

**University of  
Roehampton  
London**

## **Sprint 2 Proposal – Team “APEX”**

**Project: Sustainable Grocery Tracker**

### **Team members**

- 1. Nandini kadiyala**
- 2. Sravya Savirigam**
- 3. Manju Uppe**
- 4. Bala Manikanta Chowdary Musunuri**

## 1. User stories

User Story	Description	Acceptance Criteria
As a Buyer, I want to log in to my account so that I can access my grocery tracker.	Authenticates user with email and password.	Login is successful with valid credentials; invalid attempts show an error.
As a Buyer, I want to select a grocery item so that I can keep track of my groceries.	Allows adding name, quantity, and category for an item.	Item appears in the grocery list after adding.
As a Buyer, I want to delete a grocery item so that I can remove unnecessary items.	Enables deletion of selected grocery item.	Selected item is removed from the list.
As an Admin, I want to log in to manage user and grocery data.	Provides secure admin authentication.	Admin login successful for valid credentials only.
As an Admin, I want to add grocery items to the master list.	Allows adding new grocery items for users to choose from.	New grocery items appear in the system list.
As an Admin, I want to delete grocery items from the master list.	Allows removal of outdated or incorrect grocery items.	Grocery item successfully removed from master list.

## 2. Persona as a buyer



### Name: Aisha Patel

<b>Demographics</b> Gender: FEMALE Age: 23 Location: Austin Relationship Status: SINGLE Title: Marketing executive Education: B.S. in Business Administration	<b>Background Description</b> <p>Aisha is a busy marketing professional who wants her shopping habits to reflect her values. She's committed to sustainability but finds it challenging to balance convenience and eco-friendly choices.</p> <table border="1"><tr><td><b>About</b><ul style="list-style-type: none"><li>A busy professional living alone in an urban area. She cares about the environment and wants her shopping habits to reflect</li></ul></td><td><b>Frustrations</b><ul style="list-style-type: none"><li>Finds it hard to know which brands are more sustainable.</li><li>Often forgets to use groceries before they spoil</li></ul></td></tr><tr><td><b>Motivations</b><ul style="list-style-type: none"><li>Wants to contribute to environmental conservation</li><li>Enjoys using technology to simplify sustainability</li><li>Feels satisfaction when making ethical</li></ul></td><td><b>Challenges</b><ul style="list-style-type: none"><li>Hard to identify which grocery brands are sustainable</li><li>Too many apps, none focused on eco-shopping</li><li>Finds product data confusing</li></ul></td></tr></table>	<b>About</b> <ul style="list-style-type: none"><li>A busy professional living alone in an urban area. She cares about the environment and wants her shopping habits to reflect</li></ul>	<b>Frustrations</b> <ul style="list-style-type: none"><li>Finds it hard to know which brands are more sustainable.</li><li>Often forgets to use groceries before they spoil</li></ul>	<b>Motivations</b> <ul style="list-style-type: none"><li>Wants to contribute to environmental conservation</li><li>Enjoys using technology to simplify sustainability</li><li>Feels satisfaction when making ethical</li></ul>	<b>Challenges</b> <ul style="list-style-type: none"><li>Hard to identify which grocery brands are sustainable</li><li>Too many apps, none focused on eco-shopping</li><li>Finds product data confusing</li></ul>
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## As an Admin

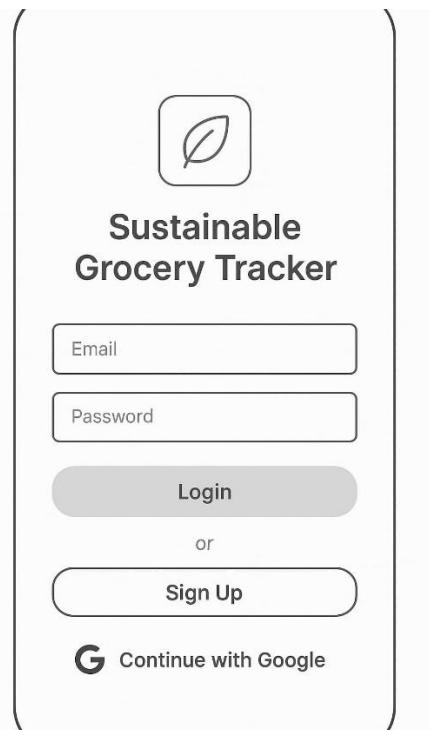


### Name: Sarah Mitchell

<b>Demographics</b> Gender: FEMALE Age: 40 Location: Bristol Relationship: Married Title: Store Operations Manager Education: B.A. in Business Management	<b>Background Description</b> <p>Sarah manages the operations of a local organic grocery chain. She's responsibility for maintaining inventory, tracking product sustainability, and ensuring customers have access es efficiency and wants to use technology to reduce waste and streamline supriler</p> <table border="1"><tr><td><b>Goals</b><ul style="list-style-type: none"><li>Track an intuitive dashboard that keeps me updated on stock levels and sustainability performance – without the clutter.*</li></ul></td><td><b>How the App Helps</b><ul style="list-style-type: none"><li>Provides real-time stock and sales analytics</li><li>Generates eco-impact performance reports</li><li>Flags expiring or low-stock items automatically</li></ul></td></tr><tr><td><b>Motivations</b><ul style="list-style-type: none"><li>Passion for sustainability and community engagement</li><li>Wants to modernize store operations</li><li>Seeks data-driven insights to support decision makina</li></ul></td><td><b>Challenges</b><ul style="list-style-type: none"><li>Manual tracking takes too much time</li><li>Difficulty aligning supplier data with sustainability goals</li><li>Needs a unified dashboard</li></ul></td></tr></table>	<b>Goals</b> <ul style="list-style-type: none"><li>Track an intuitive dashboard that keeps me updated on stock levels and sustainability performance – without the clutter.*</li></ul>	<b>How the App Helps</b> <ul style="list-style-type: none"><li>Provides real-time stock and sales analytics</li><li>Generates eco-impact performance reports</li><li>Flags expiring or low-stock items automatically</li></ul>	<b>Motivations</b> <ul style="list-style-type: none"><li>Passion for sustainability and community engagement</li><li>Wants to modernize store operations</li><li>Seeks data-driven insights to support decision makina</li></ul>	<b>Challenges</b> <ul style="list-style-type: none"><li>Manual tracking takes too much time</li><li>Difficulty aligning supplier data with sustainability goals</li><li>Needs a unified dashboard</li></ul>
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### 3.Wireframes

For buyer:



The image contains two mobile phone wireframes. The left phone shows the "Add Items" screen with fields for "Item Name" (Vegetables), "Category" (Price), "Description", and "Quantity Available" (checkboxes for Organic, Local, Low Waste). The right phone shows the "Manage Items" screen listing items like Tomatoes, Milk, Bananas, and Spinach, each with a delete button.

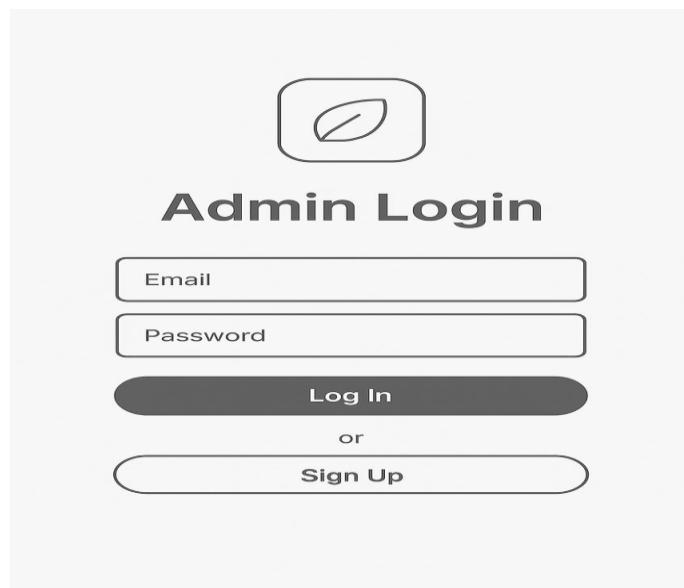
**Add Items**

- Item Name: Vegetables
- Category: Price
- Description:
- Quantity Available:
  - Organic
  - Local
  - Low Waste

**Manage Items**

	Item	Category	Price	Action
	Tomatoes	Vegetables	2.00	<input type="button" value="Delete"/>
	Milk	Dairy	3.49	<input type="button" value="Delete"/>
	Bananas	Fruits	1,29	<input type="button" value="Delete"/>
	Spinach	Vegetables	1,99	<input type="button" value="Delete"/>

For Admin:



Admin

## Add Grocery Item

Name

Category

Price

 \$

Add Item

Cancel

## Delete Grocery Item

Are you sure you want to delete  
this item from the master list?

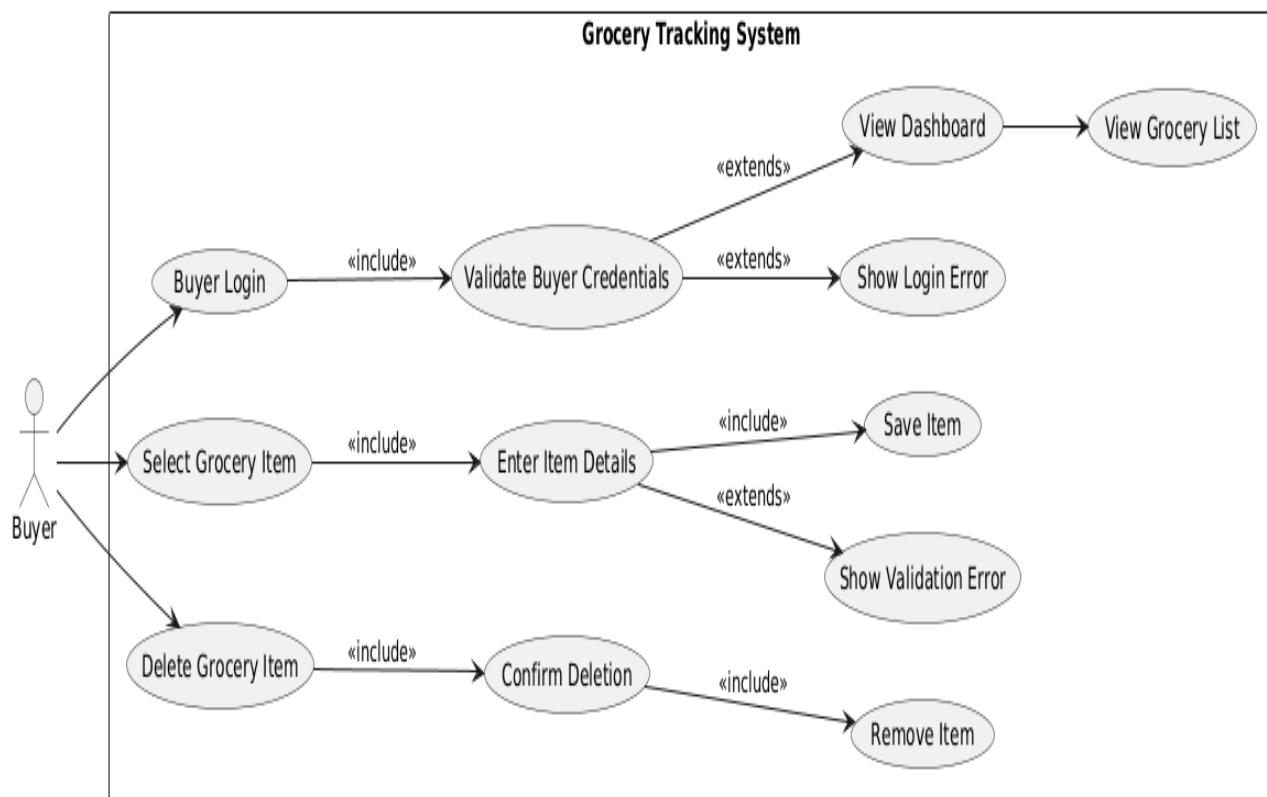
Item Name

Cancel

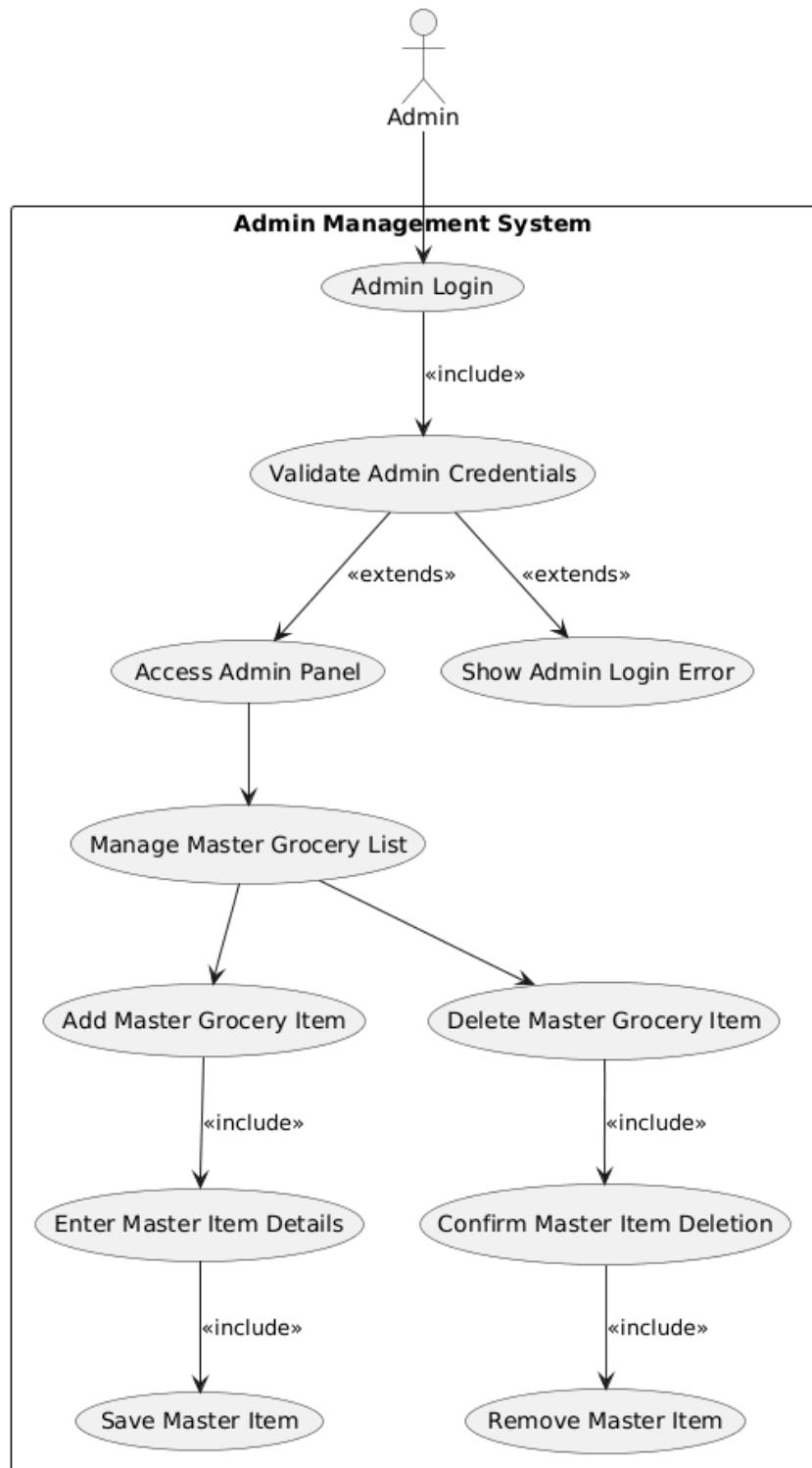
Delete

## 4. Use case diagrams

As a buyer:

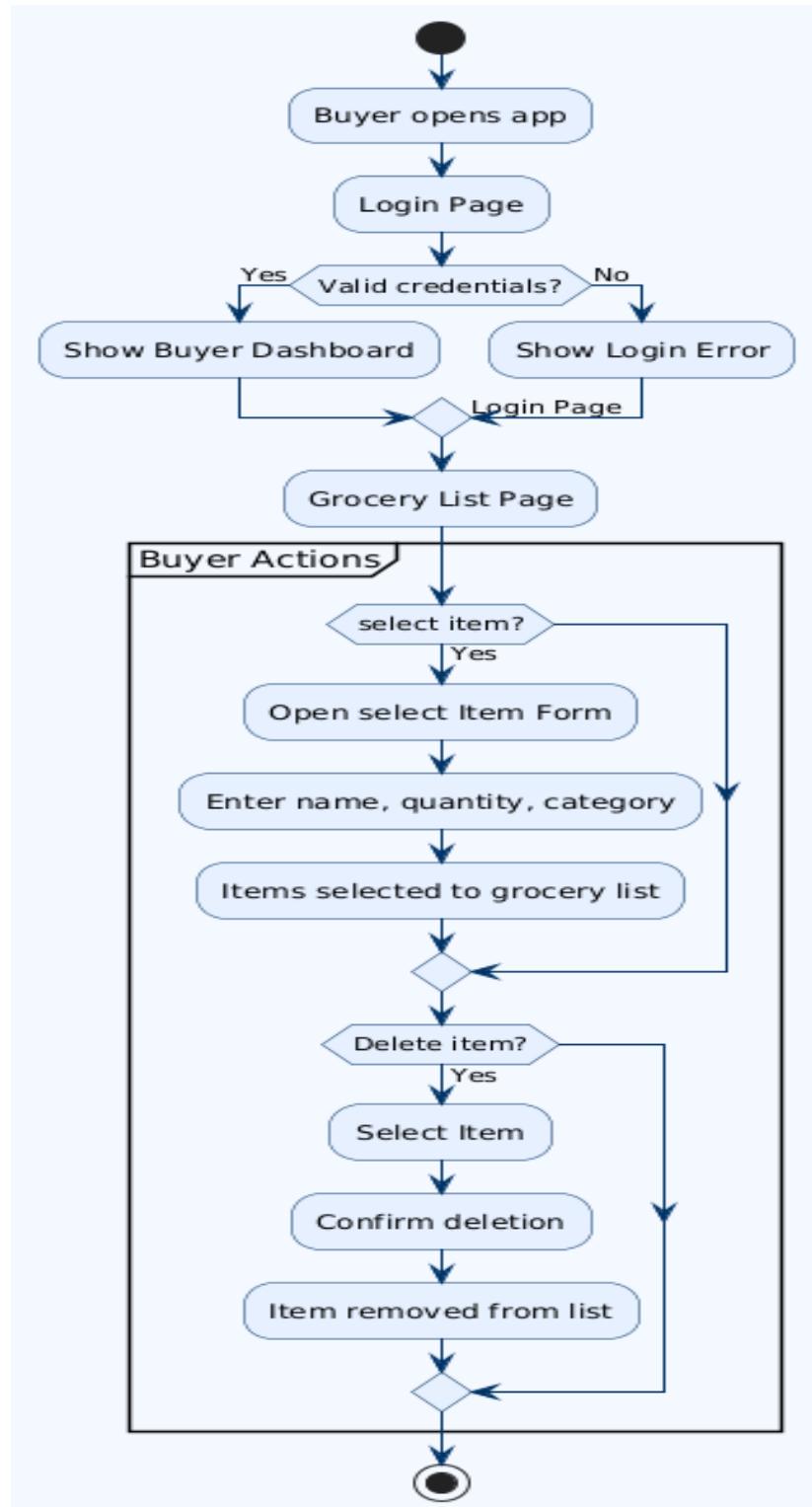


As a admin:

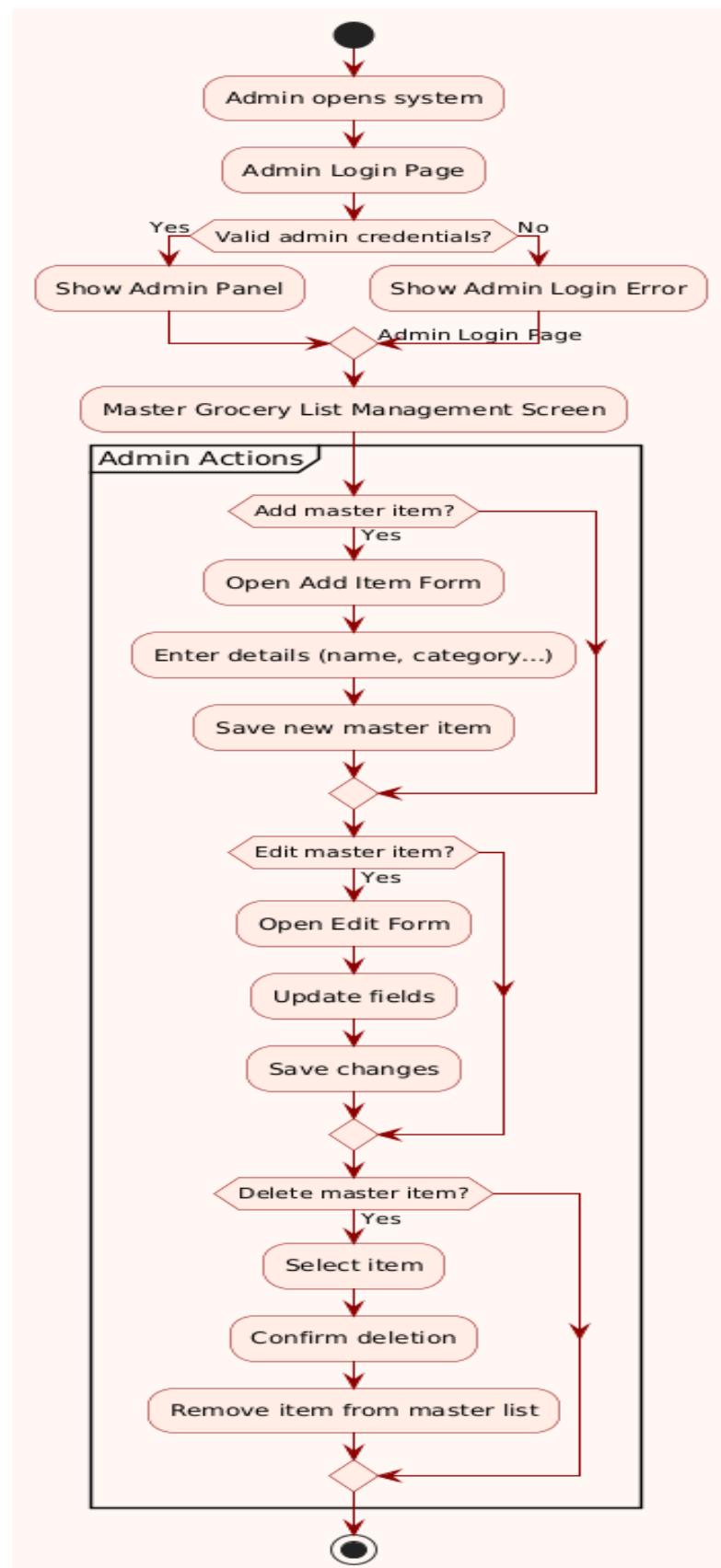


## 5. User flow diagrams

For buyer:

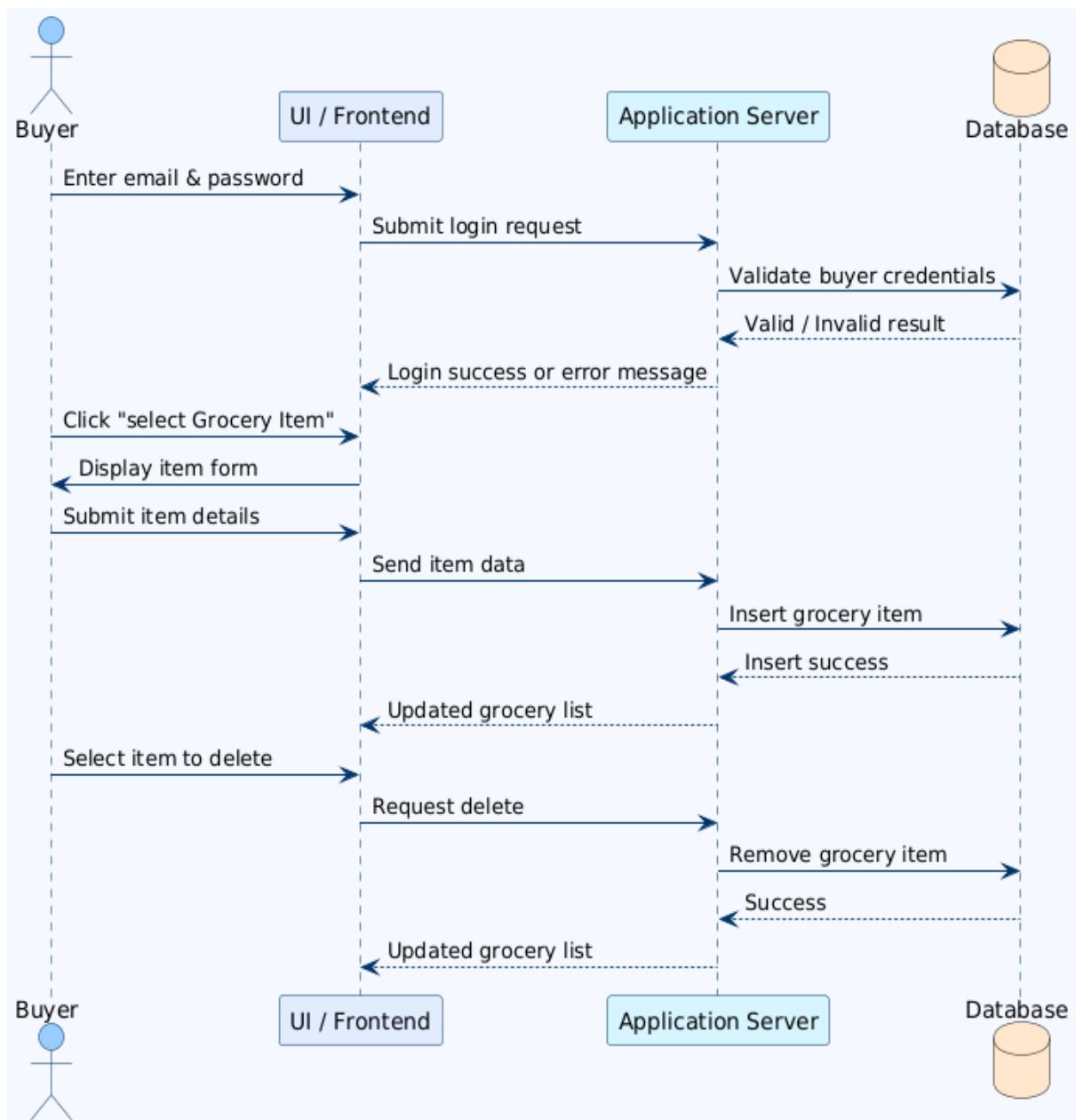


For admin:

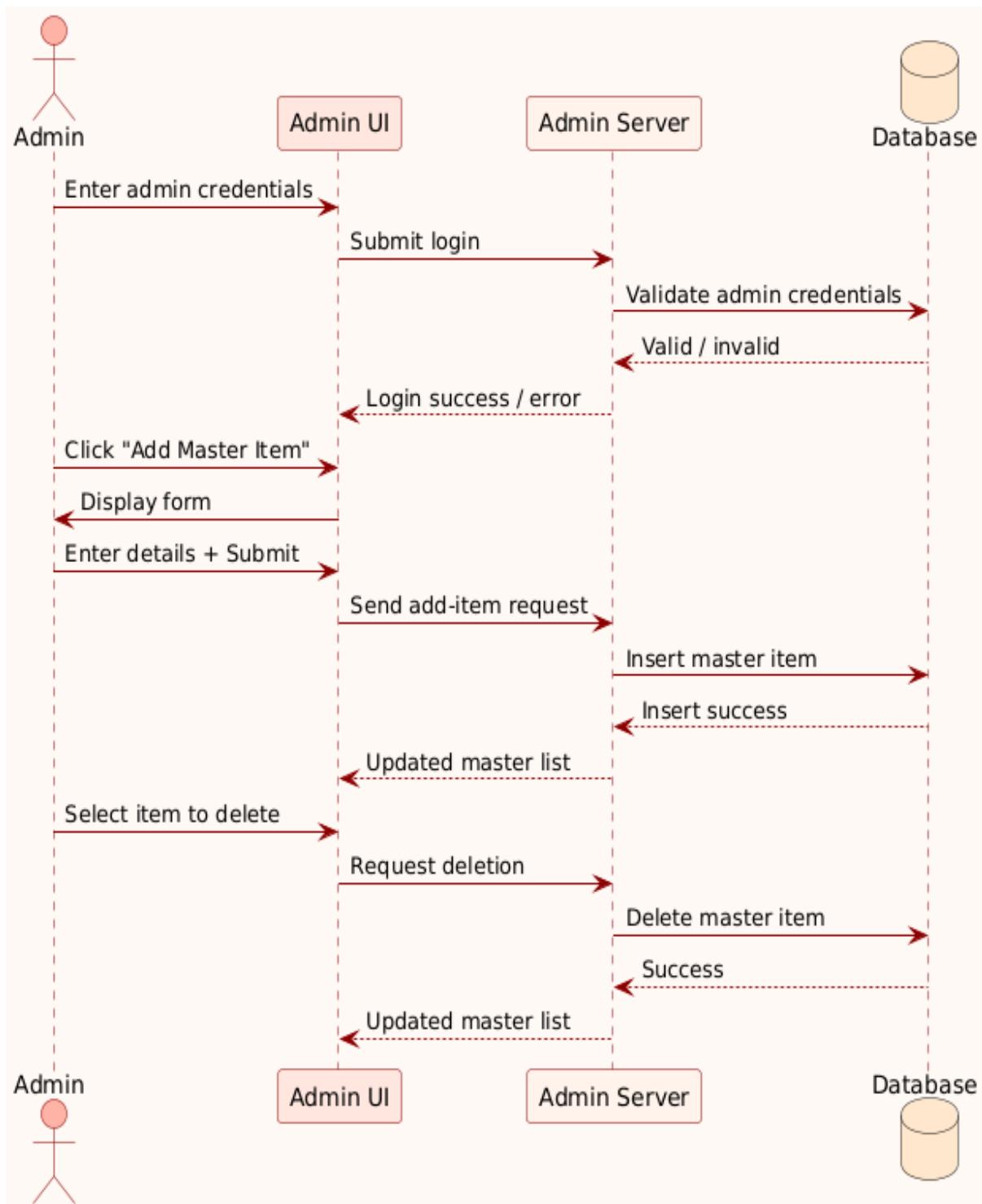


## 6. Sequence Diagrams

As a buyer:



As an admin:



**Trello Link:** <https://trello.com/b/nVz9qrDj/apex-sustainable-grocery-tracker>

**GitHub Repository URL:** <https://github.com/Sravyass498/sustainable-grocery-tracker>

**These platforms are used to manage development tasks, track progress, and ensure consistent version control.**