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| **Interface Use Description** | Briefly describe the purpose of the Voice User Interface feature that you prototyped (1-2 sentences)  For user to have better experience inside kitchen. |
| **Possible Key Questions** | What aspects of your VUI do you have questions about? What might you want to test or explore? List at least 3 possibilities. *Ex: “Is it better to list out all of the user’s search results, or to display it on the screen instead?”*   1. Is it better to have a male for female voice? 2. Is it better to have it compatible with Android , ios or both? 3. Is it better to have a large screen or not? |
| **Chosen Key Question** | Identify one question from your list above as your final choice.  Question #3 |
| **Hypothesis** | What is your hypothesis for the result of your chosen key question? (1-2 sentences)  I would say a relatively large screen (like the size of a small Ipad) |
| **Independent Variables** | What are the independent variables of your experiment? How can you implement this as a variant of your original Dialogue Flow prototype? *Ex: the method by which multiple search results are presented to the user.* (2-3 sentences)  The way we give information to user will through both screen and microphone. Since it will include all possible ways to give information. |
| **Dependent Variables** | What are the dependent variables of your experiment? (That is, what do you expect to change in response to the independent variable(s)?) (1-2 sentences)  I would say the voice since users have different preferences. |
| **Instrumentation** | What quantitative data, if any, do you need to collect to measure the dependent variable? How will you collect this data? *Ex: timing how fast a user responds, or counting how many questions the user has to answer to achieve their result* (1-2 sentences)  Time that a user responds and the time of a regular cooking. |
| **Survey Questions** | What qualitative data do you need to collect? What questions will you ask  to collect this data? These questions can be in the form of Likert scale questions or interview questions that you ask face-to-face.  Hi, “user name”, what would be the best estimate of your response time after your interface give you the information? |
| **Control & Random Variables** | What are the control & random variables? Why are you including these in particular (i.e. how does this help improve validity of your experiment)? (3-4 sentences)  I need to control the users’ experience of using modern devices. People have different time of using devices can result in completely different results. For example, a college student will perform better than someone who never used such as device before. |
| **Within subjects or between subjects** | Will you perform a within subjects or between subjects experiment?  Why?  (2-3 sentences)  I will perform a between subjects experiment. Because the conditions should be controlled . |
| **Tasks** | What task or series of tasks will your experiment participant be asked to attempt in order to answer your key question? Remember: the tasks must be completable in 10 minutes or less. (3-4 sentences)  For 2-3 person, give them multiple devices with screen, without a screen , with a sound bar and without a sound bar. After that, I will give them some form to fill. Those form will include the questions of their experience. |
| **Task Script** | How will you describe the task(s) to your participant? Draft a brief portion of your script below.  Hi, my name is Frank and I am a UC Berkeley student. And I am conducting a survey of how do you feel about our newly-designed device that can help you in the kitchen. |