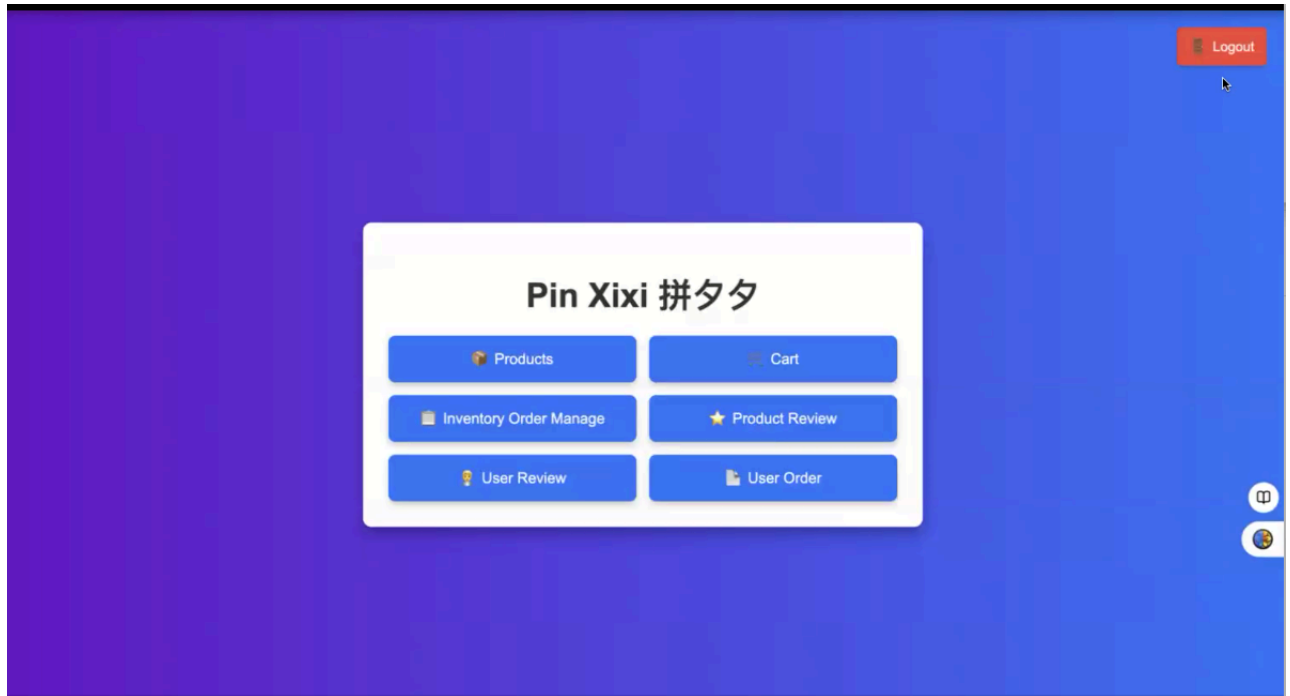# PinXiXi Milestone 4 Report

1. Team Overview

Team Name: PinXiXi 拼夕夕
Team Members and Roles:

- **Weisheng Zhang** - Users Guru
- **Zhixuan Lu** - Products Guru
- **Jiaojiao Zhao** - Carts Guru
- **Shu Pu** - Sellers Guru
- **Shanruo Xu** - Social Guru

2. Database Design Updates

Changes Since Milestone 3

- **Save for Later**: Added new tables to support save-for-later functionality in the cart.
- **Enhanced Review System**:
    - Integrated image support for product and seller reviews.
    - Implemented upvote/downvote mechanism to evaluate review helpfulness.
- **Expanded Dataset**:
    - Increased the database size to include over 100 products, allowing for more

comprehensive testing and demonstration of the platform's scalability.

3. Website Design Updates

Key Functional Enhancements

1. **Logout Feature**
   - Implemented user logout functionality to enhance session management.
2. **Product Updates**
   - Resolved duplication issues during product updates.
   - Fixed a bug where products added by one user appeared under another.
3. **Save for Later in Cart**
   - Users can move items to a "Save for Later" list and restore them to the cart when needed.
4. **Review Enhancements**
   - Users can submit one review per product/seller, with options to edit or delete existing reviews.
   - Reviews now display the top 3 most helpful entries, followed by the most recent.
5. **UI Optimization**
   - Improved layout and visual elements for a more user-friendly experience.

4. Advanced Features Implemented

- **Review Upvote/Downvote**:
  Allows users to mark reviews as helpful or unhelpful, enhancing feedback quality.
- **Image Support in Reviews**:
  Users can upload images alongside reviews for better context.
- **Pagination**:
  Efficiently handles large datasets, improving performance and user navigation.
- **Save for Later**:
  Functions as a favorite list, helping users keep track of products for future purchases.

5. Performance Enhancements

- Added **indexing** to frequently queried tables, significantly improving query speeds.
- Optimized **API endpoints** to ensure efficient handling of large data volumes, especially with the expanded product dataset.

6. Future Work

- **Account Balance Management**:
  Implement functionalities for managing user account balances and related transactions.
- **Feedback Section Enhancements**:
  Further improve user interactions and data visualization within the feedback system.

7. Conclusion

This milestone demonstrates substantial improvements in database design, frontend functionality, and backend integration. By expanding the dataset and refining key features, we have ensured that the platform is scalable and user-friendly, meeting the project's evolving requirements.