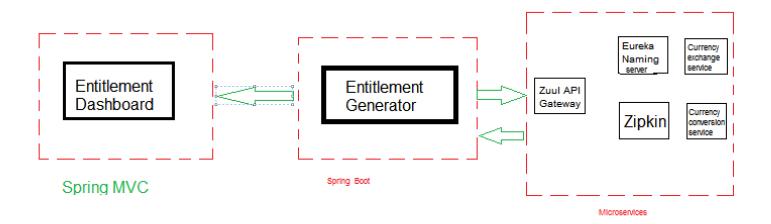
## **Overall Architecture**



## **Currency Conversion Microservice (Part 3)**

This is third part (microservices) of above. This project consists of 5 applications interacting with each other to support microservices architecture and perform core task of currency conversion. Below is the description of all applications:

- 1. Currency exchange service: This application returns the exchange rate for given currencies passed into it. It uses
  - a h2 in memory database to store the conversion rates.
  - - - 🕶 🔠 com.bjb.microservices.currencyexchangeservice
        - > 🛭 Currency Exchange Controller. java
        - › D CurrencyExchangeServiceApplication.java
        - > ExchangeValue.java
        - Exchange Values Repository.java
    - > # crc/main/rocources
- 2. Currency Conversion Service: This application returns the converted amount in the given currency by fetching the conversion rate from currency exchange service.
  - - - ▼ # > com.bjb.microservices.currencyconversionserv
        - CurrencyConversionBean.java
        - CurrencyConversionController.java

\_ . . .

3.	Eureka Naming Server: All the services and their instances are running.	e registered	in this server to	check the	services
	→ ➡ netflix-eureka-naming-server				
	# com.bjb.microservices.netflixeurekanamingserve	1			
	› D NetflixEurekaNamingServerApplication.java				
	✓				
	application.properties				
4.	Zuul API Gateway: This application act as a liaison between services. Services call other services through Zuul API				
	gateway. For this project, logging	is	achieved	via	Zuul.
	→   iii netflix-zuul-api-gateway-server  iii netflix-api-gateway-server  iii netflix-api-gateway-server				
	→    B src/main/java				
	→   ⊕ com.bjb.microservices.netflixzuulapigatewayserver				
	› D NetflixZuulApiGatewayServerApplication.java				
	>				

5. Zipkin: It helps to track request that came to the project & record the services and their instances through which request passed. It tracks it via the messages sent to it via RabbitMQ.

> # src/main/resources

> 🛎 src/test/java