

CS361: Assignment 3: Project Plan and Sprint 1 Plan (for Milestone #1)

# Overview

Now that you’ve been introduced to the microservices concept, start planning your individual project. It’s OK to change your plan later!

First, define the entire set of user stories for your individual project. The timespan for the user stories is this term but you don’t have to finish implementing all the user stories this term. These user stories will need to go in a **Product Backlog** column/section/category of your task management system.

Next, move some of those user stories into a **Sprint Backlog**—these will be the user stories you WILL complete during this Sprint (for Milestone #1) and comprise your **Sprint Plan**. **Note these minimum requirements for Milestone #1:**

* Has a way for users to interact (e.g., provide input, push buttons, etc.)
* Reflects CSH
* Reflects three quality attributes you choose (i.e., satisfies the non-functional requirements you write for each quality attribute)
  + *Hint: If you choose “usability” or “inclusivity” as a quality attribute, your corresponding non-functional requirement can involve the CSH*

# Instructions

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

## Task Management System

Choose a task management system based on the spike you did previously.

**Which task management system** did you choose?

|  |
| --- |
| *Trello* |

## 

## Product Goal and Backlog

You’ll be using *some* Scrum methods in this course. Unfortunately, the Scrum Master and Product Owner roles don’t work well in this setting. You will, however, be experiencing Scrum Events and Artifacts.

* 1. What is your **Product Goal** for your individual project?

|  |
| --- |
| *ProductGoal* |

The Scrum Guide (<https://scrumguides.org/scrum-guide.html>) doesn’t give a detailed description of the Product Goal: “**describes a future state**”, “**long-term objective**”. Example Product Goal: “Develop software I can use to communicate with my dog when I’m on vacation.”

* 1. In a **Product Backlog** column, section, or category of your task management system create **user stories** for your entire **individual project**. Use INVEST to guide you.

## Requirements for user stories:

* Each has a **name** that briefly describes the functionality
* Each uses the **“As a… I want to… so that…” format** (see textbook)
* Total of at least **10** user stories (you will not have to implement all of these)
* As a set, must have **no obvious violations of INVEST**

|  |  |  |
| --- | --- | --- |
|  | **Name (e.g., “Login”)** | **As a… I want to… so that… format** |
| **1** | *Name* | *AsAFormat* |
| **2** | *Name* | *AsAFormat* |
| **3** | *Name* | *AsAFormat* |
| **4** | *Name* | *AsAFormat* |
| **5** | *Name* | *AsAFormat* |
| **6** | *Name* | *AsAFormat* |
| **7** | *Name* | *AsAFormat* |
| **8** | *Name* | *AsAFormat* |
| **9** | *Name* | *AsAFormat* |
| **10** | *Name* | *AsAFormat* |

Enter these user stories into your task management system. Take a **screenshot** so that the grader can confirm you added the stories.

|  |
| --- |
| *ScreenshotOfUserStoriesList* |

## 

## Non-Functional Requirements

## Select the top three quality attributes you care about for your individual project. See <https://en.wikipedia.org/wiki/List_of_system_quality_attributes>for ideas. Convert them into non-functional requirements.

## Which three quality attributes did you choose? Name and define each.

|  |  |
| --- | --- |
| **Quality attribute name** | **Quality attribute definition** |
| *QualityAttributeName* | *QualityAttributeDefinition* |
| *QualityAttributeName* | *QualityAttributeDefinition* |
| *QualityAttributeName* | *QualityAttributeDefinition* |

## 

## Why did you choose these quality attributes? Ex: How are they relevant to your end user? How are they relevant to your Product Goal? (1+ sentence per quality attribute)

|  |  |
| --- | --- |
| **Quality attribute** | **Why it’s relevant to YOUR project** |
| *QualityAttribute* | *OneOrMoreSentence* |
| *QualityAttribute* | *OneOrMoreSentence* |
| *QualityAttribute* | *OneOrMoreSentence* |

## Convert your quality attributes to non-functional requirements. Must be testable. What are your three non-functional requirements? How will you test that they’re satisfied? (1+ sentence each)

|  |  |
| --- | --- |
| **Quality Attribute 1** | *QualityAttribute* |
| **Non-functional requirement 1** | *NonFunctionalRequirement* |
| **How will you test that the non-functional requirement is satisfied** | *OneOrMoreSentence* |

|  |  |
| --- | --- |
| **Quality Attribute 2** | *QualityAttribute* |
| **Non-functional requirement 2** | *NonFunctionalRequirement* |
| **How will you test that the non-functional requirement is satisfied** | *OneOrMoreSentence* |

|  |  |
| --- | --- |
| **Quality Attribute 3** | *QualityAttribute* |
| **Non-functional requirement 3** | *NonFunctionalRequirement* |
| **How will you test that the non-functional requirement is satisfied** | *OneOrMoreSentence* |

## 

## Sprint 1 Plan (for Milestone #1)

## What is your Sprint Goal?

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| --- |
| *SprintGoal* |

## Next, select at least three user stories from your Product Backlog and move them to your Sprint Backlog. Choose what you think you can complete, but recall the minimum requirements (see Overview). Which user stories did you select?

|  |
| --- |
| *UserStoryName* |
| *UserStoryName* |
| *UserStoryName* |

## Take a screenshot that shows you’ve moved these user stories into a Sprint Backlog in your task management system.

|  |
| --- |
| *Screenshot* |

## Now that you’ve selected your Sprint user stories, you will define several tasks for each user story—the tasks you’ll need to complete to complete the user story. Add tasks to each user story and take screenshots showing each user story’s tasks in your task management system. Note: It might work best to make your user story a task and your tasks subtasks of the user story.

|  |
| --- |
| *MultipleScreenshots* |

## Lastly, you’ll need a Definition of Done for the Sprint. You’ll need to show this DoD is satisfied when you do your implementation.

**Requirements for Definition of Done:**

* Has an least one acceptance criterion for each user story
* Each acceptance criterion uses the “Given… when… then…” format

|  |  |
| --- | --- |
| **Acceptance criterion** | **For which user story?** |
| *AcceptanceCriterion* | *UserStoryName* |
| *AcceptanceCriterion* | *UserStoryName* |
| *AcceptanceCriterion* | *UserStoryName* |
| Each non-functional requirement is satisfied | None |

## 

## You are NOT required to put the DoD in your task management system.

# Submission

PDF or Word format via Canvas.

You must follow instructions at Modules > 'HOW TO: 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.