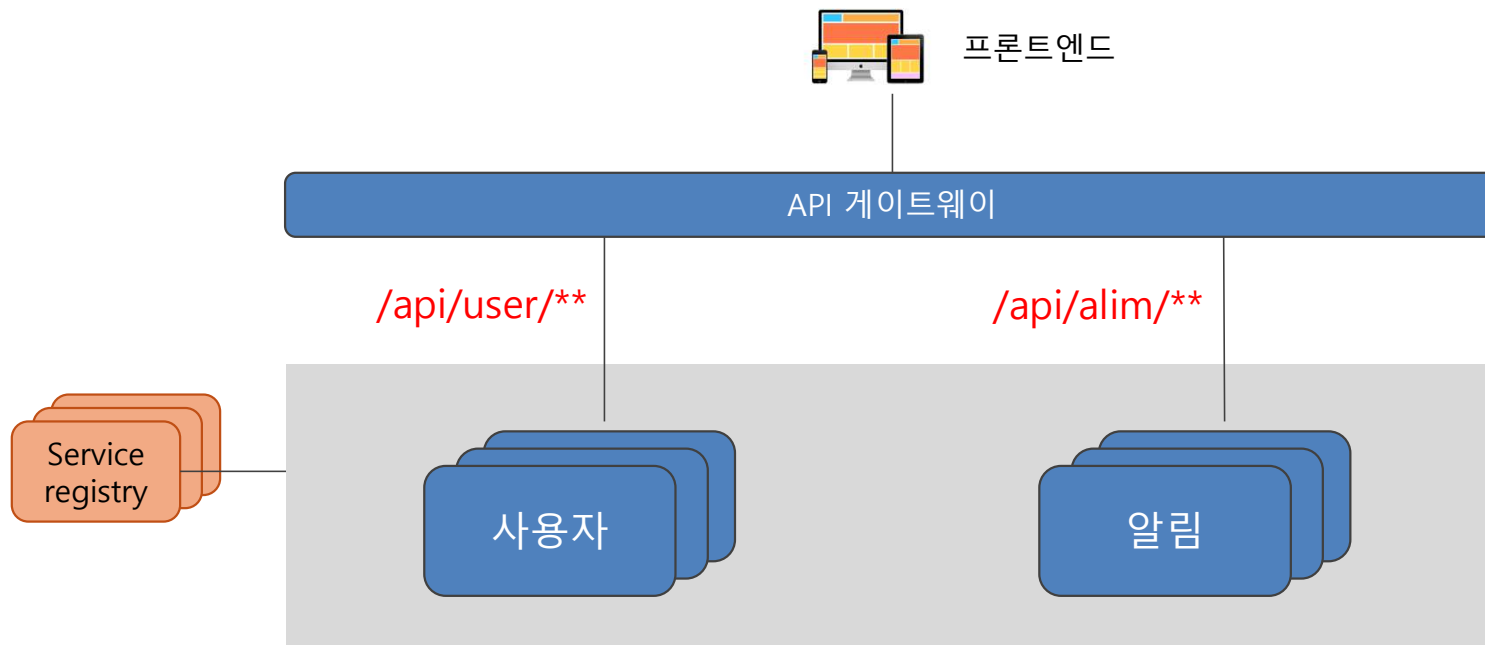


# API Gateway 적용



API Gateway를 통해  
각 서비스에 라우팅이 되도록 만들어보자.

# 프로젝트 생성 – Gateway project

<https://start.spring.io/> 접속



## Project

☒ Gradle - Groovy ☐ Gradle - Kotlin ☒ Java ☐ Kotlin ☐ Groovy  
☐ Maven

## Spring Boot

☐ 4.0.0 (SNAPSHOT) ☐ 3.5.1 (SNAPSHOT) ☒ 3.5.0 ☐ 3.4.7 (SNAPSHOT)  
☐ 3.4.6 ☐ 3.3.13 (SNAPSHOT) ☐ 3.3.12

## Project Metadata

Group

Artifact

Name

Description

Package name

Packaging ☒ Jar ☐ War

Java ☐ 24 ☐ 21 ☒ 17

## Dependencies

ADD DEPENDENCIES... CTRL + B

### Spring Web WEB

Build web, including RESTful, applications using Spring MVC. Uses Apache Tomcat as the default embedded container.

### Gateway SPRING CLOUD ROUTING

Provides a simple, yet effective way to route to APIs in Servlet-based applications. Provides cross-cutting concerns to those APIs such as security, monitoring/metrics, and resiliency.

### Eureka Discovery Client SPRING CLOUD DISCOVERY

A REST based service for locating services for the purpose of load balancing and failover of middle-tier servers.

### Cloud LoadBalancer SPRING CLOUD ROUTING

Client-side load-balancing with Spring Cloud LoadBalancer.

### Lombok DEVELOPER TOOLS

Java annotation library which helps to reduce boilerplate code.

## Gateway 프로젝트 설정

```
+ eureka
+ api gateway    eureka    fetch
```

```
=>      , api gateway    eureka    "    "
```

```
spring:
  application:
    name: api-gateway
```

application.yml

```
server:
  port: 8080

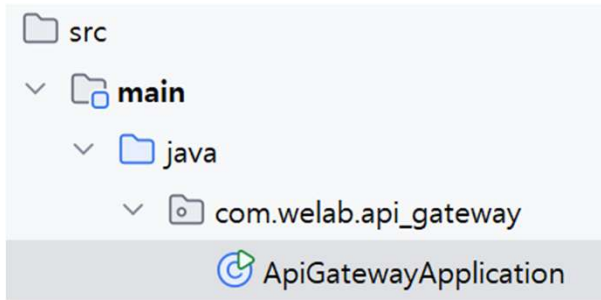
eureka:
  instance:
    prefer-ip-address: true
  client:
    register-with-eureka: true
    fetch-registry: true
    serviceUrl:
      defaultZone: http://localhost:8761/eureka/

spring:
  cloud:
    gateway:
      mvc:
        routes: # 라우팅 설정
          - id: backend-user
            predicates: # 라우팅 조건
              - Path=/api/user/**
            uri: lb://backend-user
          - id: backend-alim
            predicates: # 라우팅 조건
              - Path=/api/alim/**
            uri: lb://backend-alim
```

eureka에 등록된 서비스 이름과 동일해야 함

application-local.yml

# Gateway 프로젝트 코드 작성



```
@EnableDiscoveryClient (Eureka 에 서비스로 등록)
@SpringBootApplication
public class ApiGatewayApplication {

    public static void main(String[] args) {
        SpringApplication.run(ApiGatewayApplication.class, args);
    }
}
```