



## **Human Computer Interaction**

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### **Submitted to:**

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### **Semester Project**

### **Report**

## **Introduction**

The **VR-Based Job Interview Simulator** is a cutting-edge virtual reality application aimed at helping users practice and improve their job interview skills in a realistic, immersive environment. The system uses AI-driven

feedback to analyze body language, speech, and eye contact, offering real-time performance insights. The purpose of this project was to develop an interactive, user-centered prototype in **Figma**, applying HCI principles, ergonomic design, and accessibility standards based on the system's Software Requirements Specification (SRS).

## Objectives

- Develop an interactive, **high-fidelity UI prototype in Figma** based on the SRS.
- Map functional requirements from the SRS to UI components.
- Apply **HCI design principles** for usability, accessibility, and inclusivity.
- Conduct **usability testing** to identify and address design issues.

## Tools Used

- **Figma** (mandatory) – For high-fidelity prototype.
- **Google Forms** (optional) – For usability surveys.
- **Notion/Docs** – For documentation and collaboration.

## Norman's Interaction Model Mapping

Goal	Task	Domain Knowledge Required
<b>Prepare for job interview</b>	Login, Select Scenario	Basic VR usage, login process
<b>Attend simulated interview</b>	Start VR Session, Receive Feedback	VR controls, question understanding
<b>Review feedback</b>	View Reports	Interpretation of scores, recommendations
<b>Track progress</b>	Dashboard	Understanding of charts, improvement tracking

## Gulf of Execution & Evaluation

Execution Gap	Evaluation Gap
<b>VR icons unclear (e.g., Start Interview)</b>	No clear confirmation when scenario is loaded

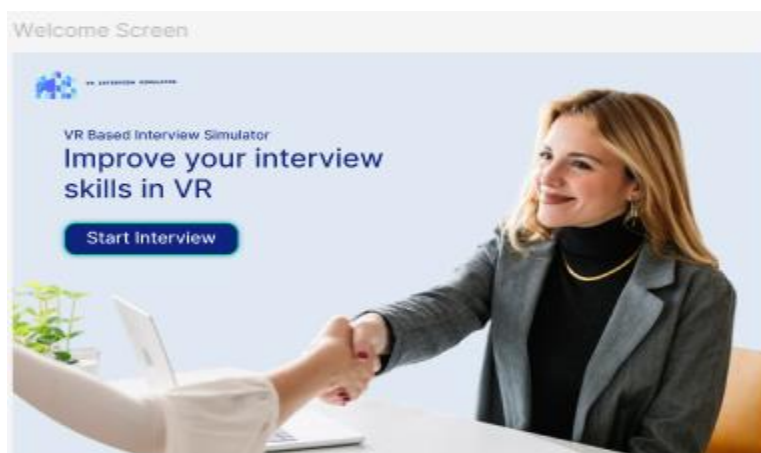
<b>Scenario selection lacks filtering</b>	Lack of visual feedback for gesture actions
<b>No session replay button in main screen</b>	Inconsistent color themes for different screens

## Recommendations for Improvement

Issue	Recommendation
<b>No feedback for task completion</b>	Add visual/audio confirmations
<b>Unclear icons</b>	Add labels & tooltips
<b>Limited color scheme</b>	Enhance color variety for industry-specific scenarios
<b>Lack of accessibility settings</b>	Add voice control toggle, text-to-speech support

## Interface Screens

### 2D Screens



## login

© 2020 ABC COMPANY

USERNAME

PASSWORD


[Forgot password?](#)

LOGIN

Does not have account? Click [Signup](#)



## signup



### Sign Up

Full Name

Email

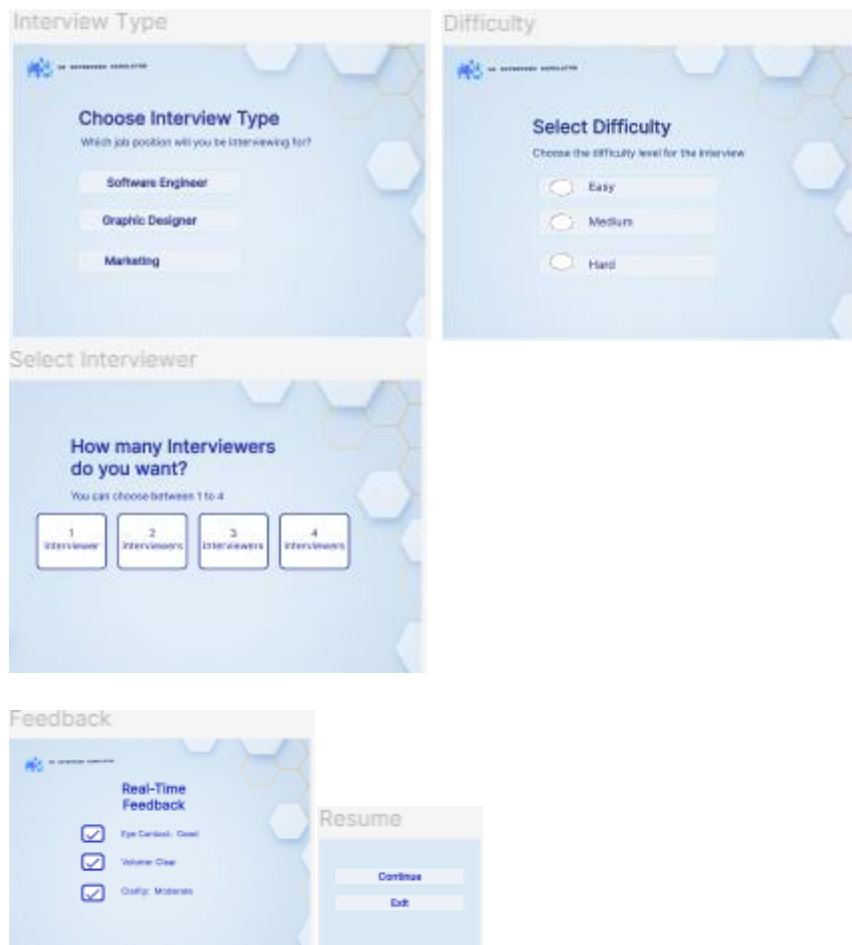
Username

Password

Repeat Password

☐ I agree to the [Terms of User](#)

SIGN UP



## **3D Screens**

### **1 interviewer**



**2 interviewers**



**3 interviewers**



## 4 interviewers



## **Conclusion**

The **VR-Based Job Interview Simulator** prototype successfully demonstrates key HCI principles in a practical application. With immersive environments, AI-driven feedback, and user-centered design, this project supports users in preparing for interviews confidently. Future iterations will focus on integrating real-time AI models, enhanced feedback systems, and expanded scenario libraries.