# Heap Exchange

Our company wants to build a product that is a resource for developers. A metaphor for this product would be like having a room full of software experts at your disposal to ask questions for any issue you encounter.

On my application, developers ask questions to the community of developers. Experts or anyone from the community can respond to the question. Developers can comment on answers as well. Developers will be able to browse questions and search for questions based on keywords. When viewing a question, developers will also be able to see a list of similar questions that are related to the one they are viewing.

Developers can up-vote if they agree with the answer, or down-vote if they disagree. This would sort answers to the question based on their validity--with the answers that receive the highest number of up-votes appearing at the top, and those with the lowest appearing at the bottom.

Each developer can have an account. Developers must have an account if they wish to ask questions or respond to questions and/or answers. Developers who ask a question can get notifications when someone answers it. Developers can browse questions without an account. They can also up-vote and down-vote answers without an account. A developer’s account can be updated to have a profile picture. The profile page shows all the questions that the developer has asked or responded to. A developer with an account can bookmark questions. They can also put a question into a watchlist -- whenever someone answers this question, they would get a notification.

There are some other features that we are thinking about adding and expanding, but we’ve decided to save it for future releases until we know our site works well with the current needs.

DEVELOPER:

1. As a developer, I want to ask questions to the community of developers, so that experts or anyone can respond to the question.
2. As a developer, I want to have comment sections under the questions, so that I can be able to answer the replies as well.
3. As a developer, I want to have voting buttons, so that I can be able to up-vote or down-vote to the answers.

Search by keywords is a bit broad and general. Since Stanley, the client, wrote this user story, the team wants him to clarify it. They ask Stanley if he wants a**simple search** that matches keywords with one field (e.g., question titles) only or if he wants a **full-text search** that matches the search criteria with question title, body, category, and author? How about searching questions under specific **categories**?

Stanley wants it all. To be specific, he wants a simple search functionality that matches the search criteria with both question title and body. He also wants advanced full-text search that matches all fields. Search should also work when specific categories (e.g., AI, Mobile Dev, Algorithm, etc.) are selected.

1. As a developer, I want to search with just one keyword, so that it matches with the question title or body.
2. As a developer, I want to search by full text, so that they match with all fields.
3. As a developer, I want to search by specific categories, so that it works with all types of categories.

Account Holder

1. As an account holder, I want to have an account, so that I can ask questions or give answers to the questions.
2. As an account holder, I want to have a notification bar, so that when someone answers questions I can get them.
3. As an account holder, I want to have a profile page, so that I can be able to view the questions or answers.

The team knows Stanley wants to “bookmark” and “watchlist” a question. However, they can’t quite tell the difference between them, so they ask Stanley to elaborate it a bit. Stanley explains that the key difference between “bookmark” and a “watchlist” is the notification - if an account holder puts a question into their “watchlist,” whenever someone answers this question, they would get a notification. In contrast, bookmarked questions are just for reference-- there’s no future action.

1. As an account holder, I want to bookmark questions, so that I can be able to use them for reference.
2. As an account holder, I want to add questions into the watchlist, so that I can get notifications when anybody answers them.