INGENIERÍA DE SOFTWARE

PARCIAL II

Ingeniería de Software y Sistemas Computacionales

Quinto Semestre

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ESTUDIANTE

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Tabla de contenido

Firma del método

App.java

```java
package com.edu.mx.lasalle.oaxaca.servicio_aeropuerto.models;

import jakarta.persistence.Entity;
import jakarta.persistence.GeneratedValue;
import jakarta.persistence.GenerationType;
import jakarta.persistence.Id;
import jakarta.persistence.JoinColumn;
import jakarta.persistence.JoinTable;
import jakarta.persistence.ManyToMany;

import java.util.Set;

@Entity
public class App {
    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Long id;
    private String nombre;

    public Long getId() {
        return id;
    }

    public void setId(Long id) {
        this.id = id;
    }

    public Set<Device> getDevices() {
        return devices;
    }

    public void setDevices(Set<Device> devices) {
        this.devices = devices;
    }

    private String version;
    private String desarrollador;
    private boolean activo;
    private double rating;

    @ManyToMany
    @JoinTable(name = "app_device", joinColumns = @JoinColumn(name = "app_id"), inverseJoinColumns = @JoinColumn(name = "device_id"))
    private Set<Device> devices;

    public double getRating() {
        return rating;
    }

    public void setRating(double rating) {
        this.rating = rating;
    }

    public boolean isActivo() {
        return activo;
    }

    public void setActivo(boolean activo) {
        this.activo = activo;
    }

    public String getDesarrollador() {
        return desarrollador;
    }

    public void setDesarrollador(String desarrollador) {
        this.desarrollador = desarrollador;
    }

    public String getVersion() {
        return version;
    }

    public void setVersion(String version) {
        this.version = version;
    }

    public String getNombre() {
        return nombre;
    }

    public void setNombre(String nombre) {
        this.nombre = nombre;
    }

    public void setIsActive(boolean activo2) {
        // TODO Auto-generated method stub
        throw new UnsupportedOperationException("Unimplemented method 'setIsActive'");
    }
}
```

Device.java

```java
package com.edu.mx.lasalle.oaxaca.servicio_aeropuerto.models;

import java.util.Set;

import jakarta.persistence.Entity;
import jakarta.persistence.GeneratedValue;
import jakarta.persistence.GenerationType;
import jakarta.persistence.Id;
import jakarta.persistence.ManyToMany;

@Entity
public class Device {
    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Long id;
    private String modelo;
    private String so;
    private int ano;
    private boolean esRoot;
    private String manufacturero;

    @ManyToMany(mappedBy = "devices")
    private Set<App> apps;

    public Long getId() {
        return id;
    }

    public void setId(Long id) {
        this.id = id;
    }

    public String getModelo() {
        return modelo;
    }

    public void setModelo(String modelo) {
        this.modelo = modelo;
    }

    public String getSo() {
        return so;
    }

    public void setSo(String so) {
        this.so = so;
    }

    public int getAno() {
        return ano;
    }

    public void setAno(int ano) {
        this.ano = ano;
    }

    public boolean EsRoot() {
        return esRoot;
    }

    public void setEsRoot(boolean esRoot) {
        this.esRoot = esRoot;
    }

    public String getManufacturero() {
        return manufacturero;
    }

    public void setManufacturero(String manufacturero) {
        this.manufacturero = manufacturero;
    }

    public Set<App> getApps() {
        return apps;
    }

    public void setApps(Set<App> apps) {
        this.apps = apps;
    }
}
```

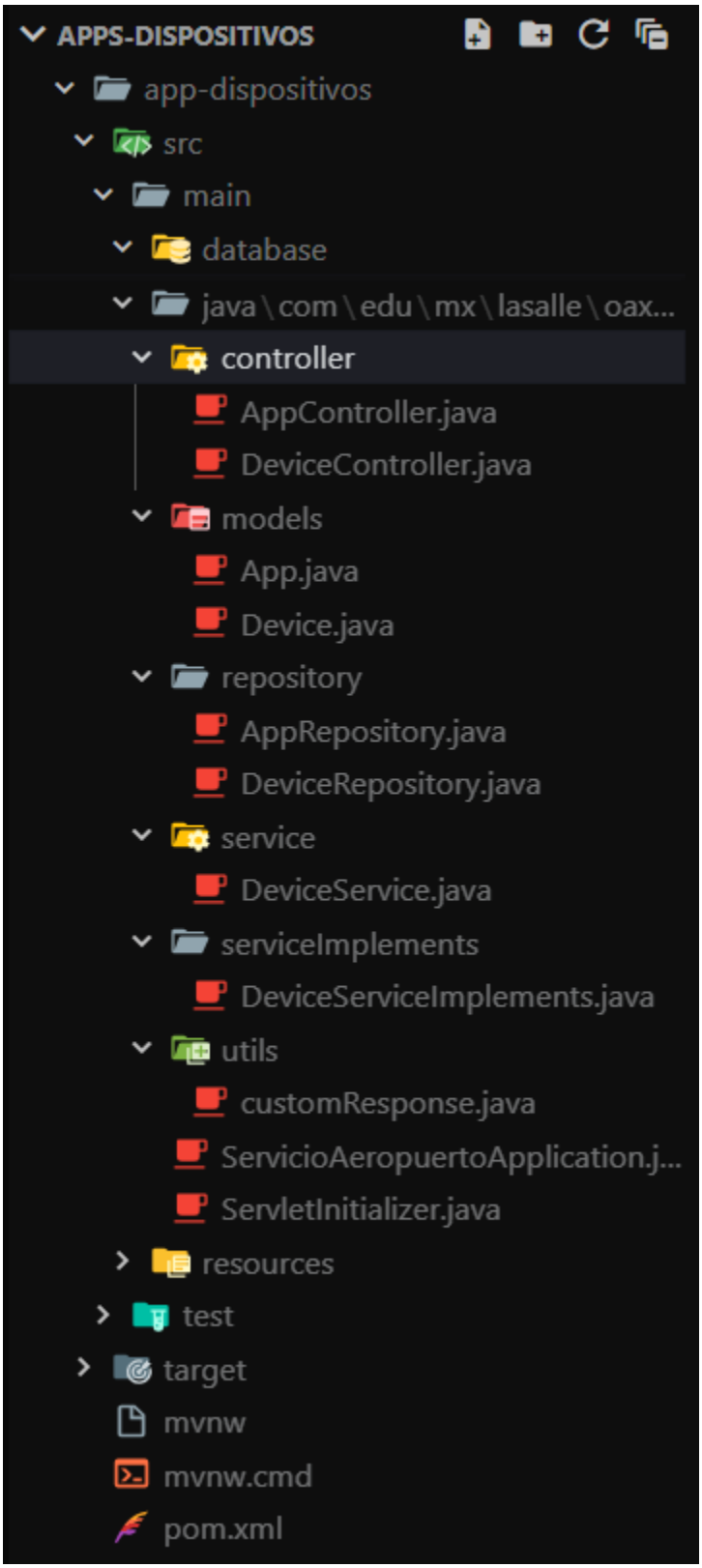
Creación de la base de datos

```sql
CREATE TABLE device (
    id BIGINT GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,
    modelo VARCHAR(255),
    so VARCHAR(255),
    ano INTEGER NOT NULL,
    es_root BOOLEAN NOT NULL,
    manufacturero VARCHAR(255)
);

CREATE TABLE app (
    id BIGINT GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,
    nombre VARCHAR(255),
    version VARCHAR(255),
    desarrollador VARCHAR(255),
    rating FLOAT NOT NULL,
    activo BOOLEAN NOT NULL
);

CREATE TABLE app_device (
    app_id BIGINT NOT NULL,
    device_id BIGINT NOT NULL,
    PRIMARY KEY (app_id, device_id),
    FOREIGN KEY (app_id) REFERENCES app(id),
    FOREIGN KEY (device_id) REFERENCES device(id)
);
```

Estructura del proyecto



Endpoints en Postman