

CS361: Assignment 7: Sprint 2 Plan (for Microservice)

# Overview

Plan the microservice you’re creating for your partner. That includes defining how to **request** and **receive data** from the microservice.

# Instructions

Complete each item below by replacing the highlighted text (**Usability note**: double-click the text to select it).

1. What is your **Sprint Goal**? (e.g., fully implement the spell-checker microservice)

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| ***I will be implementing the microservice which searches recipes based on the “star ratings” of recipe reviews.*** |

1. Define at least **2 user stories** for this Sprint and put them in your **Sprint Backlog** in your task management system. If the microservice is separate from your individual project, these are NEW user stories (otherwise, they might be from your Product Backlog).

Take a **screenshot** of the microservice user stories in your **task management system**. The screenshot should show the **“As a” format** for each story.

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Optionally, define acceptance criteria for the user stories (in a real-world project, you *should* do this, but I’m giving you a break from it this Sprint).

1. Since the Sprint Goal might not fully communicate it, describe **what the microservice will do**.

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| ***My partner’s project is a recipe application, in which a user can search and retrieve any recipes by providing different criteria, such as categories, preparation time, ratings, etc. The microservice I will be implementing will help users to search recipes based on the star ratings of a recipe. Most of the recipes in the database which are retrieved by API call have star ratings which ranges from 5 stars “\*\*\*\*\*” to 1 star “\*”. Some recipes do not have star ratings. The microservice I will implement will return the recipe names based on the rating provided by a user. For example, if a user enters” \*\*\*”for ratings, the microservice will return the recipes with 3 star rating*** *“\*\*\*”.* |

1. What kind of **communication pipe** will the microservice use? (e.g., text files, REST API)

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| ***The communication pipe used is Rest API and JSON files. APIs (which is open to public) is used to access to recipe database and when request is made to retrieve recipe data, data are returned in JSON format.*** |

1. How will others **request data** from the microservice? If possible, give an example call.

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| ***Users request data by selecting the search criteria from the UI, for example, Asian recipes, then, the public API is used to access to the public recipe database. If the API returns status code 200, the request is successful. The search criteria can be parsed to API call if API supports the criteria as parameter options or search criteria request will be used to retrieve data from parsing returned JSON response.*** |

1. How will others **receive data** from the microservice?

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| ***Data is received in JSON format after the successful API request. Once JSON format files are retrieved, these JSON files are parsed based on the criteria which are implemented by each microservice call (e.g., microservice which searches recipes by preparation time, microservice which searches recipes by star ratings. Users will receive requested data based on these microservice calls.*** |

1. What is your **partner’s individual project**?

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| ***My partner’s project is to create a recipe app with a command line interface. A user can select a recipe from the provided options and criteria including a rating of a recipe.*** |

1. How will the microservice **fit into your partner’s individual project**?

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| ***I will be creating the rating search recipe microservice using an API and the response from this microservice will be received by my partner’s application.*** |

1. What microservice is your **partner implementing** (for you)?

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| ***My partner will be implementing scoring microservice, which will calculate the total score based on the correctness of a user’s response to each quiz question*** |

1. How will the microservice your partner is making **fit into your individual project**?

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| ***My partner’s microservice will evaluate the user’s response and calculate the total score. My partner’s scoring microservice needs to receive data from the microservice I am working on this sprint, which sends user’s responses. Once my partner’s microservice sends a total score, my microservice receives the score and display the total score to the user.*** |

# Submission

PDF or Word format via Canvas.

**You must follow instructions at Modules > “Attach a Document to "Text Entry" Field”.**

# Grading

You are responsible for satisfying all criteria listed in the Canvas rubric for this assignment. You will be able to revise this assignment if you miss points.

# Questions?

Please ask via Ed so that others can benefit from the answer.