INTRAVIEWER

PROJECT ID : BIT19-23

INTRAVIEWER

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INTRODUCTION

- INTRAVIEWER is an AI-enabled interview preparation website that helps users prepare for job interviews.
- The platform will use advanced AI algorithms to analyze interview responses and provide real-time feedback on sentiment analysis of voice and facial emotion detection to help candidates present themselves confidently and professionally during interviews.

PROBLEM STATEMENT

In the context of AI-enabled interview preparation websites, we are addressing the challenges faced by job seekers and interview candidates.

INTRAVIEWER play a crucial role in the job selection process, and candidates need to be well-prepared to showcase their skills and abilities effectively.

Many job seekers struggle with interview preparation, including lack of confidence, due to nervousness and anxiety, and difficulty in simulating real interview scenarios.

THE NEED FOR AI-ENABLED SOLUTIONS

- Traditional interview preparation methods may not provide personalized guidance and feedback to help candidates improve their performance.

- Our AI-enabled interview preparation website aims to bridge the gap by leveraging advanced technologies to provide comprehensive and tailored support to job seekers.

SOLUTION OVERVIEW

Welcome to our AI-Enabled Interview Preparation Website!

Our Solution

- Comprehensive Interview Question Bank
- Mock Interviews with AI-Powered Feedback
- Performance Analytics and Insights

Our AI-Enabled Interview Preparation Website is your comprehensive and personalized platform to ace your interviews. Gain the confidence, and skills necessary to impress recruiters and secure your dream job.

PROJECT ARCHITECTURE

1. Front-End

- Our website's front-end is built using modern web technologies such as HTML, CSS, and JavaScript.
- We utilize popular front-end frameworks like Bootstrap for creating interactive user interfaces.
- The front-end communicates with the back-end through View to fetch data from database and perform various actions.

2. Back-End

- The back-end of our project serves as the backbone of the entire system.We utilize popular front-end frameworks like Bootstrap for creating interactive user interfaces.
- We use a scalable and robust back-end framework such as Django to handle server-side operations.
- The back-end manages user authentication, database interactions, and business logic implementation.

PROJECT ARCHITECTURE

3. Artificial Intelligence

- DeepFace model to Detect facial emotion detection on recorded video.
- Speech_Recongnization for sentiment on the voice.

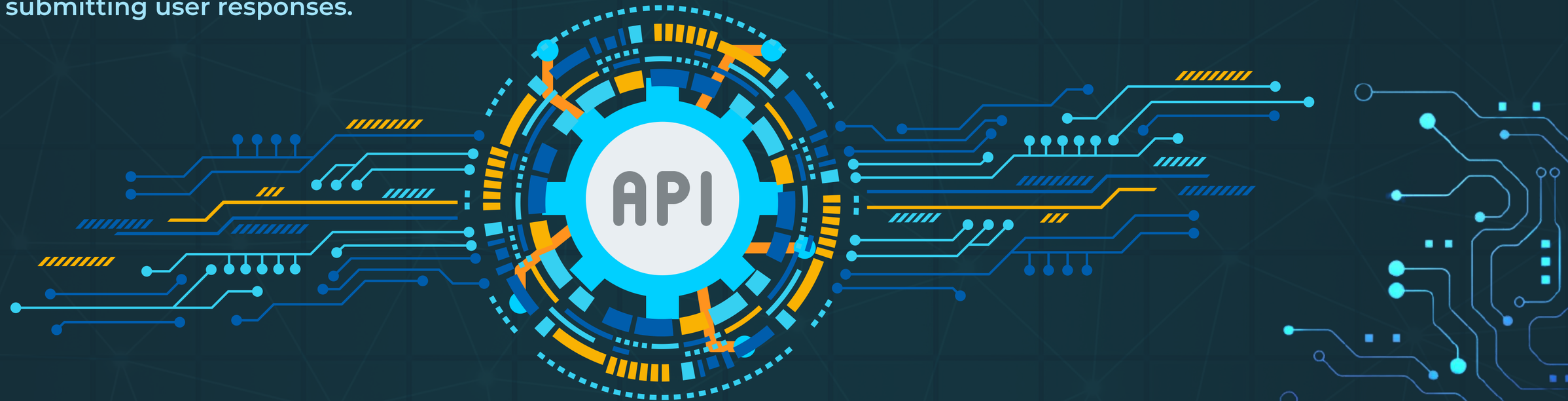
4. Database

- To store user data, interview questions, and other relevant information, we utilize a database management system.
- We use default SQLite.

PROJECT ARCHITECTURE

5. API Layers

- Our project incorporates an API (Application Programming Interface) layer to facilitate communication between the front-end and back-end.
- The API layer exposes endpoints that allow the front-end to send requests and receive responses from the back-end.
- These APIs handle various functionalities such as user registration, login, fetching interview questions, and submitting user responses.



TECHNOLOGIES USED

PYTHON

DJANGO

ML MODEL

DATABASE

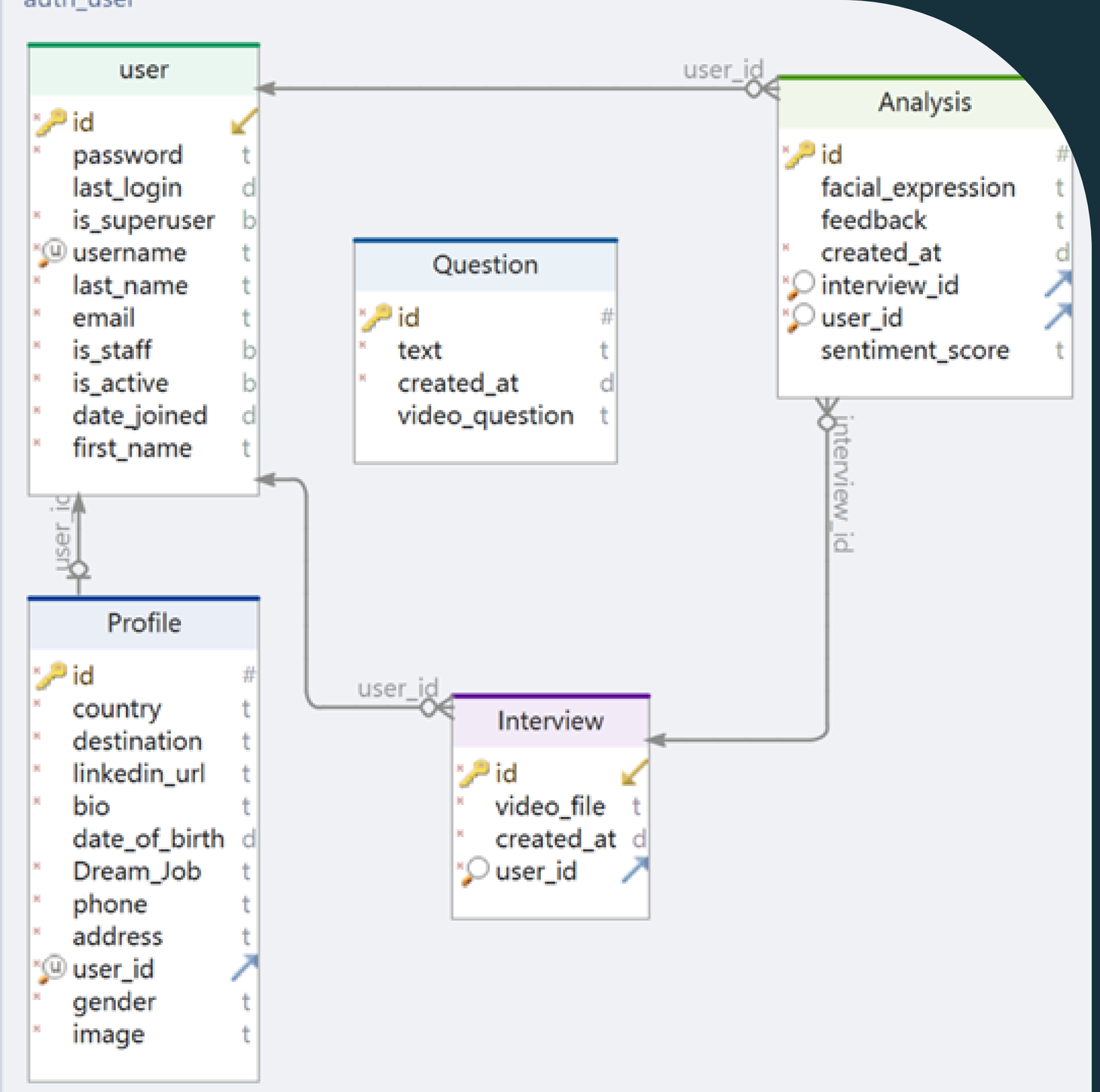
KEY FEATURE →

- Interview Question Repository
- Record Video with audio
- Mock Interviews with AI Evaluation
- Analytics of your Interview

DATA MODEL

- USER
- QUESTIONS
- INTERVIEW
- ANALYSIS
- FEEDBACK

DOMAIN MODEL

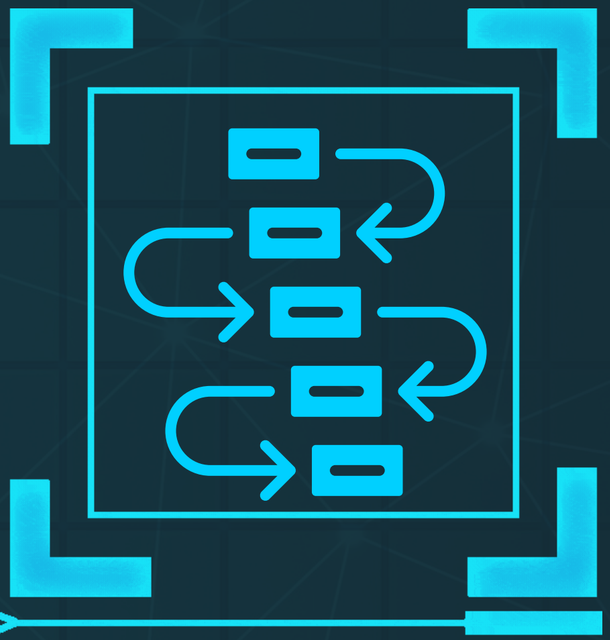


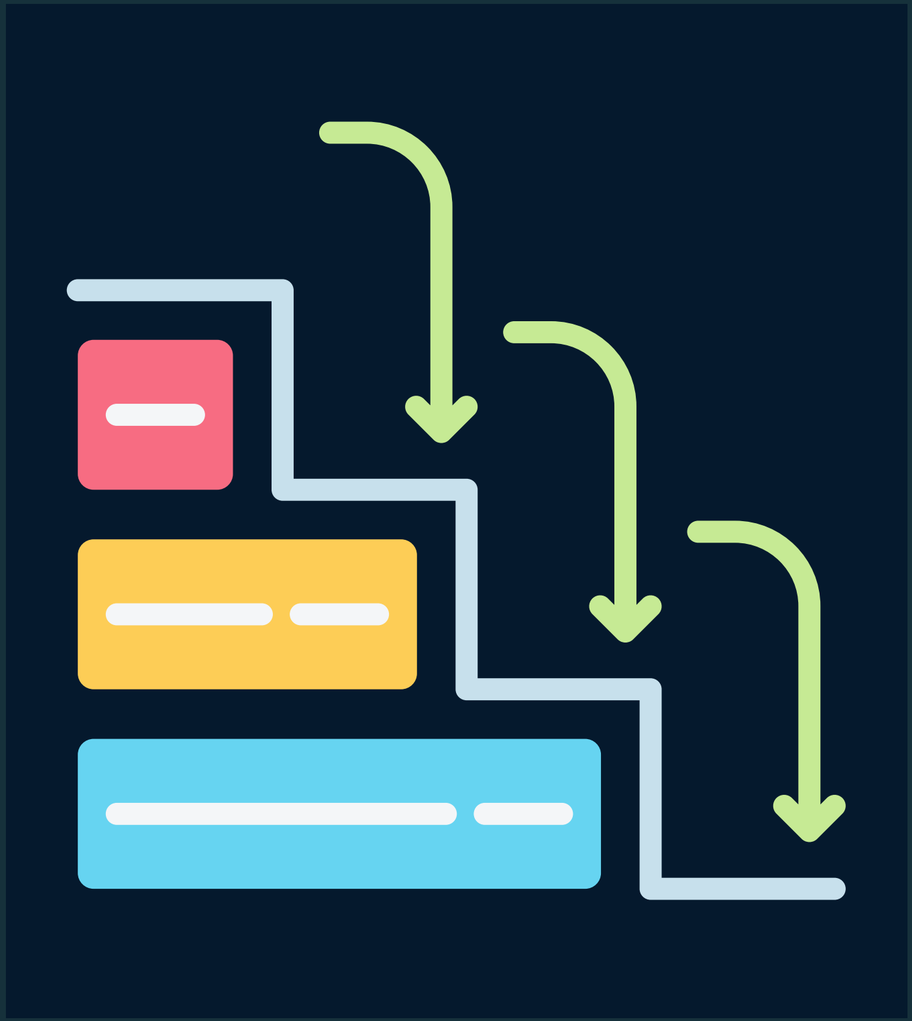
SECURITY MEASURES

- USER AUTHENTICATION
- DATA ENCRYPTION
- SECURE STORAGE

PROJECT MANAGEMENT

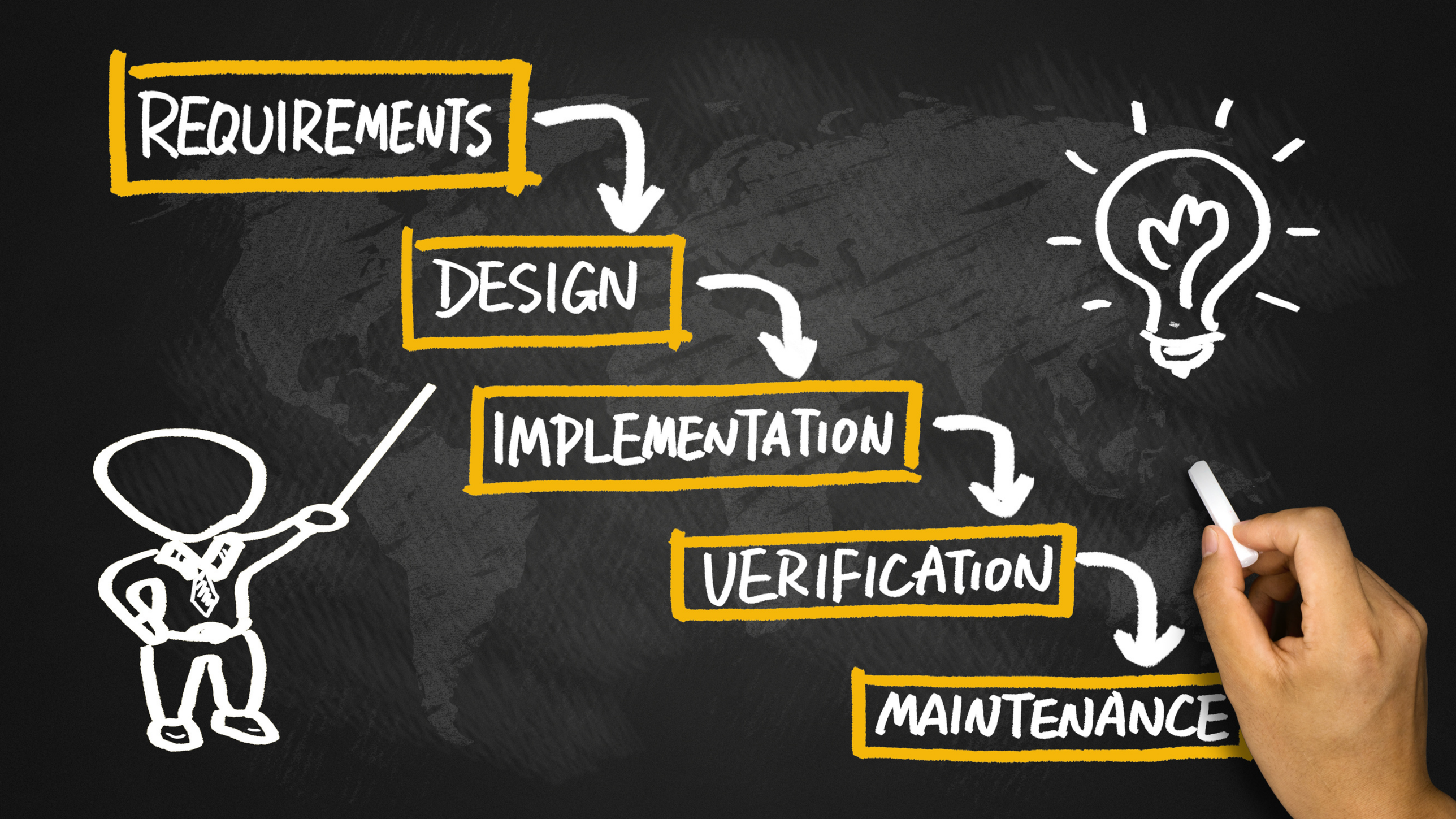
WATERFALL MODEL





KEY ASPECTS OF WATERFALL MODEL:

- REQUIREMENT GATHERING
- SYSTEM DESIGN
- IMPLEMENTATION
- TESTING


REQUIREMENTS
DESIGN
IMPLEMENTATION
VERIFICATION
MAINTENANCE

CHALLENGES FACED

1

Finding lightweight ML model

2

User Engagement

3

Recordge audio with video file during interview

PROJECT IMPACT

1

ENHANCED LEARNING EXPERIENCE

2

IMPROVED INTERVIEW PERFORMANCE

PROJECT TIMELINE

PROJECT INITIATION

- Project planning and research
- Defining project objectives and scope
- Gathering requirements from stakeholders
- Assembling the project team

DESIGN AND DEVELOPMENT

- Creating wireframes and prototypes
- Designing the user interface and user experience
- Developing the core functionality and features
- Implementing AI algorithms and models

TESTING

- Conducting extensive bug fixing
- Collecting user feedback and making improvements
- Optimizing performance and scalability

MAINTINANCE

- Bug Fixes and Issue Resolution
- Security Updates
- User Support and Feedback
- Continuous Improvement

MEMBER ROLES

USMAN JAVAID

Group Leader

UMAIR WAHEED

Django Developer

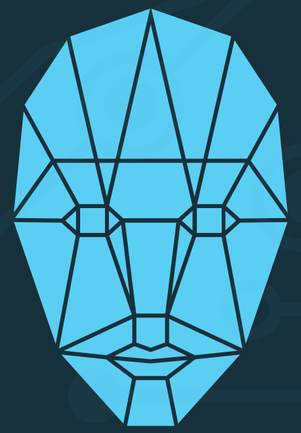
HAMZA SHAHZAD

DBA

MBJ

Front-end Developer

DEEPFACE & SENTIMENT ANALYSIS



- DeepFace is a facial recognition model developed by Facebook's AI Research team.
- It utilizes deep learning techniques to analyze and recognize human faces with high accuracy.
- Sentiment analysis using Speach_Recongnization pakage: Candidates gain a deeper understanding of their own emotions and how they may influence interview performance.

FUTURE GOALS

- Continuous Improvement of AI Algorithms
- Expanded Interview Question Database
- Advanced Interview Practice Features
- Customized Interview Preparation Paths
- Collaborative Learning and Community
- Integration with Job Search Platforms
- Mobile Application
- Continuous User Feedback and Improvement

ACKNOWLEDGMENTS

WE WOULD LIKE TO EXPRESS OUR SINCERE APPRECIATION TO THE FOLLOWING INDIVIDUALS AND ORGANIZATIONS FOR THEIR INVALUABLE CONTRIBUTIONS TO THE DEVELOPMENT OF OUR AI-ENABLED INTERVIEW PREPARATION WEBSITE:

- First of all i would like to thanks Allah almighty to give me chance to express myself in this occasion.
- Our dedicated team members for their hard work, expertise, and collaboration.
- Specially Mam Nadia for their guidance, advice, and mentorship throughout the project.

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- Chen, W., & Wang, H. (2020). AI-powered Interview Practice Platform: A Case Study. IEEE International Conference on Artificial Intelligence Applications, 78-85.
- **ChatGPT**

CONCLUSION

In conclusion, the AI-enabled interview preparation website represents a significant advancement in the field of job interview training and preparation. By harnessing the power of artificial intelligence, this platform offers job seekers a comprehensive and innovative solution to enhance their interview skills and increase their chances of success.

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