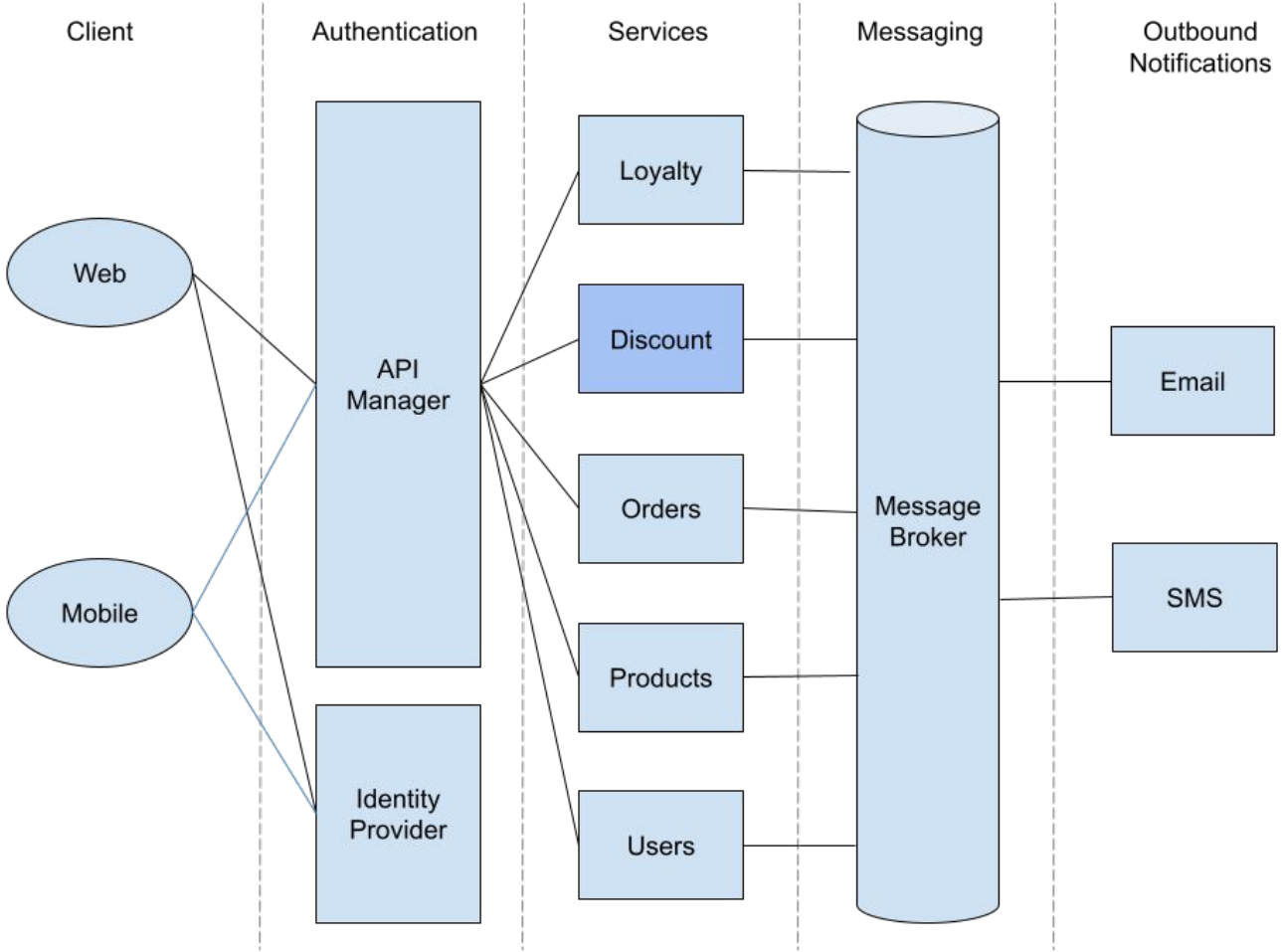
Discount Code Service

System Design

Design Diagram


Client
Authentication
Services
Messaging
Outbound Notifications
Web
Mobile
API Manager
Identity Provider
Loyalty
Discount
Orders
Products
Users
Message Broker
Email
SMS

Design Diagram Services

- **Users**
  - Sellers - Brand portal (brand information and users)
  - Buyers (user profile)
- **Products**
  - Products information
  - Inventory
- **Orders**
  - Orders
  - Order trail
  - Payment checkout
- **Discount**
  - Code generation
  - Code management
- **Loyalty**
  - Campaign
  - Points

Discount Code Service

- Service is initiated with the size of the discount code.
- Scheduler runs during the least used hours of the service (at midnight) to create set of unique discount codes. Each day buffer of 5000 codes will be ready to pick (does not necessarily create 5000 codes each day).
- When a brand requests to create set of codes to be generated, will pull from already created list.