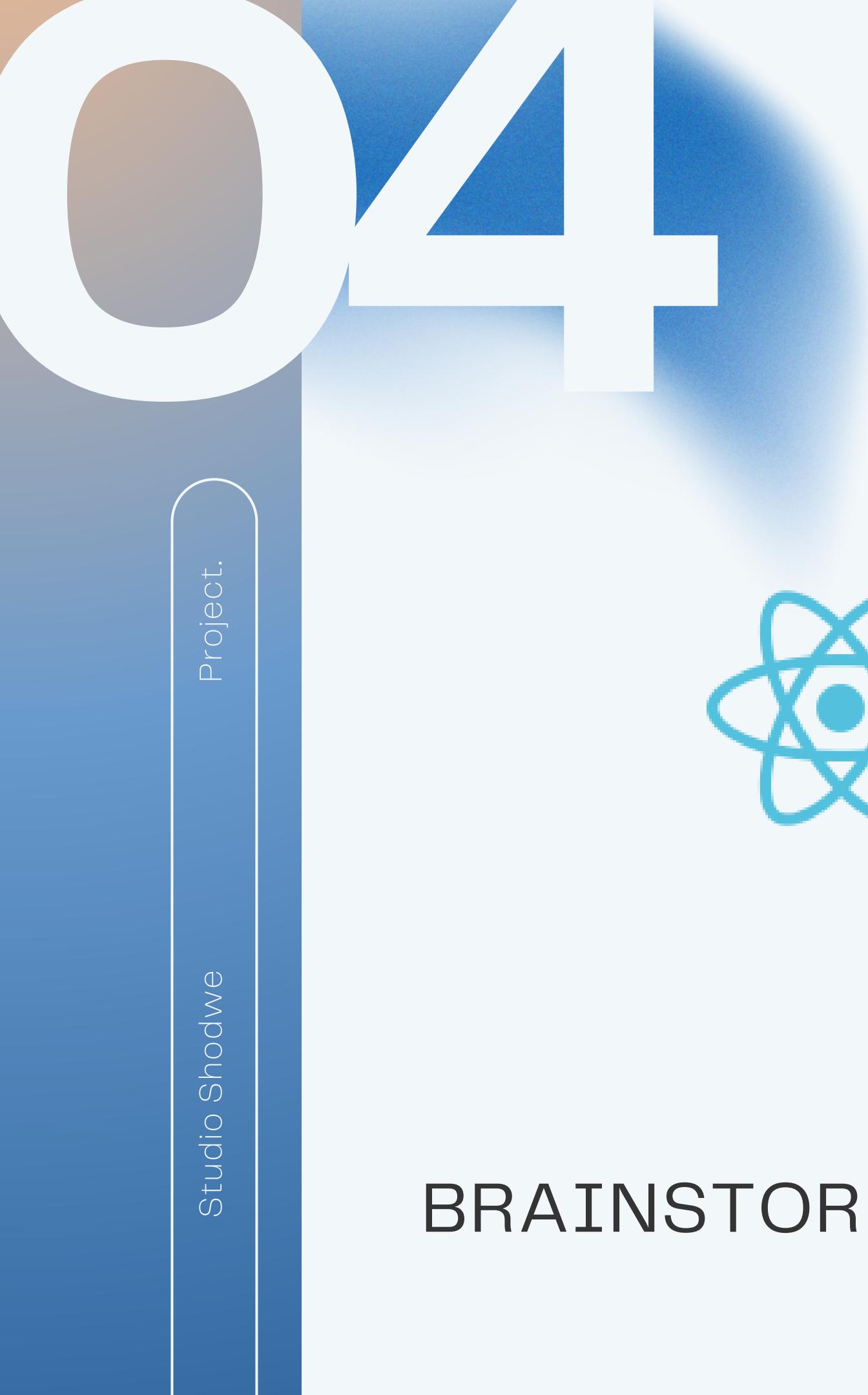
## PROFILE MANAGEMENT

Update and view user profile

## LOADING FEEDBACK

User-friendly loading screens during API calls

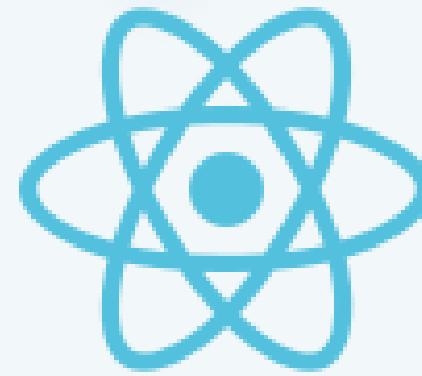
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Project.

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# THE IDEATION JOURNEY



BRAINSTORMING TO BRILLIANCE

# CHALLENGES & SOLUTIONS

- Challenge: Handling CORS and cross-origin requests
- Solution: Used CORS middleware in Express.
- Challenge: Ensuring secure authentication
- Solution: Used bcrypt for password hashing.
- Challenge: Keeping UI responsive during API calls
- Solution: Added loading screens and spinners.

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Project.

05

- Add more languages and question types
- Gamification (badges, streaks)
- Social features (friends, challenges)

## FUTURE WORK

FUTURE PLANS AND ASPIRATIONS



**THANK YOU**