**Prompt**

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| 1. Get together as a team and summarize the main things that worked and the main things that did not work in the interview process, and how the things that didn’t work might be improved. Include this analysis in the final submission. As a team summarize the information collected and prioritize. Note down the rationale for the prioritization. 2. Build a prioritized set of requirements (functional and non-functional, in the format provided in Chapter 4 of Sommerville) and system models (as you see fit) to capture what should be done for the design as well as possible constraints. 3. Write a scenario (see Ch. 4.10 and the lecture notes) that represents one of the most important ways a user might use your product (and why) given what you learned in the requirements/needs collection process. 4. Each member of the team should write at least one functional and one non-functional structured specification that would need to be met to deliver the scenario. |

Collect the observations on interviewing:

* The summary of the user needs and requirements (from the user’s perspective)
* The prioritized set of user requirements (functional and non-functional)
* System models
* Your scenarios, and
* Each person’s structured specifications (identify who wrote them)

**Response**

A1. What Workedin the Interview Process

* The users were delighted by the idea of parking integration service & food truck availability service
* The user likes the fact that it is connected to Canvas, in particular its ability to read notes and assignments back to them
* Most of the users were delighted with the idea of being able to set alerts and notifications that would pop up
* Users liked the idea of being able to set preferences on when alerts or reminders should go off
* Users provided requests like connecting to Google Maps to help suggest when they should leave their home to get to school before a specific time
* Users wanted a GUI-based app that can connect to a speaker-interface

A2. What Didn’t Work in the Interview Process

* The users are unsure about the ability of the voice application commands are not being taken.
* Half of the users we interviewed do not currently use, nor would they ever use, any sort of voice application system.
* Some of our users are committed to how their current process works and aren’t willing to change, regardless of what the program offers
* Some of the users interviewed prefer to “wing it” and don’t want any of the functionality provided by the product

B. Build: Prioritized set of requirements, System models

USER REQUIREMENTS DEFINITION & SYSTEM REQUIREMENTS SPECIFICATION

1. The system shall determine which parking garage the user shall park in based on proximity to classroom destination and number of spots available.
   1. The system shall get updated parking information every 5 minutes.
   2. The system shall issue an alert if a parking lot is completely full for the general public (not including handicapped or EV charging spots).
   3. The system shall have the ability to know where the user is located for navigation purposes.
   4. The system shall warn you if you’re about to get towed
2. The system shall implement a GUI-based application to enable the user to utilize functionality without using voice prompts
   1. The system shall send information to your phone or a display system based on the response.
   2. The application shall be able to run on Android and iOS.
   3. The application shall scale appropriately based on the screen size and rotation of the phone
   4. The system shall keep a history of the conversation and responses
3. The system shall integrate with CANVAS to keep track of the user’s assignments
   1. The system shall not disclose any personal information that falls under FERPA restrictions.
   2. The system shall keep track of campus events that you have subscribed to.
   3. The system shall alert you every time there is a CANVAS calendar reminder.
4. The system shall determine which food truck is available
   1. The system shall send the user a notification when the food trucks arrive and leave.
   2. The system shall get updated food truck information daily
   3. The system shall let users mark which food trucks they want to bookmark
5. The system shall automatically sync to any Google smart home devices
   1. The system shall automatically update software and firmware every 48 hours if connected to the internet.

C. Scenario Representing the Most Important Ways a User would use Product

Lisa is a full-time student at UW Bothell who works part time to keep up with her bills. When she gets home from school and work, she is often too mentally drained to keep track of everything she needs to do for school, but Google Student is there to remind her of what assignments she has to work on that night. The next morning, she’s tired and woke up late for school, but Google Student notified her of exactly when she needed to leave for school to get there on time, and which parking spot she should head to in order to get to class as quickly as possible. The following afternoon, Lisa is all caught up with her assignments, so Google Student reminds her to take some time to herself and relax after all her hard work.

D. Each member should write at least **1x Functional** and **1x Non-functional** Specification

**Functional:**

1. The system shall issue an alert if a parking lot is completely full for the general public (not including handicapped or EV charging spots). (Hadassah)
2. The system shall alert you every time there is a calendar event. (Borna)
3. The system shall send information to your phone or a display system based on the response (Ben)
4. The system shall calculate the amount of time needed to get to class on time. (Taylor)
5. The system shall implement a GUI-based application to utilize functionality without using voice prompts (Taylor)
6. The system will alert the user when favorited food trucks will arrive on campus (Gabe)
7. The system will read to the user a listing of the most imminently-due assignments (Jon)

**Non-functional:**

1. The system shall not disclose any personal information that falls under FERPA restrictions. (Hadassah)
2. The system shall ask you security questions when logging in. (Borna)
3. The system shall have the ability to know where the user is located for navigation purposes. (Taylor)
4. The system shall have the ability to integrate with CANVAS (Taylor)
5. The system shall keep a history of the conversation, and responses (Ben)
6. The system shall keep a record of food trucks that arrive on campus and when (Gabe)
7. The system shall be able to accommodate simultaneous usage by the entire UW Bothell student body (Jon)