Product Backlog for BuildSync Inventory Management System

Epic: Managing Inventory

1. **View Inventory Details**
   - **Description:** Implement an inventory dashboard for board members to view all inventory details.
   - **Estimation:** 5 story points
   - **Priority:** High
   - **Assigned to:** Megan Mendez
2. **Filter Inventory by Category**
   - **Description:** Implement filtering options to sort inventory based on part category.
   - **Estimation:** 3 story points
   - **Priority:** High
   - **Assigned to:** Megan Mendez
3. **Real-time Inventory Updates**
   - **Description:** Ensure any changes to inventory (check-in, check-out) are reflected instantly.
   - **Estimation:** 8 story points
   - **Priority:** High
   - **Assigned to:** Megan Mendez and Zhiting Li
4. **Restrict Inventory Modifications to Board Members**
   - **Description:** Implement user role-based permissions where only board members can modify inventory records.
   - **Estimation:** 5 story points
   - **Priority:** High
   - **Assigned to:** Ethan Ruddell and Jacob Andreacchio

Epic: Checking Out Parts

5. **Member Login with UF ID**
   - **Description:** Implement authentication system using UF ID for members to check out parts.
   - **Estimation:** 8 story points
   - **Priority:** High
   - **Assigned to:** Zhiting Li
6. **Confirm Checkout via Email Notification**
   - **Description:** Send an automated email to members confirming checkouts.
   - **Estimation:** 3 story points
   - **Priority:** Medium
   - **Assigned to:** Jacob Andreacchio
7. **Track Checked-Out Parts**

- ○ **Description:** Maintain a record of which member has checked out which part.
- ○ **Estimation:** 5 story points
- ○ **Priority:** High
- ○ **Assigned to:** Zhiting Li

Epic: Returning Parts

8. **Return Parts and Update Status**
    - ○ **Description:** Allow members to return parts and update their availability status in the system.
    - ○ **Estimation:** 5 story points
    - ○ **Priority:** High
    - ○ **Assigned to:** Ethan Ruddell
9. **Confirmation of Returned Parts**
    - ○ **Description:** Send an email confirmation upon successful return of a part.
    - ○ **Estimation:** 3 story points
    - ○ **Priority:** Medium
    - ○ **Assigned to:** Ethan Ruddell
10. **Overdue Part Reminders**
    - ○ **Description:** Implement an automated email reminder for members who have overdue parts to return.
    - ○ **Estimation:** 5 story points
    - ○ **Priority:** Medium
    - ○ **Assigned to:** Jacob Andreacchio