

Understanding user's behaviour pattern during the whole online exhibitions visits

- 01 Research question & Aims
- **02** Experiment process

- 03 Data analysis (WIP)
- **04** Reflection

Research questions & Aims •

Background

Research question & Aims

What factors affect the user's immersion and engagement and their behaviour pattern during the whole online exhibitions.

Aim 1. To understand user's behaviour pattern during the whole online exhibitions visits.

Aim 2. To classify the factors affecting immersion and engagement of online exhibition visiting.

Aim 3. To contribute at designing online exhibition services by proposing several design considerations.

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Experiment process •

Methodology **Experiment Process**



Pilot Study

Pre-survey

Contextual Inquiry

Post-Interview (After observation)

Analysis

- When
 - 4/16 Thu 13:00 ~ 14:30 : Pilot Study
 - 4/17 Fri 14:00~ 15:30 : Real Study
- Where: Participant's suggest place: cafe

Reflections from pilot study

- The camera could make the participants feel discomfortable →so that the cameras should be as invisible as possible from the user's perspective
- Several observers asking at the same time, which confused the participant → so we set a moderator as representative
- The smartphone screen was not captured by the camera—so we required participant to record the smartphone screen.

Methodology

Experiment Process

Experiment

Pilot Study

Pre-survey

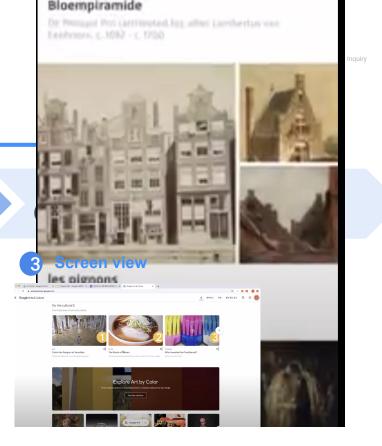
Contextual Inquiry

Facial expression view



2 Hand gesture view





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Data analysis.

Data analysis

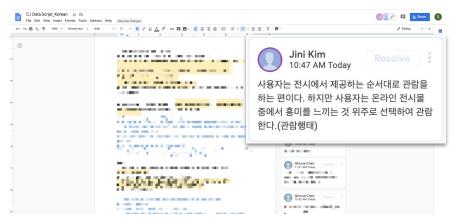
Process

Raw data

Recoding

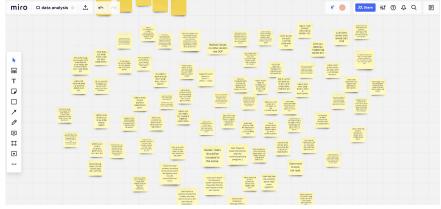
Interpretations

Data analysis (Affinity diagram) Result & Findings



Interpretations: Google Docs comment

Write interpretations individually online via google comment



Online affinity diagram: Miro

Copy all the comments into Miro and grouping(work in progress now)

Data analysis

Gathered data

Script of the data



Sequence notes

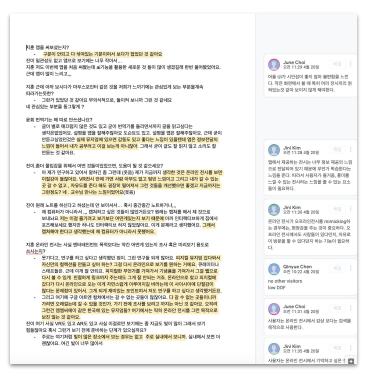
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	le Arts & Culture to enter website——Scan the homepage: 10 seconds(1.5
	-Jump to navigation_Explore——Scan the explore page——Notification appear on
	rt, but ignored—Swipe to the bottom—Try swipe again—Not find any
	-Categories——Place——location permission request notification——close
notification-	keep loadingBack to the homepage
Big banner	strike a pose—Roughly scan the picture and text—Zoom in picture—Click
share——d	o nothing and close—read text again—Stop for a moment—Back to the
homepage	-
	ire5—choose penguin—keep fast-forward video—found sound and decrease
voiume	-loading——Back to the homepage
do the cultu	re5—choose bird—swiping very quickly and skip the pages only contained
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For town town	and the second s
	color—slide—choose one picture—explore connections—landscape:
visually sim	illar—portrait: time—Back to the homepage
Search-	-choose keyword: moma(system recommend)choose Van Gogh's
	-screen brightness adjustmentobserve brushstrokeszoom in more in
detail——c	lick"personal gallery"——do nothing——Back to the homepage
	omepage——Explore museum——choose"social fabric"——wait
	-refreshing page——scan briefly——zoom in logo——choose one picture——read
	ction—zoom in the picture to see detail—click on a book button
repeatedly-	—click like button—Back to the homepage
Caan tha h	omepage—France at your fingertips—choose"a bridge"—play the
Scan the no	omepage——France at your ingertips——choose a bridge ——play the

Rough sequence notes, and we are going to divide them in detailed time

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Data analysis **Gathered data**

in-depth interview



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Reflection.

Data analysis

Reflection

Q. Good Points of our research

- Good recruitment: our participant is expertise in online museum and gave us many insightful answers.
- 2. Good camera setting:
 - Various observing angles and didn't miss any details of the user (facial expression, hand gesture(movement), screen).
 - Although experiment was conducted in public space, due to good camera setting, no any passer-by were captured in videos
- 3. Only one representative asked questions, so participant was not confused.

Q. What we can do better next time

- 1. Difficulty to observe with the three cameras together at the same time.
 - → It is better to divide work and observed them in detail.
- 2. Difficulty to ask questions in real time: since need time to thinking and network delay
 - ightarrow 1. More knowledge of online exhibition $\,$ 2. Check the network issue in advance
- 3. It was really hard to let everything happen be authentically in front of the camera. For example, while visiting online museum, it is possible that some notification may interrupt the user, but since it is an experiment, participant may close all the notification and be well prepared.
- 4. It was conducted at the cafe, although no other people was captured, it could be better to **ask permission from the people** around it.

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Data analysis

Reflection

Q. What the difficulties were in conducting the C.I with online

- 1. To observe with the three cameras together at the same time.
- 2. There is a time gap between the user's behavior and the question
- 3. It May increase burden on participants in the experiment
 - burden of installation
 - recording of filming equipment

Q. How the CI helped your design project or did not help

- 1. (helped) We were able to find out user's specific behavior patterns when appreciating online exhibitions
- 2. (helped) We recognized user needs and some unconscious problems that could't get from FGI
- 3. (didnt' help) It could be a biased C.I because we only observed just one person

Thank you for your attention

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Focus Group Interview