

CS361: Assignment 9: Sprint 3 Plan (for Milestone #3)

# Overview

Plan Microservices B, C, and D you’ll make for your main program to call.

# 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, grammar checker, email address validation microservices) The Sprint Goal must clearly communicate what each of the B, C, and D microservices will do.

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| --- |
| *SprintGoal* |

1. Define **at least two user stories** for each microservice (B, C, and D). Provide your user stories and their functional and non-functional acceptance criteria (and associated quality attributes).

**Requirements for *each* microservice:**

* You must implement at least two user stories for each microservice.
* Each user story must have a name.
* Each user story must use the “As a… I want to... so that…” format.
* Each user story must have at least one functional acceptance criterion.
* All functional acceptance criteria must use the “Given… when… then…” format.

**Requirements for the *set of* microservices:**

* At least three different quality attributes must appear at least once on a user story’s “back of index card”.
* Each quality attribute must be converted to a non-functional requirement.

## Microservice B:

**First user story**

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| --- |
| (Front of index card)  *UserStoryName*  *UserStoryFormat (*As a… I want to... so that…*)* |
| (Back of index card)  **Acceptance criteria**  Functional requirements   * *Given...when...then...Format*   Quality attributes & Non-functional requirements   * *QualityAttribute: NonFuncReq* |

**Second user story**

|  |
| --- |
| (Front of index card)  *UserStoryName*  *UserStoryFormat (*As a… I want to... so that…*)* |
| (Back of index card)  **Acceptance criteria**  Functional requirements   * *Given...when...then...Format*   Quality attributes & Non-functional requirements   * *QualityAttribute: NonFuncReq* |

## Microservice C:

**First user story**

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| --- |
| (Front of index card)  *UserStoryName*  *UserStoryFormat (*As a… I want to... so that…*)* |
| (Back of index card)  **Acceptance criteria**  Functional requirements   * *Given...when...then...Format*   Quality attributes & Non-functional requirements   * *QualityAttribute: NonFuncReq* |

**Second user story**

|  |
| --- |
| (Front of index card)  *UserStoryName*  *UserStoryFormat (*As a… I want to... so that…*)* |
| (Back of index card)  **Acceptance criteria**  Functional requirements   * *Given...when...then...Format*   Quality attributes & Non-functional requirements   * *QualityAttribute: NonFuncReq* |

## Microservice D:

**First user story**

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| (Front of index card)  *UserStoryName*  *UserStoryFormat (*As a… I want to... so that…*)* |
| (Back of index card)  **Acceptance criteria**  Functional requirements   * *Given...when...then...Format*   Quality attributes & Non-functional requirements   * *QualityAttribute: NonFuncReq* |

**Second user story**

|  |
| --- |
| (Front of index card)  *UserStoryName*  *UserStoryFormat (*As a… I want to... so that…*)* |
| (Back of index card)  **Acceptance criteria**  Functional requirements   * *Given...when...then...Format*   Quality attributes & Non-functional requirements   * *QualityAttribute: NonFuncReq* |

1. What kind of **communication pipe** will each microservice use? (e.g., text files, REST API)  
   Note: You can use the same type of communication pipe for all three microservices or different types.

|  |
| --- |
| *NameOfCommunicationPipe(s)* |

**This would be a good time to make a new repository for each of your microservices.**

# Submission

Upload a document in PDF or Word format via Canvas.

# Grading

You are responsible for satisfying all criteria listed in the Canvas rubric for this assignment.

# Questions?

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