StegaSafe

SECURING DATA WITH SEAMLESS STEGANOGRAPHY.

ABSTRACT

STEGASAFE UTILIZES LSB STEGANOGRAPHY TO SECURELY HIDE DATA WITHIN PNG AND JPG IMAGES, ENSURING DATA PRIVACY WITH MINIMAL IMPACT ON IMAGE QUALITY.

PROBLEM STATEMENT

AS CYBER THREATS INCREASE, TRADITIONAL ENCRYPTION METHODS ARE BECOMING VULNERABLE. STEGASAFE USES STEGANOGRAPHY TO SECURELY HIDE DATA WITHIN IMAGES, OFFERING ENHANCED PROTECTION.

FEATURES

- ENCRYPTION: LSB
- CAPACITY: LARGE DATA STORAGE
- FORMAT: PNG, JPEG, BMP
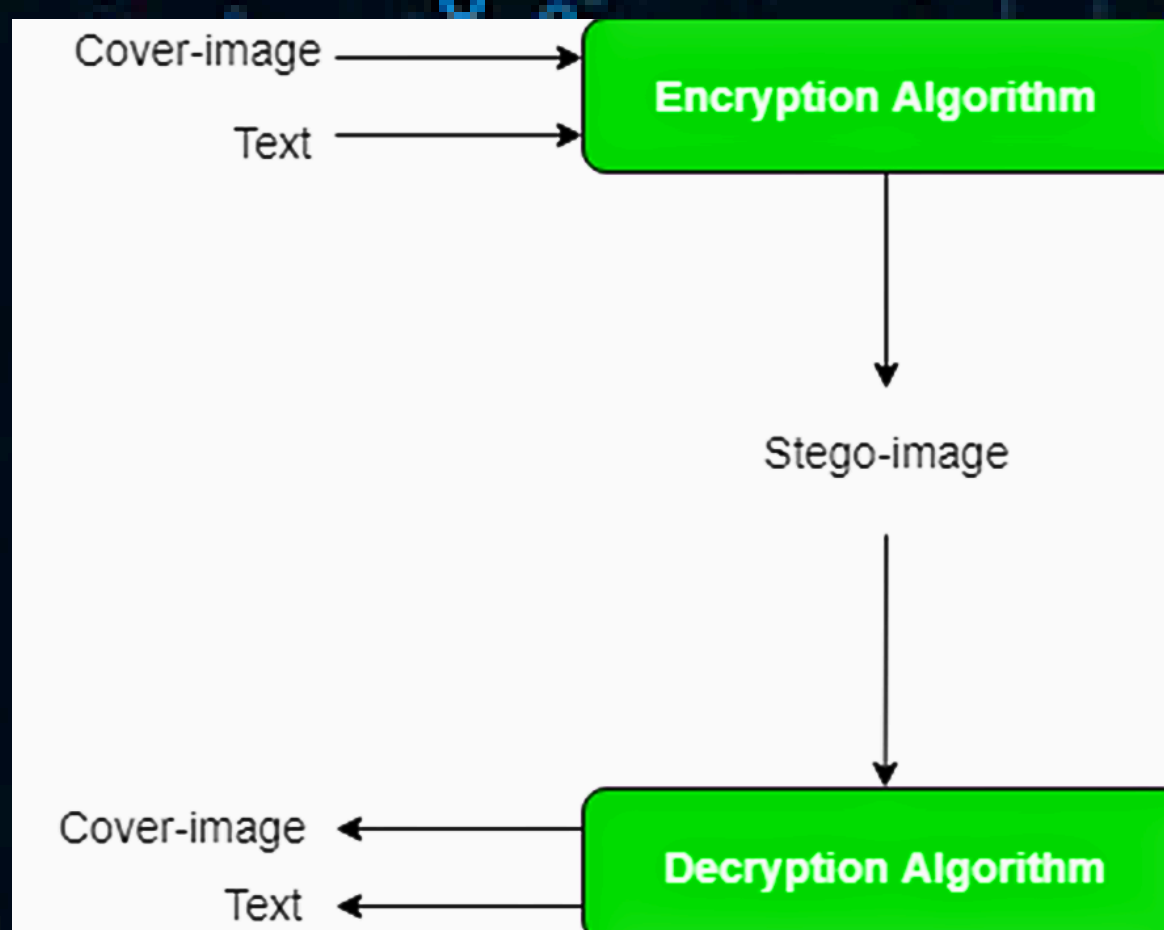- EASE OF USE: SIMPLE USER INTERFACE

CONTACT

1. AADITYA PANWAR
2. ANUSHA NAGAR
3. ANUSHKA PATEL

ACROPOLIS Enlightening Wisdom

METHODOLOGY

STEGASAFE USES LSB (LEAST SIGNIFICANT BIT) STEGANOGRAPHY TO ENCODE AND DECODE HIDDEN MESSAGES IN IMAGE FILES, ENSURING BOTH SECURITY AND EFFICIENCY.

Cover-image → **Encryption Algorithm**
Text →

↓

Stego-image
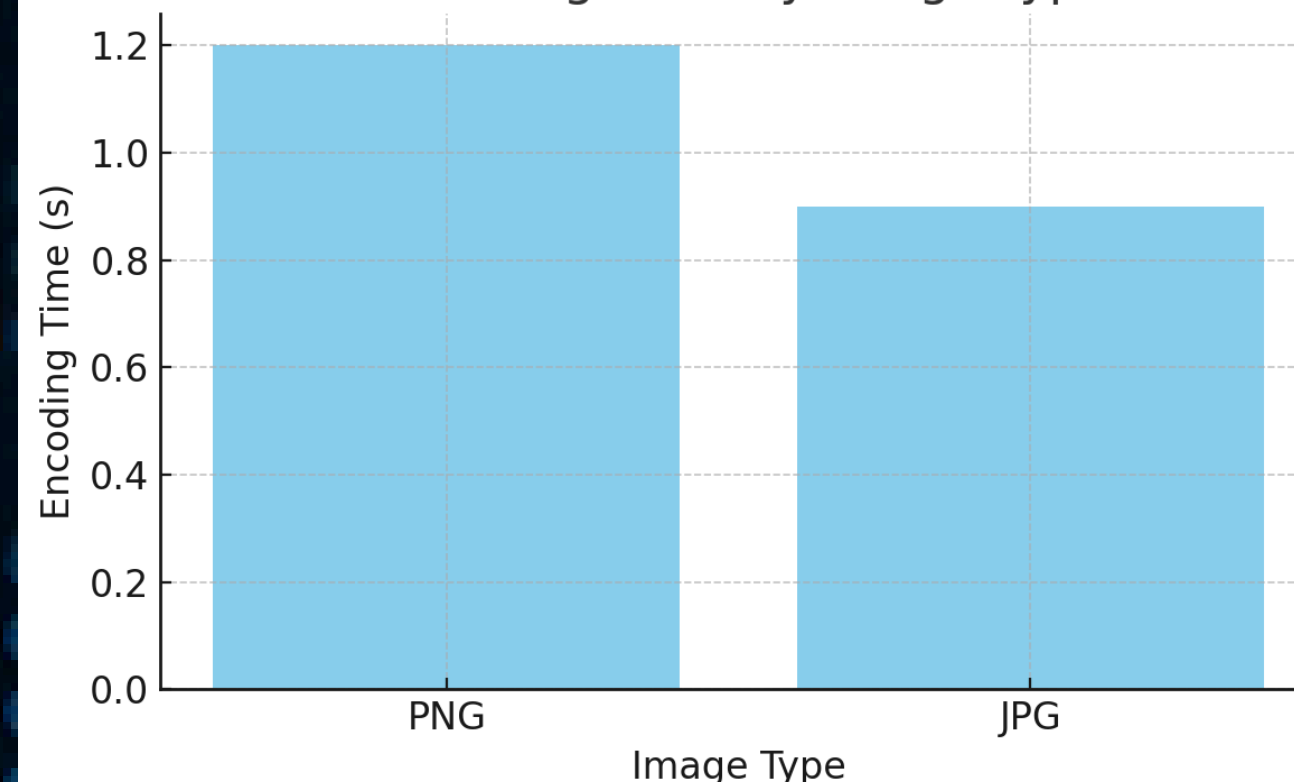
↓

Cover-image ← **Decryption Algorithm**
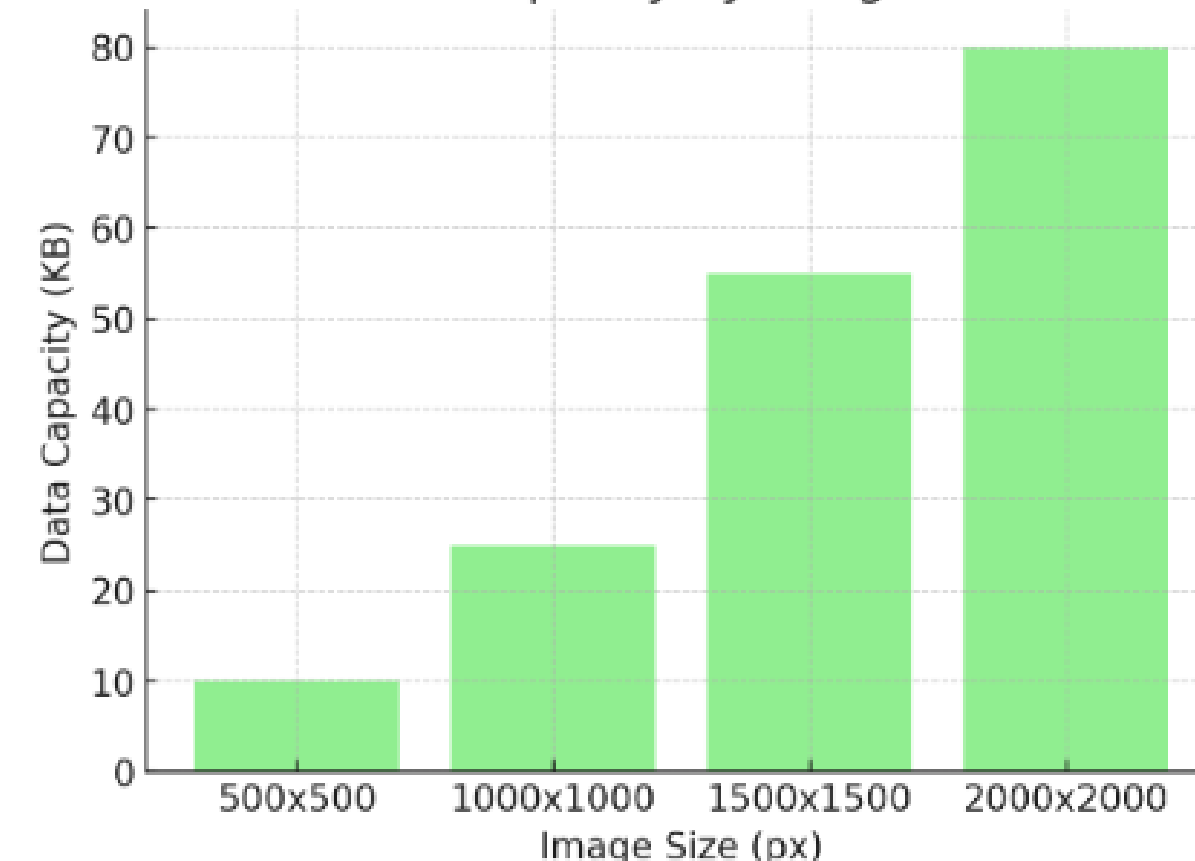Text ←

CONCLUSION & FUTURE SCOPE

STEGASAFE OFFERS A ROBUST AND USER-FRIENDLY SOLUTION FOR SECURE DATA HIDING. FUTURE UPDATES MAY INCLUDE ADVANCED ENCRYPTION AND MULTI-FORMAT SUPPORT.

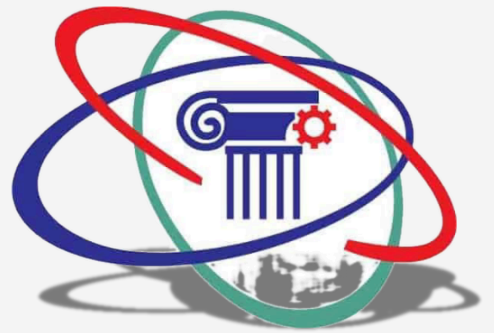## RESULTS

Encoding Time by Image Type (PNG, JPG)

Data Capacity by Image Size (500x500, 1000x1000, 1500x1500, 2000x2000)
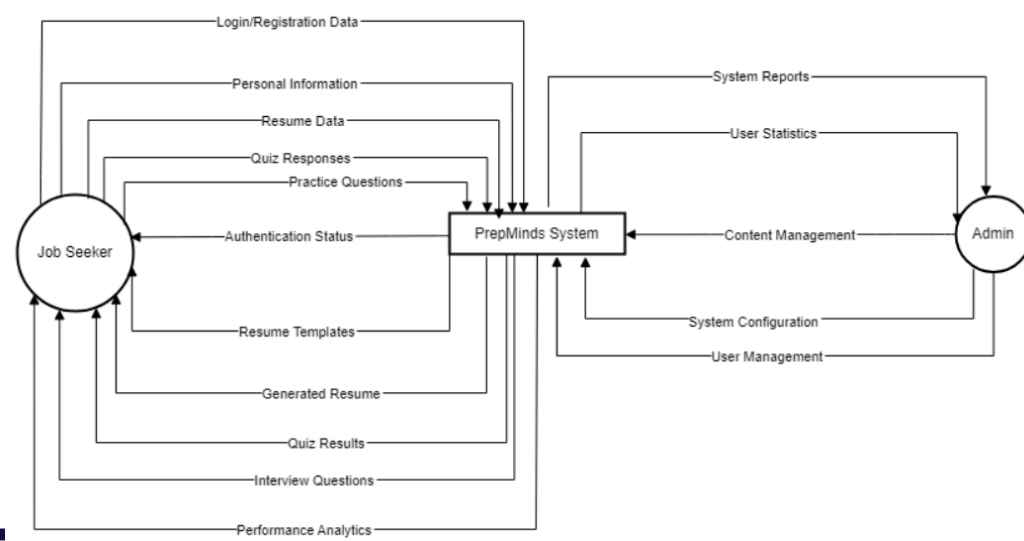
PREPMINDS
StepUp, Stand Out, Get Hired

MEMBERS

Aryan thapak
Anupam Kumar Raushan
Adarsh Trivedi
Aman Mehra
Anoushka Vyas

DATA FLOW DIAGRAM
LEVEL-0

DATA FLOW DIAGRAM
LEVEL- 1
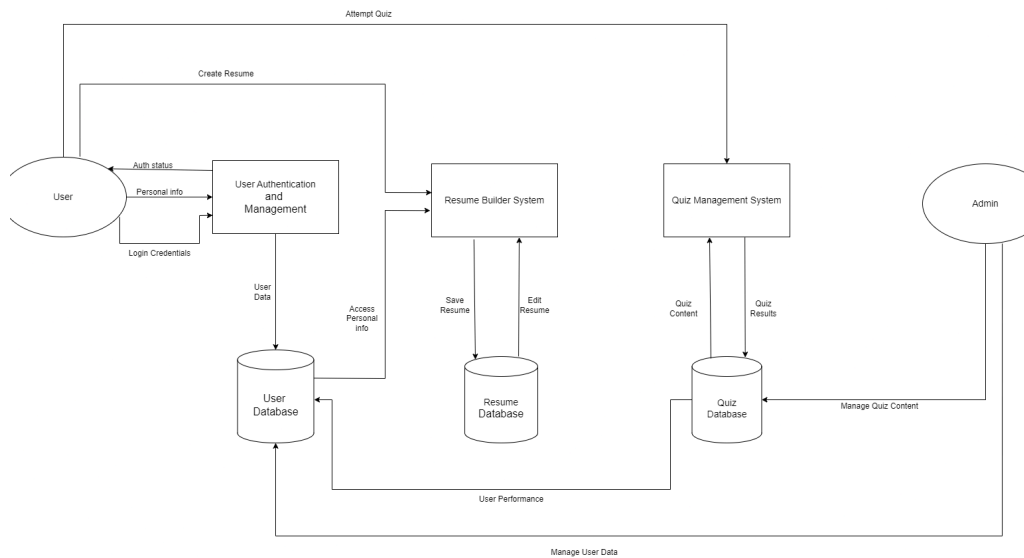
DATA FLOW DIAGRAM
LEVEL-2
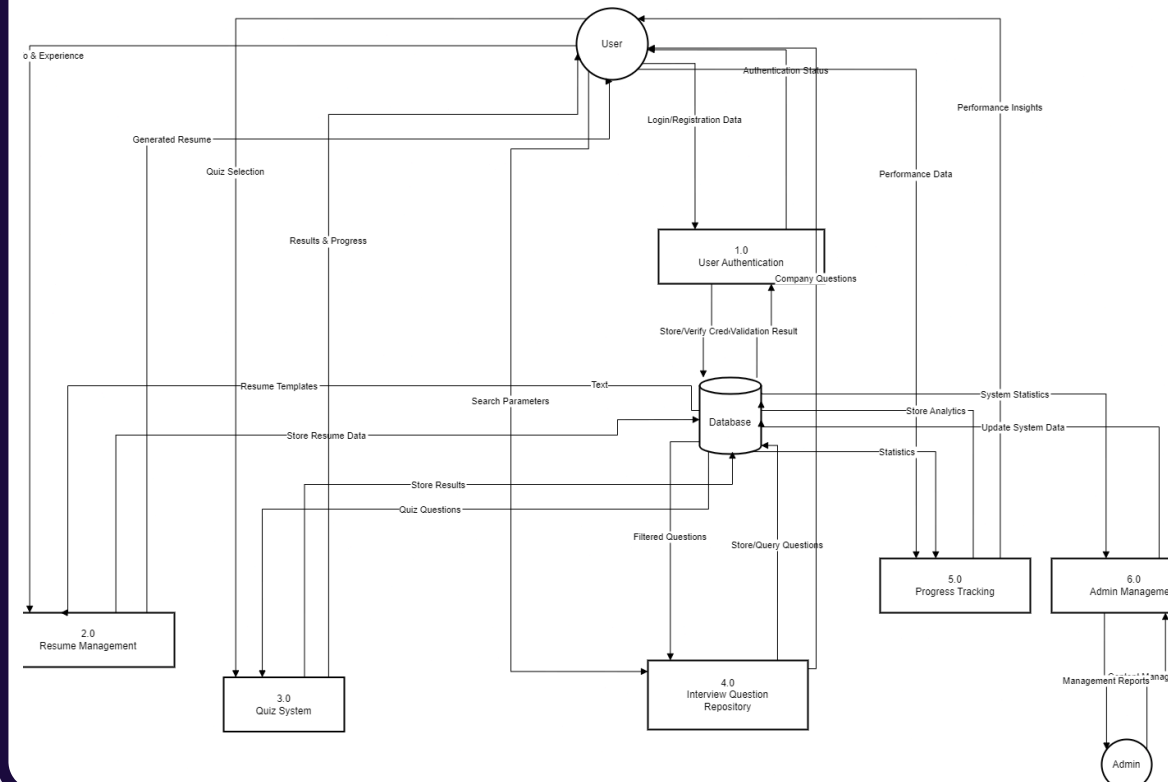
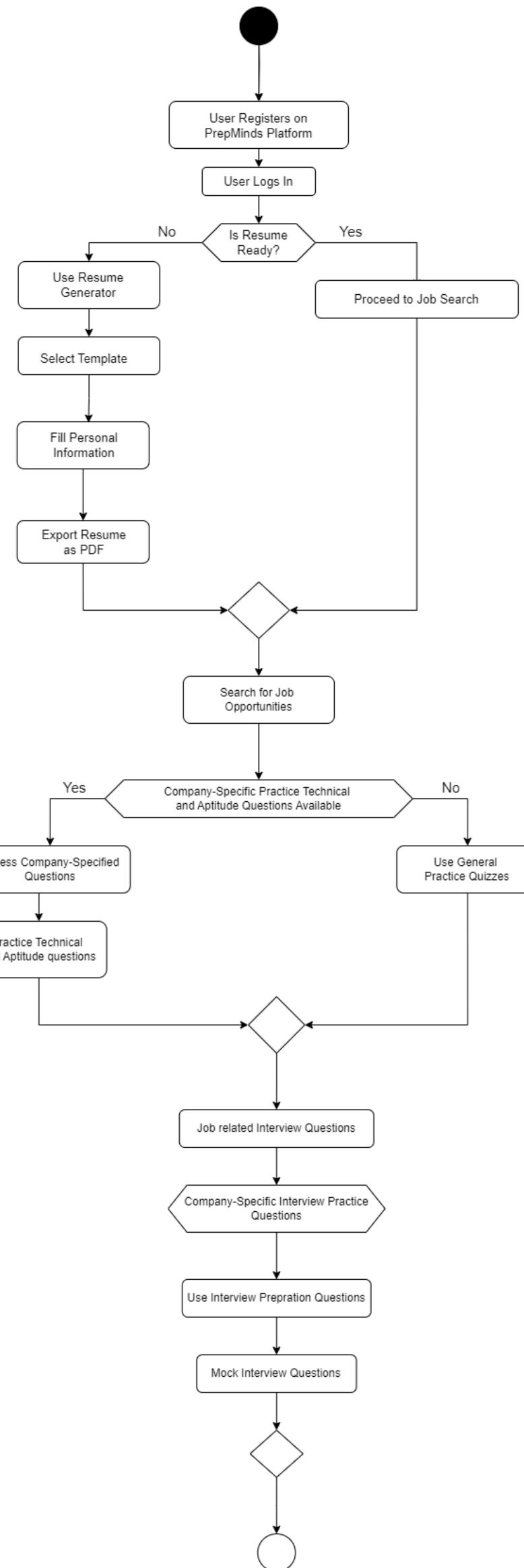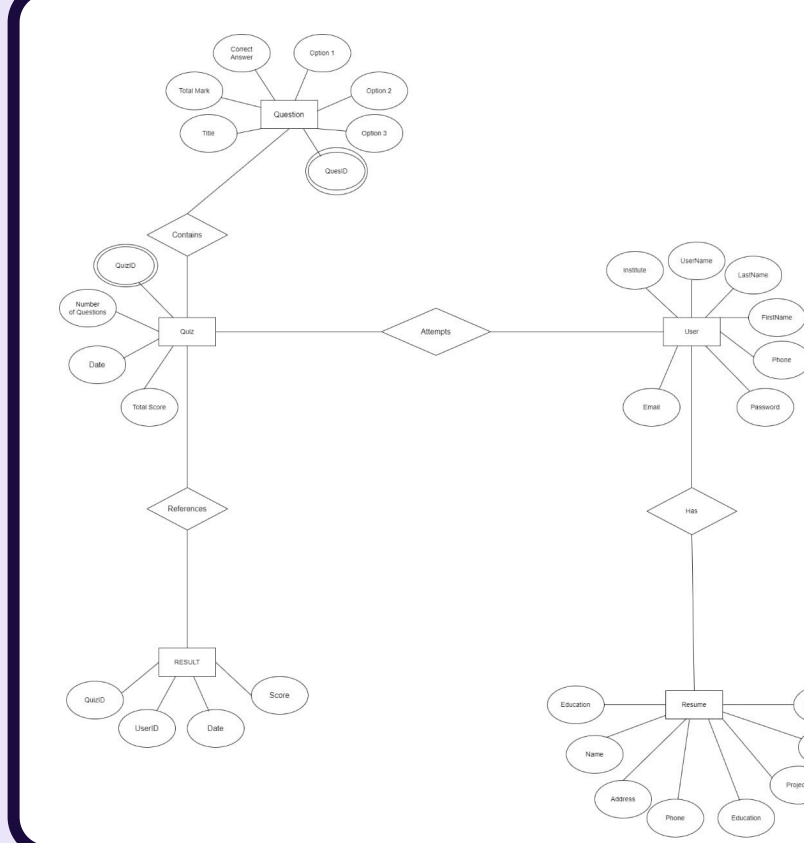## ACTIVITY DIAGRAM

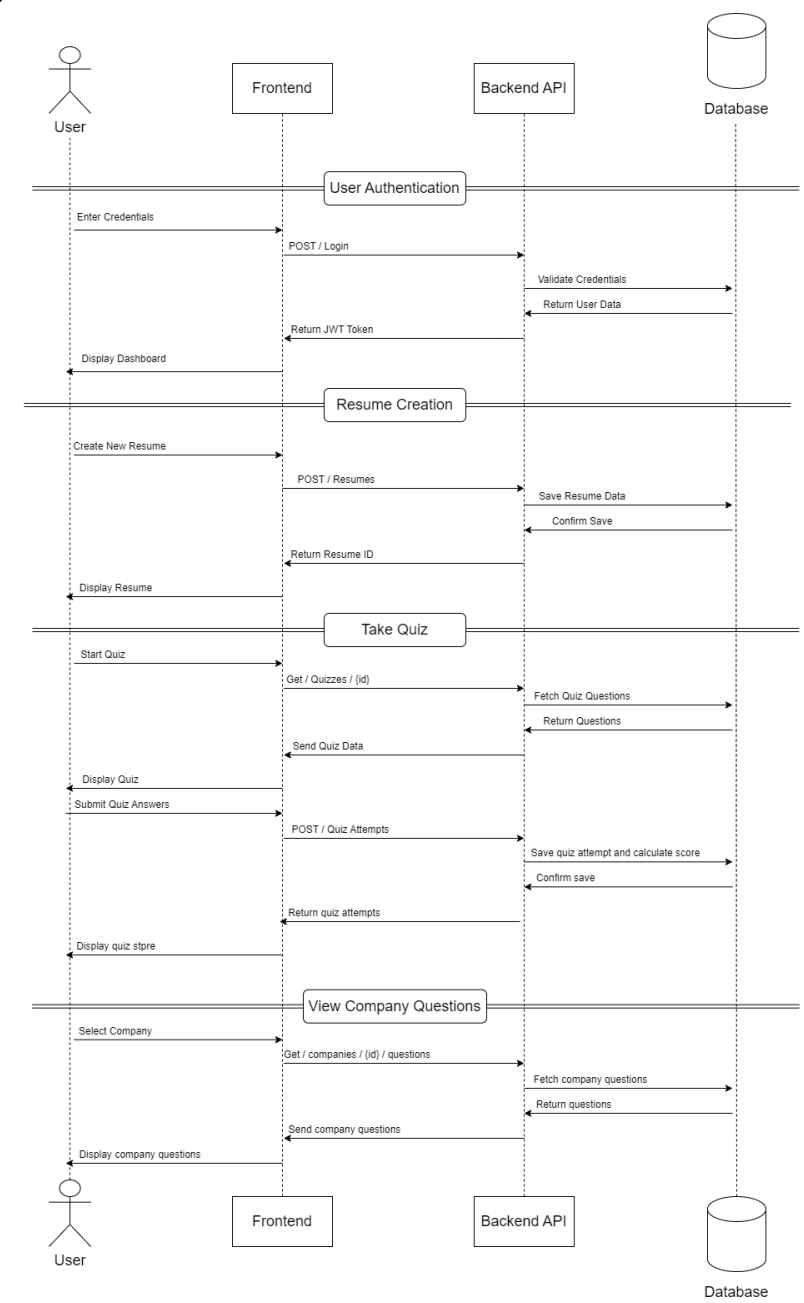## ENTITY RELATIONSHIP DIAGRAM

SEQUENCE DIAGRAM

USE CASE DIAGRAM