Oregon State University
Ecampus

CS361: Assignment 6: Sprint 2 Plan (for Microservice)

Overview

Plan your microservice. That includes defining how others will **request** and **receive data** from your microservice. *Note*: You will be asked to share this completed assignment with your team.

Instructions

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

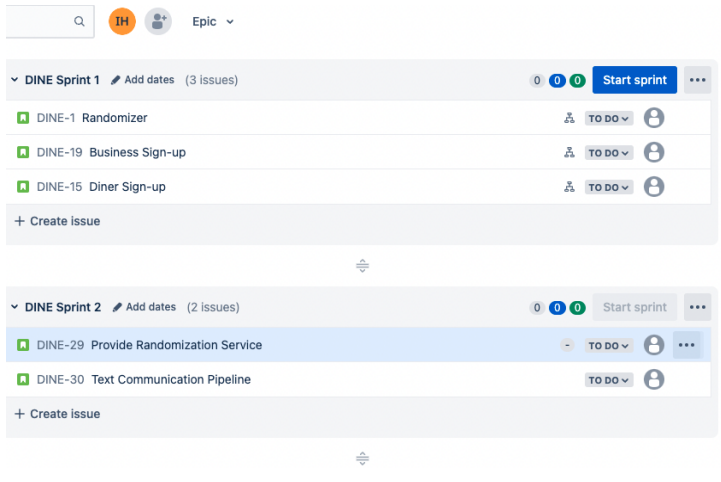
1) What is your **Sprint Goal**? (e.g., fully implement the spell-checker microservice)

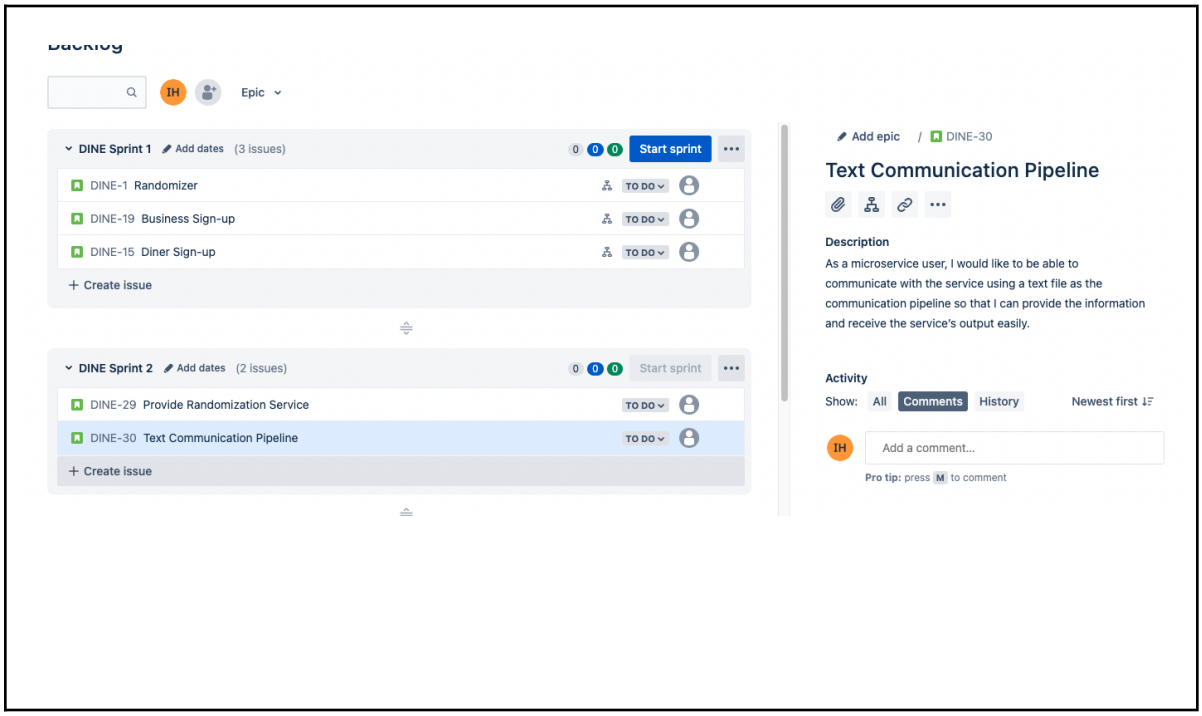
   Fully implement the randomization microservice

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

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

   OneOrMoreScreenshots





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

3) Since the Sprint Goal might not fully communicate it, describe in a couple sentences **what your microservice will do**.

My microservice will take in a list of restaurants stored in a .txt file and return to the .txt file a randomized selection from the given list. The purpose of this microservice is to provide a randomization feature for the user receiving the service.

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

Text Files

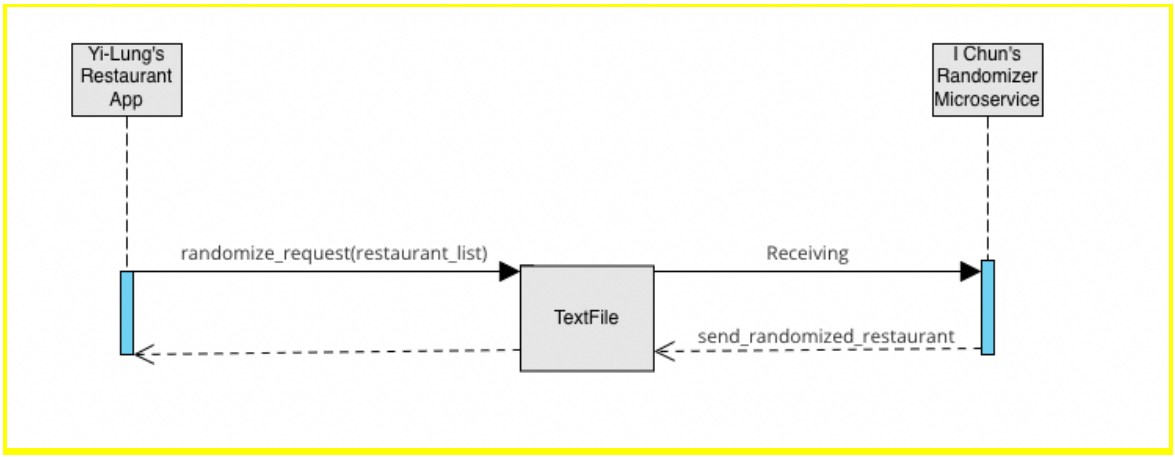
5) How will others **request data** from your microservice? Describe **precisely and thoroughly** and give an **example call**. If your grader does not understand, they will not give you points. This will be considered a **communication contract**---you cannot change it. Your teammates will rely on this contract.

Other's will request data by writing into a text file that the microservice is reading from. The microservice will be up and running in the background, and as soon as data comes into the text file, it will process the information in the text file. The data coming into the text file should be a list of strings delimited by a comma. Each element represents a restaurant. For example, the user can have their program write into the text file that reads "tacobell, mcdonalds, subway".

6) How will others **receive data** from your microservice? Again, describe precisely. This is the other part of your communication contract.

Others will receive data from my microservice via a text file. Once my microservice receives data in the text file, it will process the data and output one single restaurant into the text file. Continuing with the example in part 5, the microservice might output "mcdonalds" in the communication text file.

7) Provide a **UML sequence diagram** showing your communication contract. Participants must include "Teammate Individual Project" and your microservice. Feel free to sketch or to use digital tools. See assignment page for tool recommendations.



Submission

PDF or Word format.

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.