Capstone ideas:

(1) Project Direction:

Text - Public Platform

Reply history

Voice - Amazon Alexa

Voice input, convert to text, pass to Hubot, feedback via HipChat (possibly others)?

(2) SWOT analysis:

|  |  |  |
| --- | --- | --- |
| SWOT Characters | Alexa | Hubot (preferred) |
| Strength | Intuitive,  reliable service such as voice recognition and smart AI engine | Direct feedback,  visual,  accessible,  easy to debug and test |
| Weakness | Requires hardware,  Only available in workplace, needs login (Portable Echo speaker requires Internet connection) | Harder to develop |
| Opportunity | Stable, reliable  Product, popular in household,  easy to interact | Simple, portable  Good for designers, |
| Threat | Bundled to Amazon’s platform, don’t know how it works internally, hard to test debug its ai engine . expensive | Unknown factors about AI engine (Classification, Keyword extraction, voice recognition) |
| Implementation | 1. Add authentication functionality on echo.  2. Add interaction skills/rules to Alexa console.  3. Use Alexa’s API to integrate with existing business platforms: call Jira’s API to operate/manipulate on the user’s dashboard. | 1. Define rules for hubot  2. Use AI engine to identify user’s intent  3. use specified rule to produce the desired result  4. return the result to the Chat Application. |

Questions to ask:

1. What tools and internal applications do you provide?

2. What are the tasks you want the virtual assistant be able to do?

3. What do you want the virtual assistant to be like (a plugin or an app with GUI)?

4.

<https://github.com/amzn/alexa-skills-kit-java/tree/master/samples/src/main/java/helloworld>

Zephyr

Feb 1st

Questions:

1. What kind of software do you need? Web, mobile application or desktop?
2. What kind of software do you recommend?
   1. The interaction software, for example, Jira, Trello.
   2. The communication software, for example, skype.
3. What roles do you need? For example, designer, developer or planner?
   1. As a developer, I want to see (result), so that (do something)
4. Is chat good enough to support the function? Do you want more functions for the project?
5. What kind of interaction do you want to see?
6. What kind of security do you want to see? For instance, do you want to see the access from outside, or access should only in the inside?
7. What kind of schedule do you like to see? One-time schedule or several-time schedule? For example, simply define 2 sprints for design requirements, 4 sprints for finishing the project. Or In 1 sprint, the first day we finish one task, the next day we finish another task?
8. What functions do you want? For example, calendar, memo or notes?
9. Do you want some use cases or stories?