User Research Questionnaire

Basic Information		
What is your age group?		
☐ 18-24 —		
☐ 25-34 ☐ 35-44		
☐ 45-54		
☐ 55 or older		
What is your experience level with VR/XR technology?		
☐ No experience		
Limited experience (1-5 times)		
☐ Moderate experience (6-20 times)		
☐ Extensive experience (more than 20 times)		
Before participating in this experience, how familiar were you with the Great Fire of London?		
☐ Not familiar at all		
☐ Somewhat familiar		
☐ Fairly familiar☐ Expert level knowledge		
Line Expert level knowledge		

Questionnaire 1: Interactive Elements and Sense of Immersion

Previous Immersive Experience

- 1. Have you ever used VR or participated in a 360° interactive experience?
 - o If yes, which experience left the strongest impression on you and why?
 - If no, what are your expectations for an immersive historical experience like this?
- 2. Importance of Interactive Elements (Likert Scale Question)

 On a scale from 1 (Not Important at All) to 5 (Very Important), how important do you think interactive elements (e.g., picking up objects, triggering events) are in keeping you engaged in a VR historical experience?

3. Most Engaging Interactive Features

 In your experience, which interactive elements (e.g., picking up objects, triggering story events, NPC dialogue) were the most engaging or memorable? Why?

4. Factors That May Distract or Disrupt Immersion

• Were there any interactive elements that felt confusing or pulled you out of the immersive experience? If so, please describe.

5. Suggestions for Improvement

What aspects do you think could further enhance interactivity and immersion?
 (e.g., controls, visual feedback, story integration, etc.)

6. Learning and Memory Retention

 Do you feel that interactive elements helped you better understand or remember historical information about the Great Fire of London? Please share specific examples or thoughts.

7. Additional Comments

 Do you have any other feedback or suggestions regarding interactive elements or the immersive experience?

Questionnaire 2: The Impact of Transitioning from 360° Video to VR on Storytelling and Understanding

Background:

We aim to understand how transitioning from a 360° video to a fully immersive VR environment affects storytelling flow and learning comprehension. Please answer the following questions based on your experience.

Transition Smoothness (Likert Scale Question)

1. How would you rate the smoothness of the transition from 360° video to the VR environment?

- On a scale from 1 (very disjointed) to 5 (very seamless), please select a score and briefly explain your reasoning.
- 2. Did you experience any confusion or discomfort during the transition from the 360° video to the VR scene?
 - If so, what aspects contributed to it? (e.g., visual effects, controls, storyline connection, etc.)

3.	B. Did you notice any significant change in your sense of engagement or immersion after transitioning into VR?		
	Please describe your subjective experience.		
4.	How did this transition impact your understanding and memory of the Great Fire of London's storyline or historical events?		
	 Was the effect positive or negative? Please provide examples based on your experience. 		
5.	Do you think the 360° \to VR structure enhanced the overall storytelling experience, or did it feel disruptive or repetitive?		
	Please explain your reasoning.		
6.	If you could suggest improvements for the transition process, what would they be?		
	 For example, adding guidance prompts, transition animations, interactive transitions, etc. 		
7.	Do you have any additional thoughts or feedback regarding this experience?		
	We welcome any ideas or suggestions you'd like to share!		
Experience Feedback Questionnaire			
1.	Which interactive features did you use during the experience? (Select all that apply)		
	Picking up historical objectsTriggering character dialogues		
	 Moving between different scenes 		
	Using historical tools		
	 Participating in firefighting activities 		
_	Other (please specify): Discourse the same of the fall outline and the		
2.	Please rate the ease of use for the following aspects: (1 = Very Difficult, 5 = Very Easy)		
	 Navigating in the 360° environment: 		

0	Interacting with objects in VR:	
0	Understanding available interactive features:	
0	Following the historical narrative:	
0	Transitioning between 360° video and VR modes:	
	new knowledge did you gain about the Great Fire of London through this	
exper	ience?	
	did the transition between 360° video and VR affect your understanding of ical events?	
	strongly did you feel the following during the experience? (1 = Not at all, 5 or strongly)	
- very	Connection to the historical event:	
_	Empathy for the people of 1666:	
	Feeling immersed in historical London:	
	Sense of urgency during the fire scenes:	
0	Emotional impact of the destruction:	
○ What	emotions did this experience evoke in you?	
	emotions did this experience evoke in you.	
What	was the most engaging part of the experience for you? Why?	
What	aspects were the most challenging or confusing? Why?	
How c	How do you think this experience could be improved?	
-	ou experience any discomfort during the experience?	

- Mild discomfort
- Moderate discomfort
- Severe discomfort