**Improving the Adaptation Process for a New Smart Home User**

**About the Survey**

The survey aims to gather information about how normal day’s activities are performed in terms of certain activities and also measuring user satisfaction after using the developed system. It will be conducted on two faces. In the first face, the user will be invited to describe how he/she perform the certain (pre-selected) activities in morning and evening. The system will be designed based on the user answered and invited the user in the smart home to performed the answered activities in a real environment. Then, the second face of the interview will be conducted where the user will be asked a series of question about the experience of using the new system.

**First part of the survey (Activities of Daily Living):**

The targeted (pre-selected) are as follows:

Morning activities: A. Waking-up, B. Using bathroom, C. Using shower, D. Making tea, E. Going outside.

Evening activities: A. Entering home, B. Using bathroom, C. Relaxing, D. Making Dinner E. Sleeping

**Day Description:**

Could you explain how your days are in terms of target activities? ( We expect you to provide information such as "Mondays: 7:00-7:30 make a coffee, brush teeth, wash hands 12:30-13:00 make pasta, watch television...". Please, limit yourself to activities carried out in your home.)

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1. **Morning activity:**

* **Wake up**

**What time do you perform the activity?**

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**What locations of your home do you perform the activity in? (If the activity can be perform in different location such as relaxing)**

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**How many ways do you perform this activity? (For example, if the user relaxing either setting on sofa or setting on bed.)**

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**Could you briefly explain the ways you perform the activity?**

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**Could you estimate how long take to each way performs the activity?**

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* **Using bathroom**

**What time do you perform the activity?**

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**What locations of your home do you perform the activity in? (If the activity can be perform in different location such as relaxing)**

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**How many ways do you perform this activity? (For example, if the user relaxing either setting on sofa or setting on bed.)**

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**Could you briefly explain the ways you perform the activity?**

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**Could you estimate how long take to each way performs the activity?**

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* **Using shower**

**What time do you perform the activity?**

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**What locations of your home do you perform the activity in? (If the activity can be perform in different location such as relaxing)**

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**How many ways do you perform this activity? (For example, if the user relaxing either setting on sofa or setting on bed.)**

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**Could you briefly explain the ways you perform the activity?**

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**Could you estimate how long take to each way performs the activity?**

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* **Making tea**

**What time do you perform the activity?**

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**What locations of your home do you perform the activity in? (If the activity can be perform in different location such as relaxing)**

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**How many ways do you perform this activity? (For example, if the user relaxing either setting on sofa or setting on bed.)**

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**Could you briefly explain the ways you perform the activity?**

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**Could you estimate how long take to each way performs the activity?**

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* **Going outside**

**What time do you perform the activity?**

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**What locations of your home do you perform the activity in? (If the activity can be perform in different location such as relaxing)**

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**How many ways do you perform this activity? (For example, if the user relaxing either setting on sofa or setting on bed.)**

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**Could you briefly explain the ways you perform the activity?**

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**Could you estimate how long take to each way performs the activity?**

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1. **Evening Activity:**

* **Entering home**

**What time do you perform the activity?**

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**What locations of your home do you perform the activity in? (If the activity can be perform in different location such as relaxing)**

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**How many ways do you perform this activity? (For example, if the user relaxing either setting on sofa or setting on bed.)**

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**Could you briefly explain the ways you perform the activity?**

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**Could you estimate how long take to each way performs the activity?**

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* **Using bathroom**

**What time do you perform the activity?**

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**What locations of your home do you perform the activity in? (If the activity can be perform in different location such as relaxing)**

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**How many ways do you perform this activity? (For example, if the user relaxing either setting on sofa or setting on bed.)**

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**Could you briefly explain the ways you perform the activity?**

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**Could you estimate how long take to each way performs the activity?**

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* **Relaxing**

**What time do you perform the activity?**

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**What locations of your home do you perform the activity in? (If the activity can be perform in different location such as relaxing)**

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**How many ways do you perform this activity? (For example, if the user relaxing either setting on sofa or setting on bed.)**

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**Could you briefly explain the ways you perform the activity?**

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**Could you estimate how long take to each way performs the activity?**

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* **Making dinner**

**What time do you perform the activity?**

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**What locations of your home do you perform the activity in? (If the activity can be perform in different location such as relaxing)**

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**How many ways do you perform this activity? (For example, if the user relaxing either setting on sofa or setting on bed.)**

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**Could you briefly explain the ways you perform the activity?**

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**Could you estimate how long take to each way performs the activity?**

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* **Sleeping**

**What time do you perform the activity?**

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**What locations of your home do you perform the activity in? (If the activity can be perform in different location such as relaxing)**

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**How many ways do you perform this activity? (For example, if the user relaxing either setting on sofa or setting on bed.)**

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**Could you briefly explain the ways you perform the activity?**

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**Could you estimate how long take to each way performs the activity?**

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**Second part of the Survey (Measure the User Satisfactions):**

1. How useful that the smart home provide the services from day one?

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| --- | --- | --- | --- | --- |
| **Very useless** | **Useless** | **Neutral** | **Useful** | **Very useful** |
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1. How similar you find between simulated home and real home?

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| --- | --- | --- | --- | --- |
| **Very dissimilar** | **Fairly dissimilar** | **Similar** | **Fairly similar** | **Very similar** |
|  |  |  |  |  |

1. How was the simulated behaviour to the answers you provided?

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| --- | --- | --- | --- | --- |
| **Very dissimilar** | **Fairly dissimilar** | **Similar** | **Fairly similar** | **Very similar** |
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1. How useful is the simulation to recognize the real house?

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| --- | --- | --- | --- | --- |
| **Very useless** | **Useless** | **Neutral** | **Useful** | **Very useful** |
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1. How correctly the house provide the automation service?

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| --- | --- | --- | --- | --- |
| **Very early** | **Early** | **On time** | **Late** | **Very late** |
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1. What improvements would you do to the system?

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**How shooting the video**

<http://www.diydoc.tv/2016/05/40/>