

SURVEY INSTRUCTION

. Click to write the question text

Informed Consent

Welcome to the research study!

We are interested in understanding user perceptions on security and satisfaction requirements of context-aware software applications. You will be illustrated with some scenarios of usage and asked to answer some questions about them. Please be assured that your responses will be kept completely confidential.

The study should take you around 35 minutes to complete. It consists of four parts as follows:

Part 1: Demographic questions

Part 2: Personality test

Part 3: Perceived Importance on Security and Satisfaction requirements

Part 4: Feedback

Please note that this survey will be best displayed on a laptop or tablet. Some features may be less compatible for use on a mobile device.

In case you need to pause the questionnaire, just close the window. To resume, please use the same questionnaire link or QR with the same device.

If you would like to contact us in the study to discuss this research, please e-mail to: n.condori-fernandez@vu.nl

By clicking the button below, you acknowledge that your participation in the study is voluntary, and that you are aware that you may choose to terminate your participation in the study at any time and for any reason.

☐ I consent, begin the study

☐ I do not consent, I do not wish to participate

Demographic questionnaire

. Demographic questionnaire

Q1. What is you age group?

☐ 20 - 28

☐ 29 - 40

☐ 41 - 59

☐ 60 -70

☐ 71 or more

Q2. What is your Gender?

☐ Male

☐ Prefer not to say

☐ Female

☐ Other

Q3. Please, select the sector of your current job(s). (You can choose more than one option if it was necessary)

☐ Academia

☐ Industry

☐ Government

☐ Other

Q4. In which domain your job is inside?

- | | |
|--|---|
| <input type="checkbox"/> Accounting | <input type="checkbox"/> Health-care / Medical |
| <input type="checkbox"/> Aerospace / Aviation / Automotive | <input type="checkbox"/> Education |
| <input type="checkbox"/> Management Information Systems | <input type="checkbox"/> Transportation |
| <input type="checkbox"/> Entertainment (Games) | <input type="checkbox"/> Utilities |
| <input type="checkbox"/> Finance / Banking / Insurance | <input type="checkbox"/> Other <input type="text"/> |
| <input type="checkbox"/> Government / Military | |

Q5. Do you have experience on the requirements?

- | | |
|---|---|
| <input type="radio"/> Functional requirements | <input type="radio"/> Both (functional and quality) |
| <input type="radio"/> Quality requirements | <input type="radio"/> None |

Q6. If you worked on the requirements, how many years of experience do you have?

- ☐ Less than 1 year
- ☐ 1 to 2 years
- ☐ 3 to 5 years
- ☐ 6 to 10 years
- ☐ More than 10 years

Q7. How much time do you spend on your mobile phone on average in a day?

- ☐ Less than 30 minutes
- ☐ From 30 minutes to 1 hour
- ☐ From 1 to 2 hours
- ☐ From 2 to 3 hours
- ☐ More than 3 hours

Q8. Do you use any of the following features of your mobile phone? If so, how much time do you spend on this feature?

	Don't use it	Less than 30 min	From 30 min to 1 hour	From 1 to 2 hours	More than 2 hours
Camera	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Internet browsing/applications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gaming	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Text messaging	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other utilities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Personality questionnaire**. Personality test**

This is a personality test that consists of a number of characteristics that may or may not apply to you.

Instructions

In the list below, please use the slider to set your score for each statement on a five-points likert scale. With the mouse button pressed, move the slider button to the left or the right.

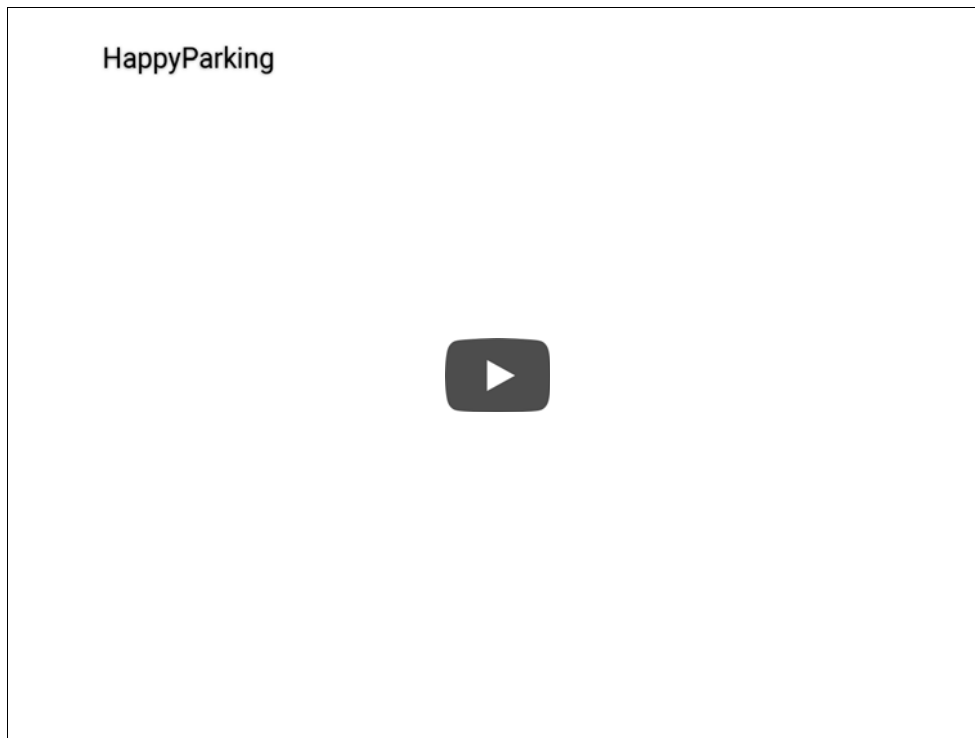
I see myself as someone who...

	Disagree Strongly	Disagree a little	Neither agree nor disagree	Agree a little	Agree strongly
	1	2	3	4	5
Tends to find fault with others					3
Is depressed, blue					3
Is original, comes up with new ideas					3
Is helpful and unselfish with others					3
Is relaxed, handles stress well					3
Is curious about many different things					3
Starts quarrels with others					3
Can be tense					3
Is ingenious, a deep thinker					3
Has a forgiving nature					3
Worries a lot					3
Has an active imagination					3
Is generally trusting					3
Is emotionally stable, not easily upset					3
Is inventive					3
Can be cold and aloof					3
Can be moody					3
Values artistic, aesthetic experiences					3

Importance to security and satisfaction (First video-demo)

. Importance to security and satisfaction

Please watch the 1-minute video that introduces the HappyParking app.



First video

Q1. How willing are you to recommend happyparking?

Not at all likely											Extremely likely
0	1	2	3	4	5	6	7	8	9	10	
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Q2.

Please read carefully the following definitions of quality attributes and rate them respect to their importance for the happyparking app.

Security:

	Not at all important	Slightly important	Moderately important	Very important	Extremely important
Accountability: actions of an entity can be traced uniquely to the entity.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Confidentiality: system ensures that data are accessible only to those authorized to have access.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Integrity: system prevents unauthorized access to, or modification of, computer programs or data.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Authenticity: the identity of a subject or resource can be proved to be the one claimed.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q3. Satisfaction :

	Not at all important	Slightly important	Moderately important	Very important	Extremely important
Usefulness: user is satisfied with their perceived achievement of pragmatic goals.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Trust: stakeholders has confidence that a product or system will behave as intended.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

second video

. HappyParking Scenario

After watching the following video, please answer the following questions.

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happyParking security vulnerabilities (Second video-demo)

Q1. How willing are you to recommend happyparking?

Not at all likely											Extremely likely
0	1	2	3	4	5	6	7	8	9	10	
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Q2.

Re-evaluating the Importance to security and satisfaction requirements: For those qualities that you would like to update their corresponding extent of importance, Please rate them again.

Security :

	Not at all important	Slightly important	Moderately important	Very important	Extremely important
Confidentiality: system ensures that data are accessible only to those authorized to have access.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Integrity: system prevents unauthorized access to, or modification of, computer programs or data.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Authenticity: the identity of a subject or resource can be proved to be the one claimed.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Accountability: actions of an entity can be traced uniquely to the entity.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q3. Satisfaction:

	Not at all important	Slightly important	Moderately important	Very important	Extremely important
Trust: stakeholders has confidence that a product or system will behave as intended.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Usefulness: user is satisfied with their perceived achievement of pragmatic goals.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q4.

According to the second video, please drag and rank them according to their importance/relevance.

Drag at least five items from the left-hand list into the right-hand list to order them

<div>Items happyParking should check Frank's movements and suggested paths. It should alerts Frank in case any deviation is detected. happyParking should check Frank's authentication for each interaction between him and the App. happyParking should register the path chose by Frank in order to trace him. happyParking should prevent Frank in case the path proposed is dangerous, if Frank chooses this path it will be responsibility of him. happyParking should authenticate Frank. happyParking should ensure Frank arrives near from his destination. happyParking should prohibit the simultaneous access of Frank in two different devices. happyParking should ensure that Frank's data is not used for other purposes beyond that finding a free parking. happyParking should prevent any change on sensitive data. happyParking should ensure and protect the watch connection in order to avoid the disclosure of sensitive data.</div>	<div></div>
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Feedback

Feedback

Your feedback is really important for us to improve our study. Please feel free to let us know your suggestions or comments:
