

Milestone 1 – User Stories

Alex M. Frear

College of Science, Engineering, and Technology, Grand Canyon University

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Professor Stephanie Macuga

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User Stories Document	3
Introduction	3
I. Client Questions	3
II. User Stories	4
A. Functional User Stories	4
B. Non-Functional/Performance User Stories	6
III. Trello Agile Tool Integration	6
Conclusion	7

User Stories Document

Introduction

This document captures the Agile user stories for the "Smart Checkout Nexus: Revolutionizing Retail Connectivity" project. The stories are derived from the requirements gathered for the retail station website and are organized to guide development over the course of the project. In addition, a set of client questions is included to simulate further data collection and refinement of requirements.

I. Client Questions

The following questions were developed to gain further insight into the client's needs and to help refine the project requirements:

1. Website Functionality:

- a. What are the key functionalities you expect from the retail station website?
- b. Are there any additional features you consider critical for enhancing customer service?

2. Hardware Integration:

- a. Can you describe how the LAN, Bluetooth, scan gun, and scale should interact with the website?
- b. What specific requirements do you have for the handheld device (e.g., input method, connectivity)?

3. User Experience:

- a. How should the user interface handle customer interactions such as scanning loyalty cards or printing receipts?
- b. What accessibility features are necessary for the target customer base?

4. Database and System Integration:

- a. What are the specific data points that need to be updated in real time within the accounting and inventory system?
- b. Are there any additional integration requirements beyond SAP and MySQL?

5. Performance and Constraints:

- a. What is your expectation for system responsiveness, especially regarding on-screen updates?

- b. Are there any physical constraints or design preferences for the station's size or layout?

II. User Stories

The following user stories are written in the Agile format:

"As a [user role], I want [feature] so that [benefit]."

A. Functional User Stories

1. R_1: LAN and Bluetooth Connectivity

a. Story:

As a system administrator, I want the station to support LAN and Bluetooth connectivity so that devices can connect seamlessly for data transfer.

2. R_2: Scan Gun for Large Items

a. Story:

As a cashier, I want the station to have a scan gun for large items so that I can scan products quickly and efficiently.

3. R_3: Scale for Items Sold by Weight

a. Story:

As a cashier, I want the station to have a scale for items sold by weight so that pricing is accurate and automatic.

4. R_4: Attendant Assistance for Coupon Scanning

a. Story:

As a customer, I want attendant assistance when scanning coupons so that I can ensure that all discounts are applied correctly.

5. R_5: Real-Time Database Connection

a. Story:

As an accountant, I want the station to have a real-time database connection to the accounting and inventory system so that inventory and sales data remain current.

6. R_6: Handheld Device for Attendant Access

a. Story:

As an attendant, I want to access the station via a handheld device so that I can assist customers from anywhere on the floor.

7. R_7: Handheld Device with QWERTY Keyboard and Number Pad

a. **Story:**

As an attendant, I want the handheld device to have a QWERTY keyboard and number pad so that I can enter data quickly and accurately.

8. R_8: Loyalty Card Scanning / Manual Entry

a. **Story:**

As a loyalty member, I want to scan my loyalty card or enter my phone/email so that I can receive rewards and track my purchases.

9. R_9: Receipt Options

a. **Story:**

As a customer, I want the option to print or e-mail my receipt so that I can choose the most convenient method for record keeping.

10. R_10: Database Support for SAP and mySQL

a. **Story:**

As a system integrator, I want the database connection to support SAP and mySQL so that the system is compatible with our current enterprise solutions.

11. R_11: Manager Overrides on Station and Handheld

a. **Story:**

As a manager, I want both the station and the handheld device to support manager overrides so that I can intervene and correct issues when necessary.

12. R_12: Uploading Weekly Ads and Daily Specials

a. **Story:**

As a marketing manager, I want to upload weekly grocery ad prices and daily specials to the station so that customers always see current promotions.

13. R_13: Customer Call for Attendant Assistance

a. **Story:**

As a customer, I want to be able to call for attendant assistance so that I can get help when needed.

14. R_14: Option to Skip Bagging an Item

a. **Story:**

As a customer, I want the option to skip bagging an item so that I can speed up my checkout process if desired.

15. R_15: Lookup Produce Items by Name or Picture

a. **Story:**

As a customer, I want to look up a produce item by name or picture so that I can easily find product details and pricing.

B. Non-Functional/Performance User Stories

1. NFR_1: Physical Size Constraints

a. Story:

As a facility manager, I want the station to have compact dimensions (maximum 4 ft high, 3 ft wide, and 6 ft long) so that it fits easily into our retail space.

2. NFR_2: Touch Screen Interface

a. Story:

As a customer, I want the station to use a touch screen interface so that it is intuitive and accessible.

3. NFR_3: Attendant Approval for Restricted Purchases

a. Story:

As an attendant, I want to approve purchases of alcohol, tobacco, and cold medicine so that the store complies with regulatory requirements.

4. NFR_4: Accessibility for Wheelchair Users

a. Story:

As an accessibility coordinator, I want the screen and payment devices to be accessible to someone in a standard wheelchair so that the system is inclusive for all users.

5. NFR_5: On-Screen Update Performance

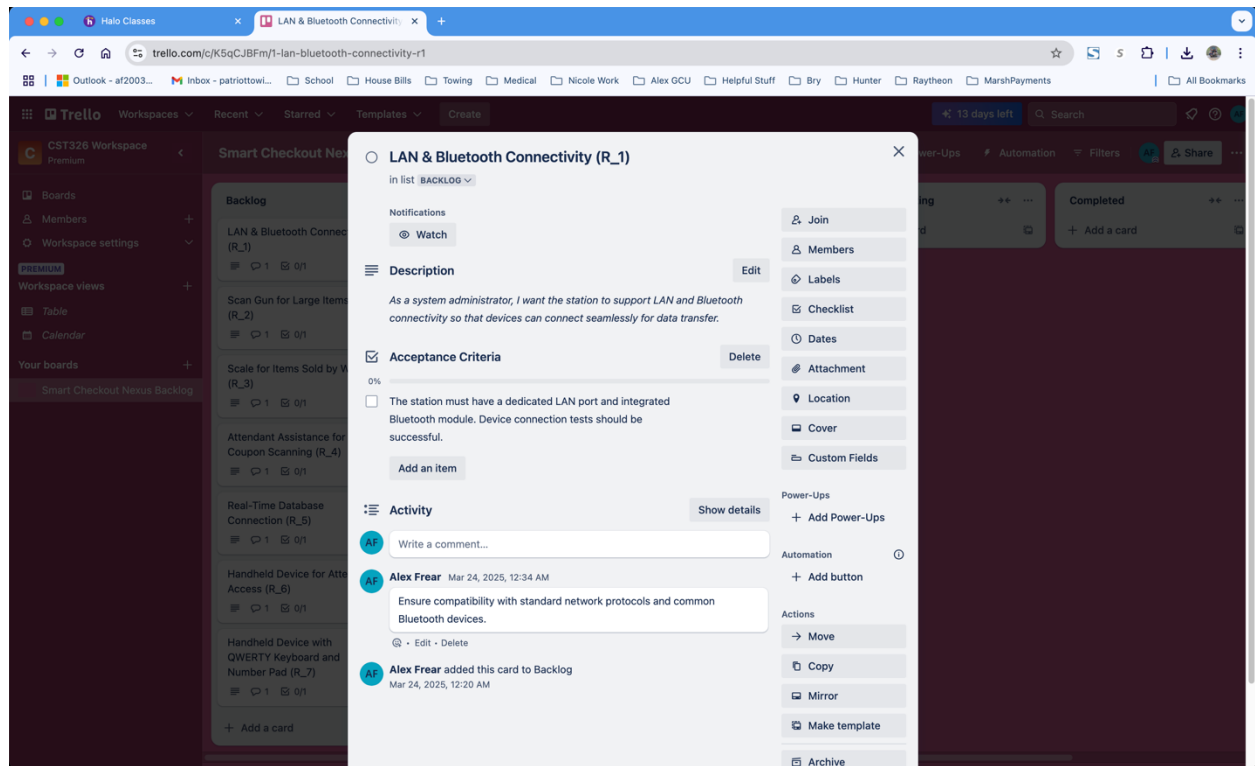
a. Story:

As a customer, I want the on-screen itemized list to update within 15 seconds after scanning so that I can quickly verify my purchase details.

III. Trello Agile Tool Integration

To manage the product backlog using Agile methodology, a Trello board was created for the *Smart Checkout Nexus* project. The board includes lists for managing user stories across different stages of development, such as Backlog, To Do, In Progress, and Completed.

Below is a screenshot of one of the user stories as it appears in Trello, including its description, acceptance criteria, and tracked activity:



Conclusion

This User Stories Document provides a clear, user-centric outline for the project's requirements. Each story has been crafted to ensure that all functionalities and performance measures align with the client's needs and project goals. This document will serve as the basis for further iterative development and refinement as the project progresses.