

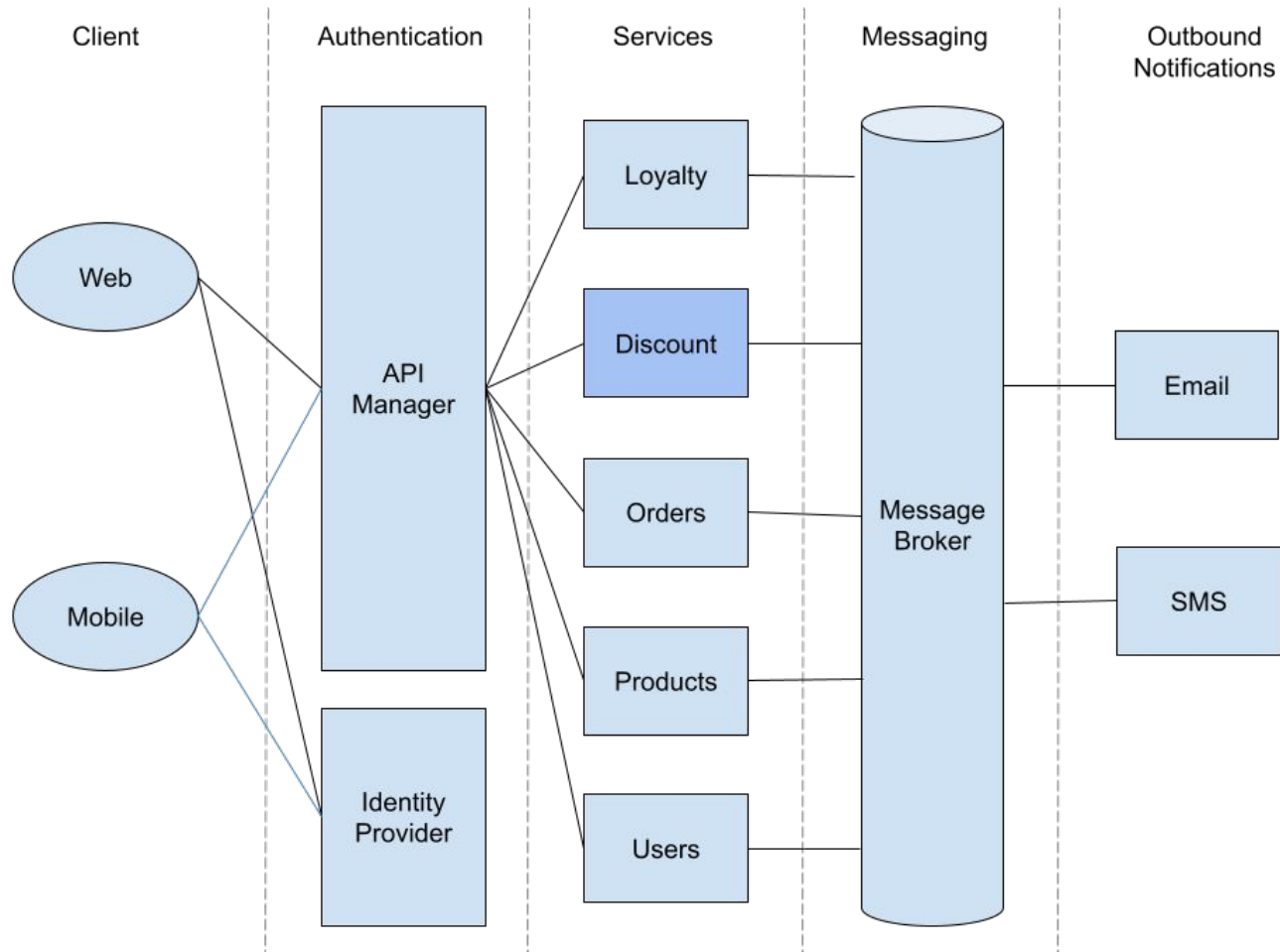


# **Discount Code Service**

**System Design**



# Design Diagram



# 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.
- The number of codes to be generated will be decided based on the number of codes used on the previous day. (ex: If the number of used codes are 100 today, 200 codes will be generated for tomorrow).
- When a brand requests to create set of codes from the service, it will pull from the already created list and send.

## Cont'd

- When the discount code is requested by the service, the next available code will be sent back while keeping the information of the requestor.
- This event information will be then sent to persistent message broker, to be consumed by Loyalty Programme service.