

# Documentación de prueba técnica SUKASA

## Herramientas y librerías utilizadas

- Springboot
- Lombok
- Jackson
- Mediatr
- H2Database
- Swagger

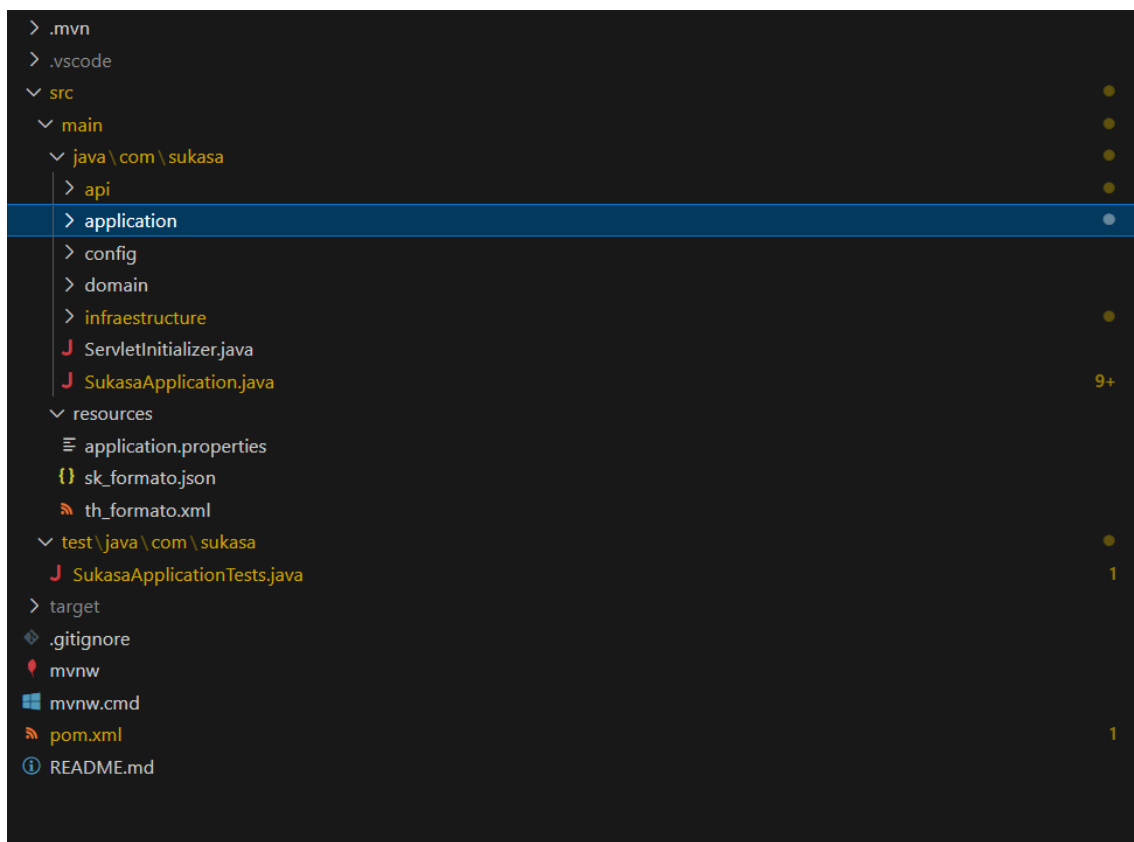
## IDE

- Visual Studio Code

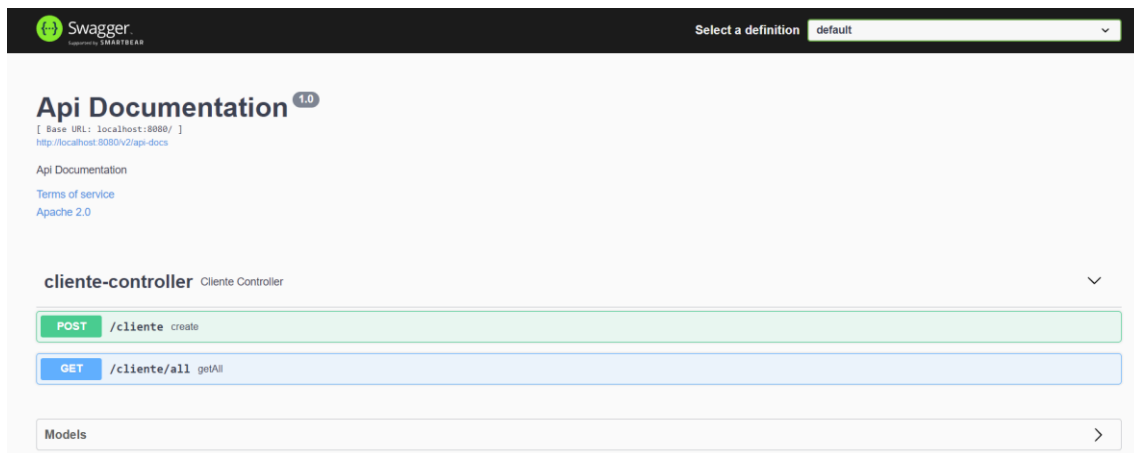
## Arquitectura

- Hexagonal (Puertos y adaptadores)

## Estructura del proyecto



## Servicios documentados en Swagger



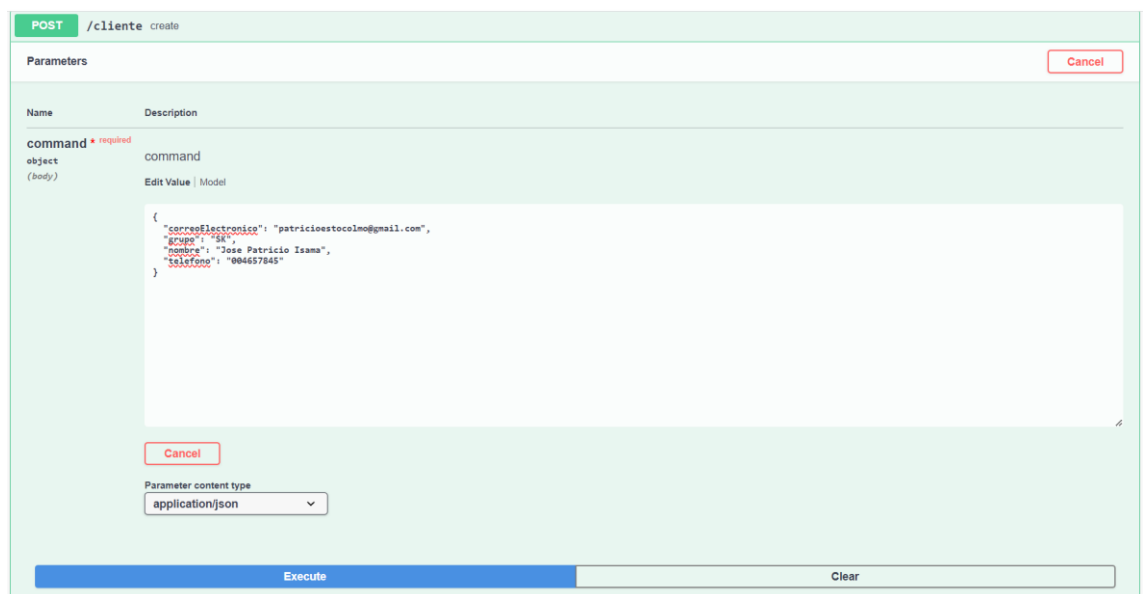
## Casos de uso

### 1. Registro exitoso

Los datos de ingreso tienen la siguiente estructura:

```
{
  "correoElectronico": "patricioestocolmo@gmail.com",
  "grupo": "SK",
  "nombre": "Jose Patricio Isama",
  "telefono": "004657845"
}
```

NOTA: El campo **grupo** debe ser **SK** o **TH**



Curl

```
curl -X POST "http://localhost:8080/cliente" -H "accept: */*" -H "Content-Type: application/json" -d '{"correoElectronico": "patricioestocolmo@gmail.com", "grupo": "SK", "nombre": "Jose Patricio Isama", "telefono": "004657845"}'
```

Request URL

http://localhost:8080/cliente

Server response

Code Details

201

Response body

```
{
  "mensaje": "El usuario Jose Patricio Isama se ha registrado exitosamente en el grupo SK con el beneficio Descuento!"
}
```

Response headers

```
connection: keep-alive
content-type: application/json
date: Wed 13 Sep 2023 21:32:04 GMT
keep-alive: timeout=60
transfer-encoding: chunked
```

Descargar

## 2. Lista escogida no tiene beneficios disponibles

NOTA: Para probar este caso, primero se debe ocupar todos los beneficios sea de SK o TH (Ejemplo. Registrar 7 usuarios con grupo SK, al octavo intento ya no permitirá registrar ya que no quedan beneficios disponibles para ese grupo)

Curl

```
curl -X POST "http://localhost:8080/cliente" -H "accept: */*" -H "Content-Type: application/json" -d '{"correoElectronico": "patricioestocolmo@gmail.com", "grupo": "SK", "nombre": "Jose Patricio Isama", "telefono": "004657845"}'
```

Request URL

http://localhost:8080/cliente

Server response

Code Details

500

Error:

undocumented

Response body

```
{
  "timestamp": "2023-09-13T21:35:10.695+00:00",
  "status": 500,
  "error": "Internal Server Error",
  "trace": "com.sukasa.domain.exceptions.DomainException: Los beneficios del grupo SK ya no están disponibles\r\n\tat com.sukasa.domain.services.validations.ValidateReservationServiceHandler.handle(ValidateReservationServiceHandler.java:269)\r\n\tat io.krats mediator.spring.SpringMediator.dispatch(SpringMediator.kt:94)\r\n\tat com.sukasa.application.commands.CreateClienteCommandHandler.handle(CreateClienteCommandHandler.java:39)\r\n\tat com.sukasa.api.controllers.ClienteController.create(ClientController.java:35)\r\n\tat java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:77)\r\n\tat java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)\r\n\tat java.base/java.lang.reflect.Method.invoke(Method.java:568)\r\n\tat org.springframework.web.method.support.InvocableHandlerMethod.doInvoke(InvocableHandlerMethod.java:205)\r\n\tat org.springframework.web.method.support.InvocableHandlerMethod.invokeForRequest(InvocableHandlerMethod.java:150)\r\n\tat org.springframework.web.servlet.mvc.method.annotation.ServletInvocableHandlerMethod.invokeAndHandle(ServletInvocableHandlerMethod.java:117)\r\n\tat org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.invokeHandlerMethod(RequestMappingHandlerAdapter.java:895)\r\n\tat org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.handleInternal(RequestMappingHandlerAdapter.java:808)\r\n\tat org.springframework.web.servlet.mvc.method.AbstractHandlerMethodAdapter.handle(AbstractHandlerMethodAdapter.java:87)\r\n\tat org.springframework.web.servlet.DispatcherServlet.doDispatch(DispatcherServlet.java:1070)\r\n\tat "
```

## 3. Informe de usuarios registrados



```
Curl
curl -X POST "http://localhost:8080/cliente" -H "accept: */*" -H "Content-Type: application/json" -d '{"correoElectronico": "patricioestocolm@gmail.com", "grupo": "SK", "nombre": "Patricio Estocolm", "telefono": "004657845"}'
```

Request URL

http://localhost:8080/cliente

Server response

Code Details

500 Error:  
Undocumented

Response body

```
{
  "timestamp": "2023-09-13T22:00:53.307+00:00",
  "status": 500,
  "error": "Internal Server Error",
  "trace": "com.sukasa.domain.exceptions.DomainException: El campo nombre no puede estar nulo\r\n\tat com.sukasa.application.commands.CreateClienteCommandHandler.handle(CreateClienteCommandHandler.java:33)\r\n\tat com.sukasa.application.commands.CreateClienteCommandHandler.handle(CreateClienteCommandHandler.java:33)\r\n\tat io.jkratz.mediatordispatch(SpringMediator.kt:63)\r\n\tat com.sukasa.api.controllers.ClienteController.create(ClientController.java:35)\r\n\tat java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:77)\r\n\tat java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)\r\n\tat java.base/java.lang.reflect.Method.invoke(Method.java:568)\r\n\tat org.springframework.method.support.InvocableHandlerMethod.doInvoke(InvocableHandlerMethod.java:205)\r\n\tat org.springframework.method.support.InvocableHandlerMethod.invokeForRequest(InvocableHandlerMethod.java:159)\r\n\tat org.springframework.web.servlet.mvc.method.annotation.ServletInvocableHandlerMethod.invokeAndHandle(ServletInvocableHandlerMethod.java:117)\r\n\tat org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.invokeHandlerMethod(RequestMappingHandlerAdapter.java:895)\r\n\tat org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.handleInternal(RequestMappingHandlerAdapter.java:808)\r\n\tat org.springframework.web.servlet.mvc.method.AbstractHandlerMethodAdapter.handle(AbstractHandlerMethodAdapter.java:87)\r\n\tat org.springframework.web.servlet.DispatcherServlet.doDispatch(DispatcherServlet.java:1070)\r\n\tat org.springframework.web.servlet.DispatcherServlet.doService(DispatcherServlet.java:963)\r\n\tat org.springframework.web.servlet.FrameworkServlet.processRequest(FrameworkServlet.java:1005)\r\n\tat org.springframework.web.servlet.FrameworkServlet.doPost(FrameworkServlet.java:909)\r\n\tat javax.servlet.http.HttpServlet.service(HttpServlet.java:831)\r\n\tat org.springframework.web.servlet.FrameworkServlet.service(FrameworkServlet.java:883)\r\n\tat javax.servlet.http.HttpServlet.service(HttpServlet.java:764)\r\n\tat org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:227)\r\n\tat org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:162)\r\n\tat org.apache.tomcat.websocket.server.WsFilter.doFilter(WsFilter.java:53)\r\n\tat org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:162)\r\n\tat org.springframework.web.filter.CharacterEncodingFilter.doFilterInternal(CharacterEncodingFilter.java:90)\r\n\tat org.springframework.web.filter.CharacterEncodingFilter.doFilter(CharacterEncodingFilter.java:66)"
```

```
Curl
curl -X POST "http://localhost:8080/cliente" -H "accept: */*" -H "Content-Type: application/json" -d '{"correoElectronico": "patricioestocolm@gmail.com", "grupo": "SK", "nombre": "Jose Patricio Isama", "telefono": "004657845"}'
```

Request URL

http://localhost:8080/cliente

Server response

Code Details

500 Error:  
Undocumented

Response body

```
{
  "timestamp": "2023-09-13T22:03:20.353+00:00",
  "status": 500,
  "error": "Internal Server Error",
  "trace": "com.sukasa.domain.exceptions.DomainException: Los beneficios del grupo SK ya no están disponibles\r\n\tat com.sukasa.domain.services.validations.ValidateReservationServiceHandler.handle(ValidateReservationServiceHandler.java:26)\r\n\tat io.jkratz.mediatordispatch(SpringMediator.kt:63)\r\n\tat com.sukasa.application.commands.CreateClienteCommandHandler.handle(CreateClienteCommandHandler.java:33)\r\n\tat io.jkratz.mediatordispatch(SpringMediator.kt:63)\r\n\tat com.sukasa.api.controllers.ClienteController.create(ClientController.java:35)\r\n\tat java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:77)\r\n\tat java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)\r\n\tat java.base/java.lang.reflect.Method.invoke(Method.java:568)\r\n\tat org.springframework.method.support.InvocableHandlerMethod.doInvoke(InvocableHandlerMethod.java:205)\r\n\tat org.springframework.method.support.InvocableHandlerMethod.invokeForRequest(InvocableHandlerMethod.java:159)\r\n\tat org.springframework.web.servlet.mvc.method.annotation.ServletInvocableHandlerMethod.invokeAndHandle(ServletInvocableHandlerMethod.java:117)\r\n\tat org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.invokeHandlerMethod(RequestMappingHandlerAdapter.java:895)\r\n\tat org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.handleInternal(RequestMappingHandlerAdapter.java:808)\r\n\tat org.springframework.web.servlet.mvc.method.AbstractHandlerMethodAdapter.handle(AbstractHandlerMethodAdapter.java:87)\r\n\tat org.springframework.web.servlet.DispatcherServlet.doDispatch(DispatcherServlet.java:1070)\r\n\tat org.springframework.web.servlet.DispatcherServlet.doService(DispatcherServlet.java:963)\r\n\tat org.springframework.web.servlet.FrameworkServlet.processRequest(FrameworkServlet.java:1005)\r\n\tat org.springframework.web.servlet.FrameworkServlet.doPost(FrameworkServlet.java:909)\r\n\tat javax.servlet.http.HttpServlet.service(HttpServlet.java:831)\r\n\tat org.springframework.web.servlet.FrameworkServlet.service(FrameworkServlet.java:883)\r\n\tat javax.servlet.http.HttpServlet.service(HttpServlet.java:764)\r\n\tat org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:227)\r\n\tat org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:162)\r\n\tat org.apache.tomcat.websocket.server.WsFilter.doFilter(WsFilter.java:53)\r\n\tat org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:162)\r\n\tat org.springframework.web.filter.CharacterEncodingFilter.doFilterInternal(CharacterEncodingFilter.java:90)\r\n\tat org.springframework.web.filter.CharacterEncodingFilter.doFilter(CharacterEncodingFilter.java:66)"
```

- Debe leer la información de los beneficios de los archivos compartidos

La lectura de los archivos XML y JSON, se lo realiza al cargar la aplicación. Lee los datos de cada archivo y se inserta a una tabla que se guarda en memoria temporal para posteriormente ser manipulados.

```
tations {5.1.2.Final}
2023-09-13 17:07:17.575 INFO 29756 --- [ restartedMain] org.hibernate.dialect.Dialect : HHH000400: Using dialect: org.hiber
nate.dialect.H2Dialect
2023-09-13 17:07:18.033 INFO 29756 --- [ restartedMain] o.h.e.t.j.p.i.JtaPlatformInitiator : HHH000490: Using JtaPlatform implem
entation: [org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]
2023-09-13 17:07:18.039 INFO 29756 --- [ restartedMain] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactor
y for persistence unit 'default'
2023-09-13 17:07:18.554 WARN 29756 --- [ restartedMain] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled
by default. Therefore, database queries may be performed during view rendering. Explicitly configure spring.jpa.open-in-view to disable
this warning
2023-09-13 17:07:18.765 INFO 29756 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on por
t 35729
2023-09-13 17:07:18.951 INFO 29756 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (ht
tp) with context path ''
2023-09-13 17:07:19.123 INFO 29756 --- [ restartedMain] com.sukasa.SukasaApplication : Started SukasaApplication in 3.983
seconds (JVM running for 4.503)
2023-09-13 17:07:19.126 INFO 29756 --- [ restartedMain] com.sukasa.SukasaApplication : Cargando archivos JSON y XML...
2023-09-13 17:07:19.414 INFO 29756 --- [ restartedMain] com.sukasa.SukasaApplication : Datos cargados exitosamente.
```

## Código para lectura de archivos

```
public List<BeneficioModel> leerArchivoXML() throws JAXBException, IOException {
    ClassPathResource resource = new ClassPathResource("th_formato.xml");
    InputStream inputStream = resource.getInputStream();

    JAXBContext context = JAXBContext.newInstance(ThFormato.class);
    Unmarshaller unmarshaller = context.createUnmarshaller();

    ThFormato thFormato = (ThFormato) unmarshaller.unmarshal(inputStream);
    ArrayList<BeneficioModel> list= new ArrayList<>();
    BeneficioModel model;
    for (var item : thFormato.getBeneficios()) {
        model= new BeneficioModel();
        model.setNombre(item);
        model.setEstado(estados:true);
        model.setTipo(GrupoEnum.TH.getTipo());
        list.add( model);
    }

    inputStream.close();
    return list;
}
```

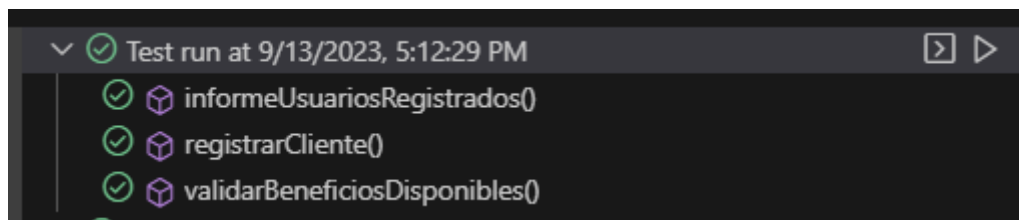
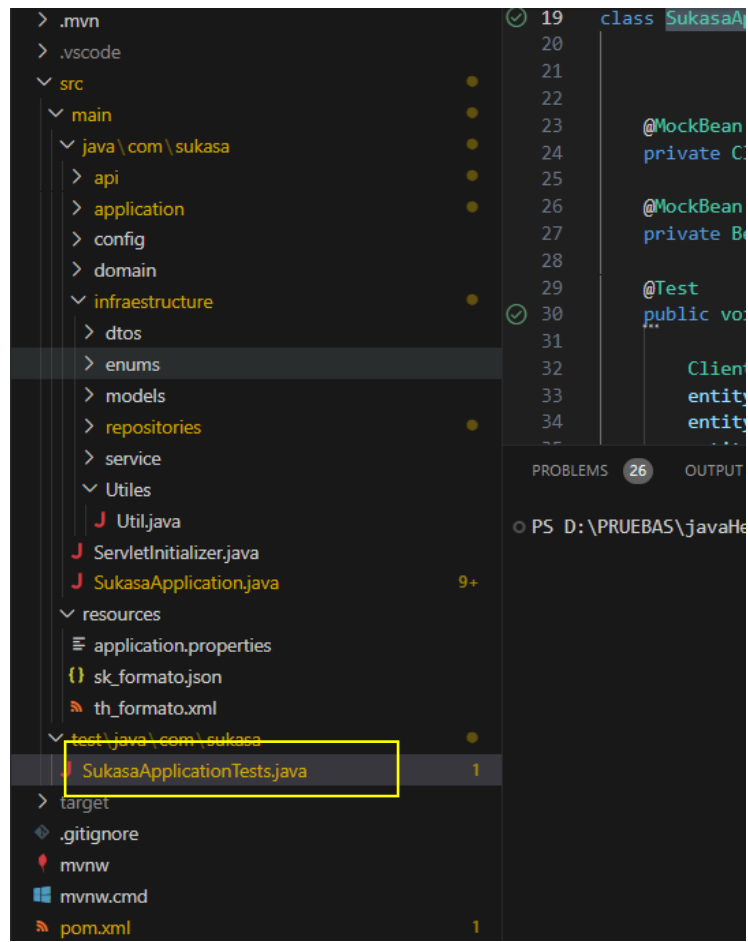
```
private ObjectMapper objectMapper = new ObjectMapper();

public List<BeneficioModel> leerArchivoJSON() {
    ArrayList<BeneficioModel> list= new ArrayList<>();
    try {
        Resource resource = new ClassPathResource("sk_formato.json");
        sk_formatoModel object = objectMapper.readValue(resource.getInputStream(), sk_formatoModel.class);

        BeneficioModel model;

        for (var item : object.getSk_formato()) {
            model= new BeneficioModel();
            model.setNombre(item.getBeneficio());
            model.setEstado(estados:true);
            model.setTipo(GrupoEnum.SK.getTipo());
            list.add( model);
        }
        return list;
    } catch (Exception e) {
        return list;
    }
}
```

## Pruebas unitarias



## Ejecución

Ejecutar la clase `SukasaApplication.java`

Link a la documentación con Swagger: <http://localhost:8080/swagger-ui/index.html>