Service Layer:

Include: RabbitTemplate, Comment Client, Post Client, Exchange & Routing Key

+ getPost
+ getAllPosts
+ getPostByPosterName
+ updatePost
+ deletePost

+ buildViewModelPost

+ sendCommentsToQueue
+ createPostsWithComments (comment has Post ID)

Model:

Comment - g/s, e/h, string
Post - g/s, e/h, string
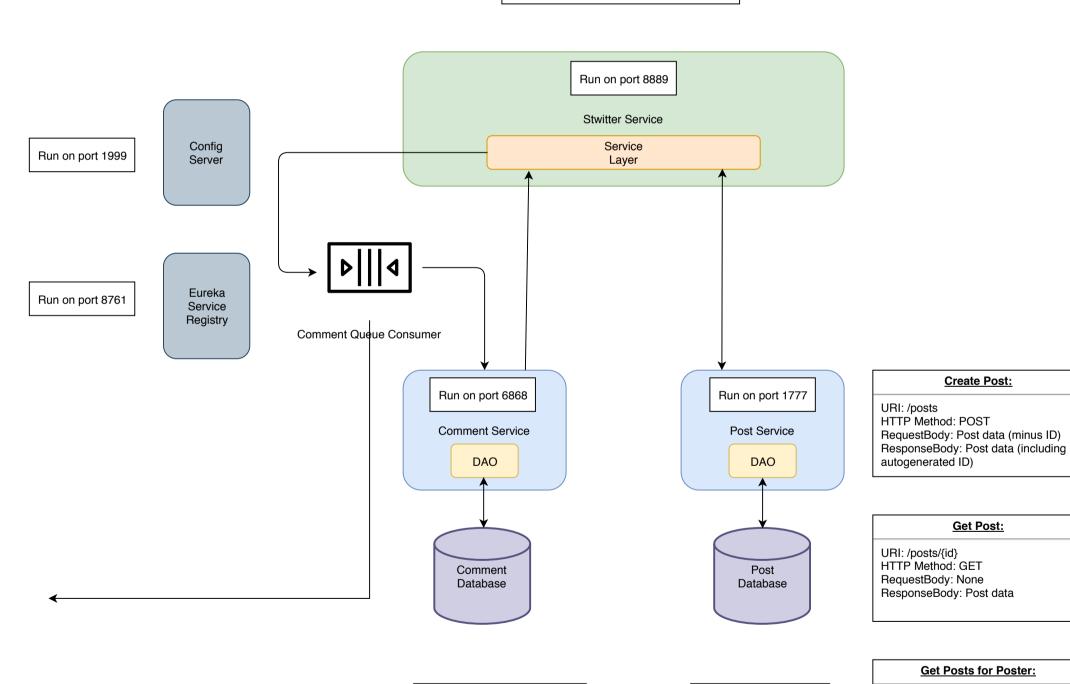Post View Model

Controller:

Stwitter Controller:
Cached requests, enable Refresh

Controller Exception Handler:
 Throw main exceptions

Feign Client:

Comment Client - comment routes

Post Client - post routes

Run on port 8889

Stwitter Service

Service
Layer

Run on port 1999

Config
Server

Run on port 8761

Eureka
Service
Registry

Comment Queue Consumer

Requires:

+ AMQP
+ Jackson Converter
+ Eureka Client
+ Feign

Run on port 6868

Comment Service

DAO

Run on port 1777

Post Service

DAO

Create Post:

URI: /posts
HTTP Method: POST
RequestBody: Post data (minus ID)
ResponseBody: Post data (including autogenerated ID)

Get Post:

URI: /posts/{id}
HTTP Method: GET
RequestBody: None
ResponseBody: Post data

Util:

Feign: Comment Client

Messages: Comment

Comment
Database

Post
Database

Get Posts for Poster:

URI: /posts/user/{poster_name}
HTTP Method: GET
RequestBody: None
ResponseBody: Array of Post data

Message Listener:

Feign: Comment Client
Queue: Created or Updated
Messages: Comment

Comment: int (comment ID)

int: post ID
String: commenter name
LocalDate: comment date
String: comment content

Post: int (post ID)

String: post content
LocalDate: post date
String: poster name
List<String>: comments

Comment CRUD:

URI: /comment
HTTP Method: POST, GET, PUT, DELETE