

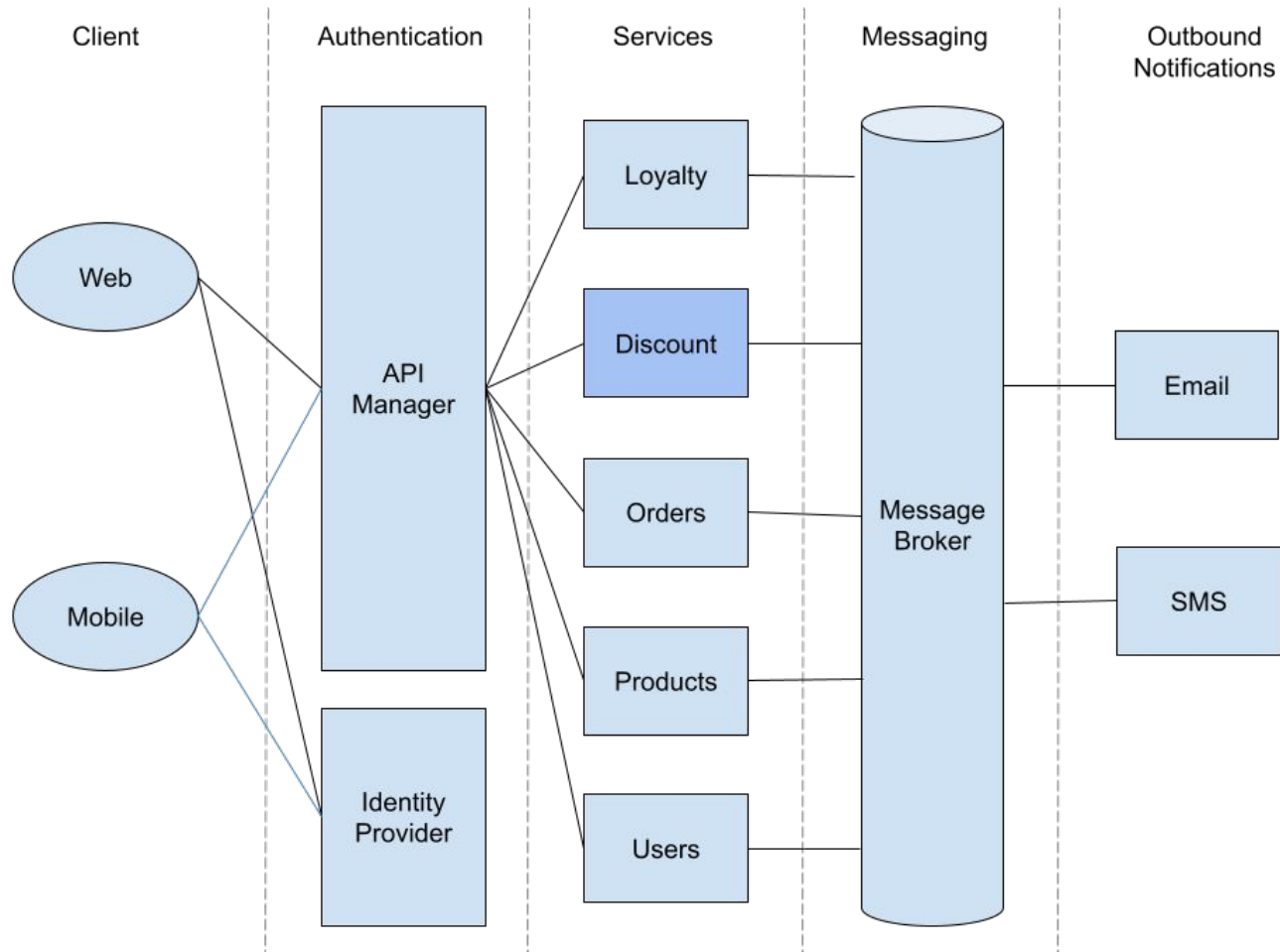


Discount Code Service

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. Each day buffer of 5000 codes will be ready to pick (does not necessarily create 5000 codes each day).
- Idea behind 5000 is that it is expected to within the day or until next scheduler run, 5000 codes will be sufficient. This number expected to be updated each day or each turn where scheduler run.
- When a brand requests to create set of codes to be generated, will pull from already created list.

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

Discount Code Service..