Multiple Vendors for a particular service: V1, V2, V3

Cost of each vendor: C1, C2, C3

Example: SMS Gateway, or internal SMS Delivery Service

Goal: To always send the SMS on the request by any downstream service

Flow after the SMS Service receives a SEND SMS request:

1. Payload validation

2. Choose Best Vendor

3. Send the SMS

Parameters to choose the best vendor:

1. Cost

2. latency

3. Uptime

Problem statement: SMS Service needs to guarantee the delivery of an sms

while choosing the best vendor at all times.







