Minimal mobile human computer interaction
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LMM Study Interview Questions

Warmup

• How is it going?
• How did your day go so far?

Intro

• Could you please describe the environment around us?
• How are you feeling right now? Sad? Happy? Anxious?
• What do you normally do here? What kinds of activities do you do in such an area?
• Do you normally see your friends here?
  • What about people that you’ve seen before but don’t really know?
• When you think about this area, what do you remember or associate it with? Feel free to walk around.
• Can you think about one memorable thing you did here, and if possible explain it to me?

Into the Cafe

1. Explanation of LMM prototype
2. Quick Demo
3. First Tryout as Image

• After using LMM prototype, what do you think is the purpose of this application?
  • Can you please explain?

1. In-depth Explanation of anchoring & sharing in prototype

Figure A.1: Semi-Structured interview questions for the pilot LMM study. Form continues on next page (1/3).
2. Topic of expression: drinking coffee/beverage at a cafe

- Could you please explain the drawing you made?
  Why did you choose to do it here?
- Could you please explain the text you wrote?
  Why did you choose to write this text at this spot?
- Could you please explain the photograph you made?
  Why did you take the photo here?

2-MIN. BREAK

- Which did you prefer best: drawing an image, writing text, or taking photographs?
  Why this?
- Was there something specific in the environment that you directed your (text, drawing, photo) on?
- When you were scanning the environment to make a (text, drawing, photo), what caught your attention most? Why?
- Let me now ask you about a few questions about your sharing preferences. Who would you like to have see the expressions you’ve made here? Friends, family, etc.?
- For a text, image, or photo, would you like the expression you made to stay here for anyone to see?
- Suppose that the expression you made is visible to others on their mobile devices only when you’re close to it, that is in the area. Would do you prefer that?

- If yes, would you like others to approach you about an expression you left behind?
  If no, then why not?

General Social & Urban Context Questions

- Does the fact that people are around here affect the kinds of expressions you would make?
  If yes, then why? Do you feel affected by this more when writing text, drawing, or taking photographs?
  If no, then why not? Is this so for writing text, drawing, and taking photographs?

Figure A.2: Semi-Structured interview questions for the pilot LMM study. Form continues on next page (2/3).
• Do you feel that using such an application makes you more aware of the environment?
  If yes, then why yes?
  If no, then why no?
• Do you feel that using such an application makes you more aware of the people around you?
  If yes, then why yes?
  If no, then why no?

About the Application Itself
• Was it easy to use the application?
  Explain
• Was it easy enough to make an expression while you were observing the environment?
  Explain
• What about if you were involved in the event, that is, doing something like drinking coffee?
  Explain
• What would you improve in this application?
  Extra features? Musical soundtrack? Notifications?
• Finally, what do you think the purpose of LMM prototype is now that you're quite familiar with it?

Figure A.3: Category Attribution Task instruction form. Form continued from previous page (3/3).
How Do You Augment Your Reality in Public Places?

Instructions:
When you make a multimedia expression, please answer all the questions below (in the Question Template). Please make a multimedia expression 2 times per day. The questions should be answered only when you make an expression at a public place. The public place can be the same across days.

Each time you want to express something, consider what kind of media you would like to make the expression in. You can make it in 'one or more' of the following expressions (you are not however restricted to these):

a) draw an image
b) write a short text
c) take a photograph
d) shoot a video
e) leave a voice audio recording (i.e, a podcast)
f) upload a song

- If you choose to draw an image or write text, then please enclose your drawing or text within a box of the same size as the screen of the mobile device shown below.

- If you choose to take a photograph(s), shoot a video(s), leave a voice audio recording(s), or upload a song(s), then please email these files to abdallah.elali@gmail.com after the week has ended.

For every expression that you make, you can choose to make it:

a) Public: anyone can see/hear the expression you made
b) Private: only your friends or a network you choose can see/hear the expression you made

Figure A.4: LMM multimodal diary study questions. Form continues on next page (1/2).
Question Template:

Date:

Time:

Expression type: a) drawing b) text c) photograph d) video e) voice recording f) song g) other:

Title/Name of the expression:

Public or Private?

1) Where are you right now?

2) Please explain why you made the expression at this place.

3) Please describe how you are feeling right now. (e.g., happy, sad, anxious, excited, lazy, etc.)

4) Please describe the environment around you.

5) Who are you with right now?

6) What were you doing before you made the expression?

7) Is there an event going on where you are (e.g., sunset, festival, live band, market, dinner, etc.)? If yes, please describe the event.

8) If yes to question 7), are you participating in this event, or did you only observe it?

9) If yes to question 7), is this the first time you participate/see such an event?

10) Were you able to express what you wanted? If not, please state why you couldn’t.

11) Was there something specific in the environment that you directed this expression at? If yes, please state what it is.

Figure A.5: LMM multimodal diary study questions. Form continued from previous page (2/2).
LMM Study Exit Interview

1. Did you face any difficulties in filling in the diary during the last week?
   If yes, can you please explain?

2. Where there days where you felt more inspired to post something (e.g., over the weekend)?

3. Where there particular locations that made you feel more inspired to post an expression?

4. Which media type did you make use of most during the last week?
   Was there a reason for using this type over the others?

5. Did you feel the diary made you more aware of your everyday environment?
   Please explain.

6. Was your overall experience during the last week different because you had to fill in the diary?
   Please explain.

7. Would you use a mobile application that supports posting various types of multimedia content at locations?
   Please explain.

8. If you were viewing expressions made by others at a location, would you be interested in seeing information similar to what was asked from you in the diary?
   At what level of detail would you like to see it? Would you want the information to adapt to your current situation and/or desires?

9. If a mobile application asked you questions similar to the ones in the diary (e.g., who you were with, what event is happening, etc.), would you fill in this information?
   At what level of detail would you be willing to do so?

10. Would you like to add anything further?

Figure A.6: LMM study exit interview questions.
LMM Study - Category Attribution Task

Age: ______
Sex: M / F
Education level (Bachelor’s/Master’s/Doctorate): ________________

Listed below are explanations provided by people about why they made a multimedia expression (e.g., a song, a photo, a video, text, etc.). Your task is to provide TASK and DOMAIN categories that you believe best classify an explanation.

For each explanation listed below, please assign TASK and DOMAIN categories according to your first impression. If you believe more than one task or domain is needed, then please fill them in. Below are lists of TASKS and DOMAINS you can use. You can list the number of the TASK and DOMAIN category in each row.

Note: if you choose Other, then please fill in the category you think best classifies the explanation.

Tasks:
1) Appreciation (i.e., enjoying the qualities of something)
2) Recommendation (i.e., recommending something to others)
3) Criticism (i.e., being critical of something)
4) Altruism (i.e., actively seeking to help)
5) Self-reflection (i.e., reflecting on one’s own actions or feelings)
6) Activity reporting (i.e., reporting to people what you have done)
7) Other (please state what you think)

Domains:
1) Aesthetics (e.g., a beautiful scene)
2) Entertainment (e.g., a film)
3) Transport (e.g., train ride)
4) Products & Services (e.g., eating food or putting money in the bank)
5) Health & Well-being (e.g., feeling sick)
6) Education (e.g., studying)
7) Architecture (e.g., a building)
8) Other (please state what you think)

Figure A.7: Category Attribution Task instruction form. Form continues on next page (1/2).
<table>
<thead>
<tr>
<th>#</th>
<th>Media Type</th>
<th>Explanation</th>
<th>Task</th>
<th>Domain</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>drawing</td>
<td>Wanted to try out my first multimedia expression</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>photo</td>
<td>Beauty of the sun shining over the bldg. opposite the icy water</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>song</td>
<td>We were studying for a few hours, and now we are listening to music instead. The song I chose fits well the work atmosphere</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>audio</td>
<td>I was struck by the sudden intensity of the voices</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>photo</td>
<td>OV-chipkaart organization messed up because my picture is on it only half way</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>photo</td>
<td>I wanted to make a picture of a black mountain bike disappearing in the distance, but the picture had a bad focus so it did not work out as well as I expected</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>video</td>
<td>The scenery is just beautiful; the snow is still fresh on the trees</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>photo</td>
<td>I needed to make an expression</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>photo</td>
<td>Most interesting location of the day</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>text</td>
<td>I'm in a private area so no one should be able to copy credit card data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>text</td>
<td>Because I liked the movie</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>text</td>
<td>Because my hands were freezing!</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>photo</td>
<td>The boat has an actual stove that I made my coffee on - very old fashioned!</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>photo</td>
<td>Wow, nice view</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>photo</td>
<td>Excessive amount of people on the train</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>photo</td>
<td>I liked the shot</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>song</td>
<td>We're almost as good as the original</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>photo</td>
<td>A sign of good morning world we're there again</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>text</td>
<td>I saw a bird eating snow</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>photo</td>
<td>As a real dutchy, when there is ice, you need to go there</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Figure A.8: Category Attribution Task instruction form. Only a sample of 20 questions shown. Form continued from previous page (2/2).