Client Layer

- Mobile Application (iOS/Android)
- Web Browser

API Gateway

Application Layer

1. User Service
   a. User Login/Sign up
   b. BuckID integration for student account
   c. Profile Management
2. Purchasing Service
   a. View Product Listings
   b. Add to Cart
   c. View and Leave Reviews & Ratings
   d. Search & Filter
3. Order and Payment Service
   a. Cart management
   b. Apple Pay/ Credit Card/ BuckID balance
4. Seller Service
   a. Item upload
   b. Drop-off scheduling
5. Notifications
   a. Push notifications

External Integrations

- Payment Gateways

Data Layer

1. Relational Database
   a. Users
   b. Orders
   c. Products
   d. Transactions
2. File Storage
   a. Product images