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# AIInterviewer

AI Interview Simulator

## User Manual

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## 1. Introduction

The AInterviewer is an Android-based interactive system designed to help students prepare for internship and job interviews through realistic, AI-driven conversation. In recent years, as recruitment processes increasingly emphasize behavioral and technical interviews, many students experience anxiety or lack structured opportunities to practice. This system was developed to address that need by offering an accessible, automated, and personalized mock interview environment. By combining multi-threaded processing, natural language interaction, and automated evaluation, the AI Interview Simulator provides a scalable method for supporting students in their interview preparation. The system aims to help users develop greater confidence, improve communication skills, and better understand employer expectations in a modern recruitment context.

## 2. System Overview

The system consists of three modules:

### - Initial Setup & Input Module

- ✧ Upload résumé file (PDF, DOCX).
- ✧ Enter job description.
- ✧ Select interview language (Chinese / English).
- ✧ Validate input before interview starts.

### - AI Chat Interface Module

- ✧ Real-time conversational interview.
- ✧ AI asks questions automatically through Coze API.
- ✧ User answers through text input.
- ✧ Keyboard-aware layout adjustment for optimal UX.
- ✧ “End Interview & Generate Report” button.

### - Report Generation Module

- ✧ Collects full chat history.
- ✧ Sends the transcript to *Coze* for evaluation & feedback.
- ✧ Generates a TXT report file stored locally.
- ✧ Displays a notification allowing the user to open the file immediately.

### 3. System Requirements

Hardware: Android phone or emulator with 3GB RAM.

Software: Android 8+, Android Studio, Coze API Key, Internet connection.

### 4. Installation Guide

1. Download the project ZIP.
2. Open in Android Studio.
3. Insert your Coze PAT.
4. Connect device / start emulator.
5. Run the application.

Or simply use the apk file generated in Android Studio.

### 5. Using the Application

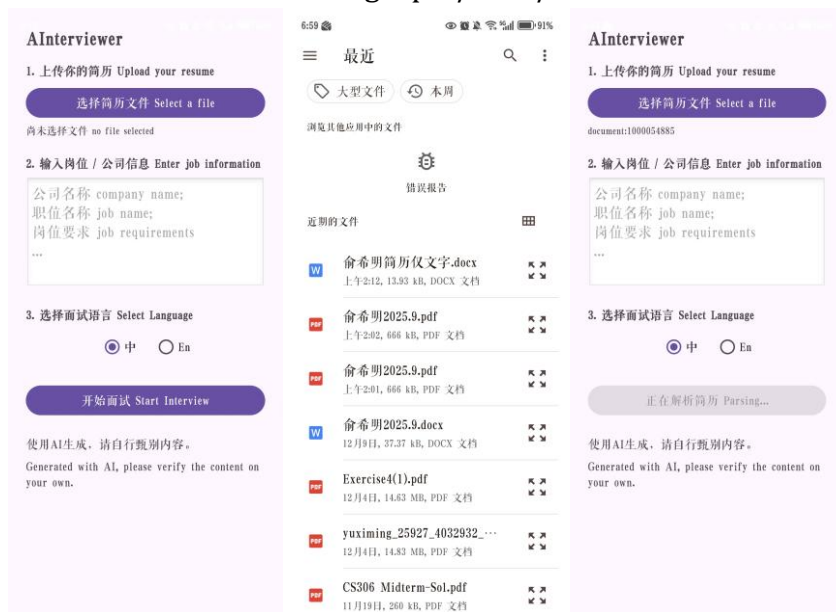
The application allows users to upload their resume, specify job requirements, and participate in a real-time interview conducted by an AI interviewer. The AI generates questions dynamically based on the user's background and the target position, enabling a practice experience that closely resembles real-world interview scenarios. Throughout the conversation, the system captures the dialogue and, upon completion, automatically generates an interview report summarizing performance and providing improvement suggestions.

#### **Details**

1. Open the AInterviewer.



2. Upload a resume. Permitted file range: pdf/docx/txt.



3. Enter the job description: Company name/Position name/Requirements. More detailed information will be better. The Coze AI will also search for more information online.

### AIInterviewer

1. 上传你的简历 Upload your resume

选择简历文件 Select a file

已解析简历 Done. 长度 length: 2925

2. 输入岗位 / 公司信息 Enter job information

公司名称 company name;  
职位名称 job name;  
岗位要求 job requirements  
...

3. 选择面试语言 Select Language

☒ 中 ☐ En

开始面试 Start Interview

使用AI生成, 请自行甄别内容。  
Generated with AI, please verify the content on your own.

### AIInterviewer

1. 上传你的简历 Upload your resume

选择简历文件 Select a file

已解析简历 Done. 长度 length: 2925

2. 输入岗位 / 公司信息 Enter job information

(2025年) 大致包括以下核心内容:  
1. |  
模块设计与优化  
独立完成玩法、关卡、系统、数值

3. 选择面试语言 Select Language

☒ 中 ☐ En

开始面试 Start Interview

使用AI生成, 请自行甄别内容。  
Generated with AI, please verify the content on your own.

- Select a language as the interview language.
- Check information and start interviews.
- The AIInterviewer will keep asking questions automatically. Answer to the questions in the way how one chat with other ChatGPT-like tools.

面试官准备提问中...

思考中...

输入回答 Enter answers...

发送

结束面试并生成报告 End & Report

请回答

请先做一个简单的自我介绍, 重点说一下与游戏策划相关的经历。

大家好, 我叫俞希明, 昆山杜克 26 届计算机+跨学科设计双学位。

过去半年, 我用 Unity+扣子把 AI 语音 NPC 做进 3D 叙事解谜游戏, 验证数字永生主题; 7 月联合创立 AI 教育公司, 交付历史人物对话 Agent, 已上线试运营。

会 Python、C#, Unity、Blender、Axure 都能打, 明日方舟、原神、星穹铁道满成就, 氪金与平衡敏感。

腾讯游戏策划实习是我的“主线任务”, 盼把 AI+玩法经验带进团队, 一起写出让玩家尖叫的下一章。谢谢!

输入回答 Enter answers...

发送

结束面试并生成报告 End & Report

请回答

token消耗情况、生成时间的具体变化等, 来支撑选择8轮这个结果呢?

有的, cost是按资源点计算 token。我们发现6到七轮后资源点托就会开始上升, 但如果就在第六轮重新开启的话好像会有一点微妙的上下文脱离感。

刚刚提到在第六轮重新开启会有上下文脱离感, 那有没有尝试过一些方法去缓解这种脱离感呢, 比如在总结内容的时候做一些特别的处理?

所以我们选择了增加两轮, 八轮就是一个不会很消耗资源点, 但是也不会脱离的选择。

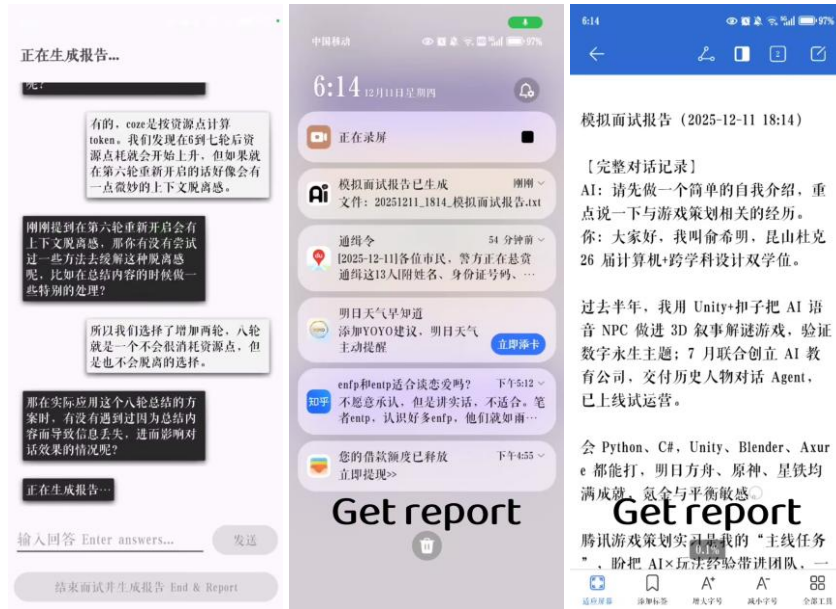
那在实际应用这个八轮总结的方案时, 有没有遇到过因为总结内容而导致信息丢失, 进而影响对话效果的情况呢?

输入回答 Enter answers...

发送

结束面试并生成报告 End & Report

- When want to end up the interview, click the End button at the bottom of the screen. The app will automatically start to generate a feedback txt file, which will record the complete conversation and a structured feedback given by the AI interviewer.
- When the file is prepared, a notification will appear in the message bar, click to view the report and save it.



## 6. Multithreading Design

The application assigns tasks across threads to ensure responsiveness.

Component	Thread Used	Reason
File reading & text extraction (PDF/DOCX)	Background Thread (Coroutine / Executor)	Prevents UI blocking during file parsing
Coze API communication	OkHttp background threads	Network operations must not block main UI thread
Chat UI updates	Main thread (Handler / runOnUiThread)	Ensures safe access to UI components
Keyboard layout recalculation	Main thread	Maintains smooth UI rendering

## 7. Error Handling

The application handles invalid file formats, network issues, parsing errors, and API failures gracefully. The system includes several defensive mechanisms:

- ◆ Invalid resume format → Non-blocking error message

- ◆ Empty job description → Button disabled
- ◆ Missing network → API callback returns “Network Error”
- ◆ Empty AI output → Fallback message displayed
- ◆ JSON parsing failures → Logged + shown in chat bubble
- ◆ All failures are handled gracefully, ensuring the app never crashes unexpectedly.

## 8. References

### Guides and Tools

Coze AI API Documentation. <https://www.coze.cn/open/docs/guides>

Android Developers Documentation. <https://developer.android.com>

OkHttp Networking Library. <https://square.github.io/okhttp>

Apache PDFBox Library. <https://pdfbox.apache.org>

Apache POI Library for DOCX. <https://poi.apache.org>

## 9. Conclusion

This AI Interview Simulator provides an interactive and efficient solution for practicing job interviews. Through the use of asynchronous architecture, Coze AI integration, and automatic report generation, the system delivers a smooth and realistic interview experience. The multi-threaded design ensures stable performance, while the report function offers actionable feedback for career improvement.

This manual should provide enough detail for end-users, reviewers, and maintainers to operate and evaluate the system effectively.