

## **Solution: Managing New Requirements from Key Stakeholders**

Review the potential solution for the tasks in this lab by using the solution key below to compare and validate your response.

### **Step 1: Assign priority and story points to the User Stories for the AI feature**

**The new AI feature will enable customers to begin designing custom tools independently. Here are the User Stories:**

- 1. As a user, I want to use an AI assistant to guide me through the initial stage of designing a custom tool so that I can start the process even when an ABC Tools tool and the designer is unavailable.**
  - **Priority:** High (adds significant value to the custom tool process)
  - **Story Points:** 8
- 2. As a user, I want the AI assistant to provide recommendations based on my input (e.g., tool type, purpose, strength, specifications) so that I can make informed design choices.**
  - **Priority:** High (enhances user experience)
  - **Story Points:** 5
- 3. As a user, I want the AI assistant to save my progress so I can return later to complete my custom tool design.**
  - **Priority:** Medium (improves usability)
  - **Story Points:** 3

### **Step 2: Reprioritize Product Backlog based on new requirements**

Combine the new User Stories with the remaining backlog items and prioritize them based on business value, dependencies, and effort. We present the prioritization in two formats, either of which is acceptable. For simplicity, we have also grouped the User Stories.

#### **Updated Product Backlog:**

- 1. AI-assisted custom tool design:**

- AI guides users through initial design steps (Story Points: 8)
- AI provides recommendations based on user input (Story Points: 5)
- AI saves user progress (Story Points: 3)

## **2. Track orders:**

- As a user, I want to track my order so that I can see when my orders are scheduled to arrive (Story Points: 5).

## **3. Contact customer support:**

- As a user, I want to contact customer support so that I can get help with my questions and issues (Story Points: 8).

## **4. Customer reviews:**

- As a user, I want to see ABC Tools' customer reviews and comments so that I can make an informed decision about my intended purchases (Story Points: 3).

## **5. Special deals:**

- As a user, I want to see any special deals available to me so that I can save money (Story Points: 2).

## **6. Work with tool expert:**

- As a user, I want to work with a tool expert so that I can get custom tools designed for my special needs (Story Points: 13).

## **Prioritization:**

1. AI guides users through initial design steps (Priority: High)
2. AI provides recommendations based on user input (Priority: High)
3. Track orders (Priority: Medium)
4. Contact customer support (Priority: Medium)
5. AI saves user progress (Priority: Medium)
6. Customer reviews (Priority: Low)
7. Special deals (Priority: Low)
8. Work with tool expert (Priority: Low)

### **Step 3: Create a preliminary Sprint Goal and Sprint Plan for the second Sprint**

#### **Sprint Goal**

“Enable users to start designing custom tools with AI assistance and track their orders, enhancing the overall shopping experience.”

#### **Sprint Plan**

##### **User Story #1: AI guides users through initial design steps**

- **Tasks:**
  1. Design the AI assistant interface (Frontend)
  2. Develop the AI algorithm for guiding users (Backend)
  3. Integrate the AI assistant with the custom tool design process (Backend)
  4. Write unit tests for AI functionality
  5. Update documentation for the AI feature

##### **User Story #2: AI provides recommendations based on user input**

- **Tasks:**
  1. Design the recommendation interface (Frontend)
  2. Develop the AI algorithm for generating recommendations (Backend)
  3. Integrate recommendations with the AI assistant (Backend)
  4. Write unit tests for recommendation functionality
  5. Update documentation for the recommendation feature

##### **User Story #3: Track orders**

- **Tasks:**
  1. Design the order tracking interface (Frontend)
  2. Implement order tracking functionality (Backend)
  3. Write unit tests for order tracking functionality
  4. Update documentation for the order tracking feature