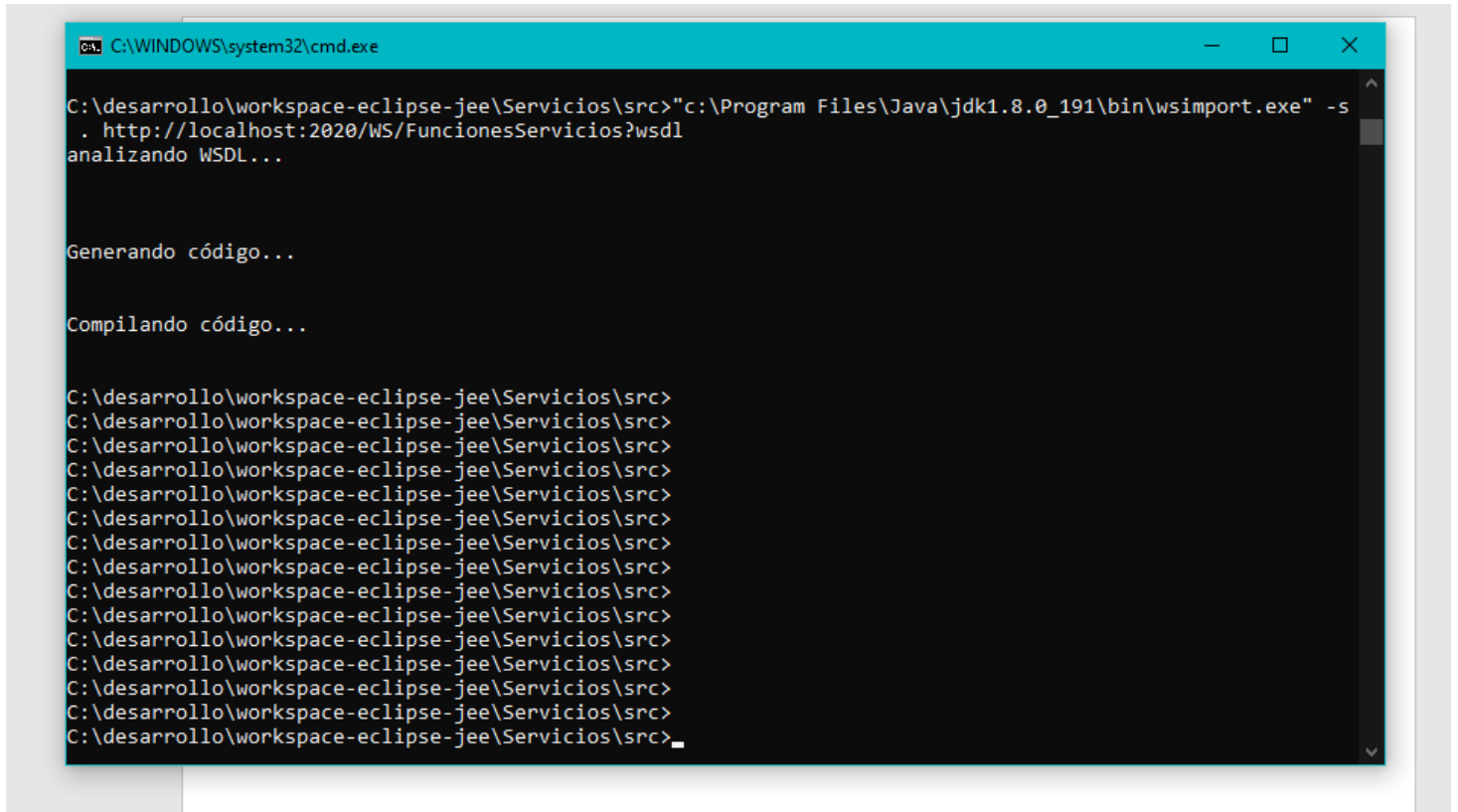

WEB SERVICE

CMD



```
C:\WINDOWS\system32\cmd.exe

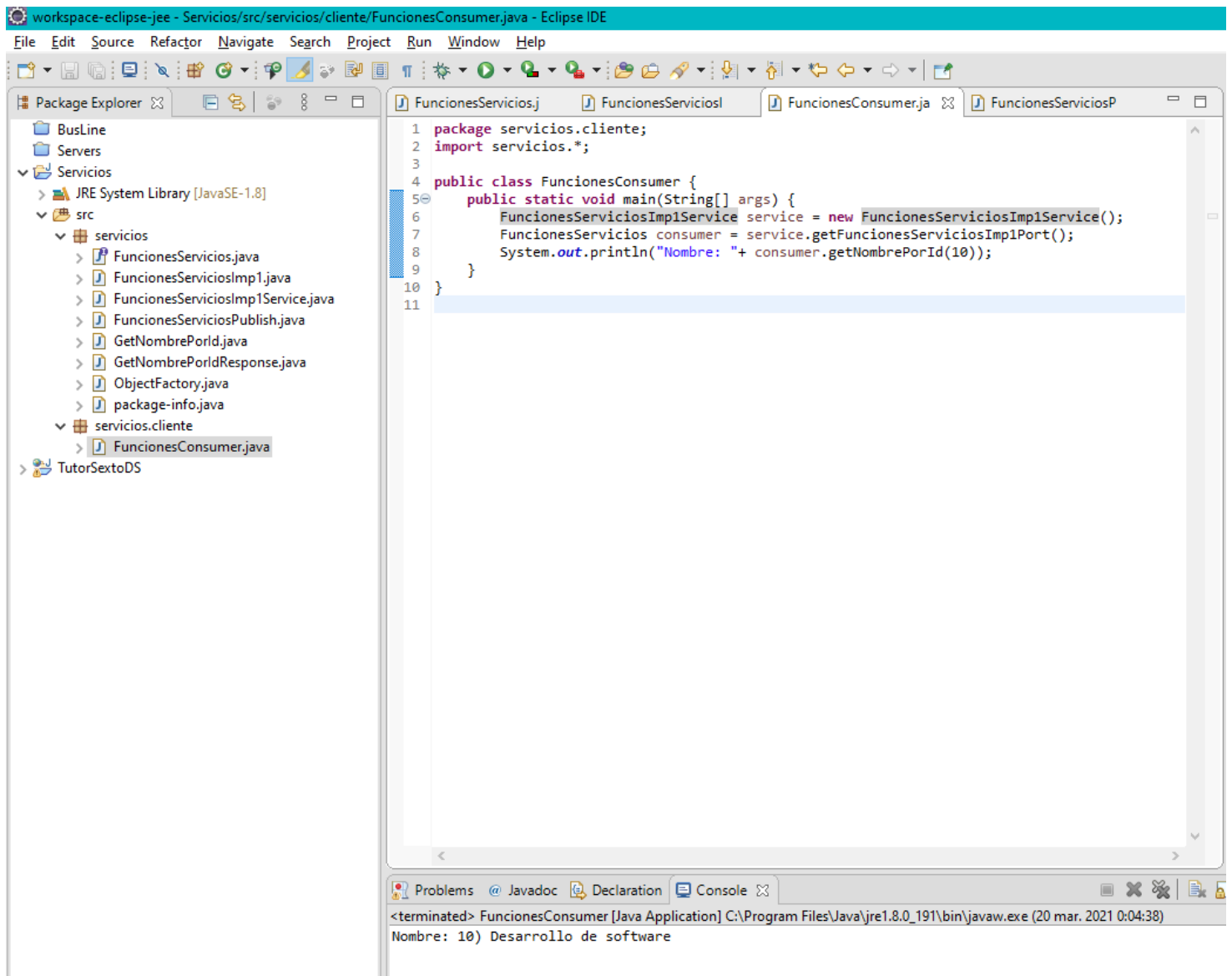
C:\desarrollo\workspace-eclipse-jee\Servicios\src>"c:\Program Files\Java\jdk1.8.0_191\bin\wsimport.exe" -s
. http://localhost:2020/WS/FuncionesServicios?wsdl
analizando WSDL...

Generando código...

Compilando código...

C:\desarrollo\workspace-eclipse-jee\Servicios\src>
C:\desarrollo\workspace-eclipse-jee\Servicios\src>
C:\desarrollo\workspace-eclipse-jee\Servicios\src>
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C:\desarrollo\workspace-eclipse-jee\Servicios\src>
C:\desarrollo\workspace-eclipse-jee\Servicios\src>
C:\desarrollo\workspace-eclipse-jee\Servicios\src>
C:\desarrollo\workspace-eclipse-jee\Servicios\src>
```

Eclipse IDE



REACT API REST CAPA DE SERVICIOS Y DATOS

Estructura del proyecto y ejecución en consola

The screenshot shows the Visual Studio Code editor with the file `server.js` open. The file contains the following code:

```
9 // parse requests of content-type - application/json
10 app.use(bodyParser.json());
11 //parsear peticiones de content-type a application/x-www-form-urlencoded
12 app.use(bodyParser.urlencoded({ extended: true }));
13 //route simple
14 app.get("/", (req, res) => {
15   res.json({ message: "Bienvenidos, aplicación iniciada" });
16 });
17 require("./routes/lhioerp.routes")(app);
18 //asignar el puerto para escuchar solicitudes
19 const PORT = process.env.PORT || 8080;
20 app.listen(PORT, () => {
21   console.log("El servidor esta ejecutandose en el puerto ${PORT}");
22 });
23
24 const db = require("./models");
25 db.sequelize.sync({ force: true }).then(() => {
26   console.log("Eliminar y sincronizar db");
27 });
28
```

The terminal output shows the following messages:

```
$ node server.js
(node:9660) [SEQUELIZE0004] DeprecationWarning: A boolean value was passed to options.operatorsAliases. This is a no-op with v5 and should be removed.
El servidor esta ejecutandose en el puerto 8080
Executing (default): DROP TABLE IF EXISTS "lhioerps" CASCADE;
Executing (default): DROP TABLE IF EXISTS "lhioerps" CASCADE;
Executing (default): CREATE TABLE IF NOT EXISTS "lhioerps" ("id" SERIAL, "title" VARCHAR(255), "description" VARCHAR(255), "published" BOOLEAN, "createdAt"
TIMESTAMP WITH TIME ZONE NOT NULL, "updatedAt" TIMESTAMP WITH TIME ZONE NOT NULL, PRIMARY KEY ("id"));
Executing (default): SELECT i.relname AS name, ix.indisprimary AS primary, ix.indisunique AS unique, ix.indkey AS indkey, array_agg(a.attname) AS column_names,
array_agg(a.attname) AS column_names, pg_get_indexdef(ix.indexrelid) AS definition FROM pg_class t, pg_class i, pg_index ix, pg_attribute a WHERE t.oid = i
x.indrelid AND i.oid = ix.indexrelid AND a.attrelid = t.oid AND t.relkind = 'r' and t.relname = 'lhioerps' GROUP BY i.relname, ix.indexrelid, ix.indisprimary,
ix.indisunique, ix.indkey ORDER BY i.relname;
Eliminar y sincronizar db
```

INSERTAR DATOS

The screenshot shows the Visual Studio Code editor with the REST client open. The REST client is configured to send a POST request to `http://localhost:8080/api/lhioerp` with the following content:

```
1 POST http://localhost:8080/api/lhioerp HTTP/1.1
2 content-type: application/json
3
4 {
5   "title": "uno",
6   "description": "descripcion uno"
7 }
8
```

The response is shown in the right pane:

```
1 HTTP/1.1 200 OK
2 X-Powered-By: Express
3 Access-Control-Allow-Origin: *
4 Content-Type: application/json; charset=utf-8
5 Content-Length: 150
6 ETag: W/"96-U7V0EJMCvGlnQqVJILt7AqUeLLY"
7 Date: Sat, 20 Mar 2021 06:13:55 GMT
8 Connection: close
9
10 {
11   "id": 1,
12   "title": "uno",
13   "description": "descripcion uno",
14   "published": false,
15   "updatedAt": "2021-03-20T06:13:55.791Z",
16   "createdAt": "2021-03-20T06:13:55.791Z"
17 }
```

The terminal output shows the following messages:

```
s, array_agg(a.attname) AS column_names, pg_get_indexdef(ix.indexrelid) AS definition FROM pg_class t, pg_class i, pg_index ix, pg_attribute a WHERE t.oid = i
x.indrelid AND i.oid = ix.indexrelid AND a.attrelid = t.oid AND t.relkind = 'r' and t.relname = 'lhioerps' GROUP BY i.relname, ix.indexrelid, ix.indisprimary,
ix.indisunique, ix.indkey ORDER BY i.relname;
Eliminar y sincronizar db
Executing (default): INSERT INTO "lhioerps" ("id","title","description","published","createdAt","updatedAt") VALUES (DEFAULT,$1,$2,$3,$4,$5) RETURNING "id","t
itle","description","published","createdAt","updatedAt";
```

POST_IHIOERP.rest X

REST > POST_IHIOERP.rest > POST /api/lhioerp

Send Request

```
1 POST http://localhost:8080/api/lhioerp HTTP/1.1
2 content-type: application/json
3
4 {
5   "title": "DOS",
6   "description": "descripcion DOS"
7 }
8
```

Response(106ms) X

```
1 HTTP/1.1 200 OK
2 X-Powered-By: Express
3 Access-Control-Allow-Origin: *
4 Content-Type: application/json; charset=utf-8
5 Content-Length: 150
6 ETag: W/"96-roofX7UZBi9ZN7fjfrWknefyJ4Q"
7 Date: Sat, 20 Mar 2021 06:14:23 GMT
8 Connection: close
9
10 {
11   "id": 2,
12   "title": "DOS",
13   "description": "descripcion DOS",
14   "published": false,
15   "updatedAt": "2021-03-20T06:14:23.844Z",
16   "createdAt": "2021-03-20T06:14:23.844Z"
17 }
```

TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE

1: node

```
s, array_agg(a.attname) AS column_names, pg_get_indexdef(ix.indexrelid) AS definition FROM pg_class t, pg_class i, pg_index ix, pg_attribute a WHERE t.oid = i
x.indexrelid AND i.oid = ix.indexrelid AND a.attrelid = t.oid AND t.relkind = 'r' and t.relname = 'lhioerps' GROUP BY i.relname, ix.indexrelid, ix.indisprimary,
ix.indisunique, ix.indkey ORDER BY i.relname;
Eliminar y sincronizar db
Executing (default): INSERT INTO "lhioerps" ("id","title","description","published","createdAt","updatedAt") VALUES (DEFAULT,$1,$2,$3,$4,$5) RETURNING "id","t
itle","description","published","createdAt","updatedAt";
Executing (default): INSERT INTO "lhioerps" ("id","title","description","published","createdAt","updatedAt") VALUES (DEFAULT,$1,$2,$3,$4,$5) RETURNING "id","t
itle","description","published","createdAt","updatedAt";
[]
```

OBTENER TODOS LOS REGISTROS

POST_IHIOERP.rest GET_IHIOERP.rest X

REST > GET_IHIOERP.rest > GET /api/lhioerp

Send Request

```
1 GET http://localhost:8080/api/lhioerp HTTP/1.1
```

Response(177ms) X

```
4 content-type: application/json; charset=utf-8
5 Content-Length: 303
6 ETag: W/"12f-KrYWHlCwxT+G0pWMMR+YS8ya4iAI"
7 Date: Sat, 20 Mar 2021 06:14:57 GMT
8 Connection: close
9
10 [
11   {
12     "id": 1,
13     "title": "uno",
14     "description": "descripcion uno",
15     "published": false,
16     "createdAt": "2021-03-20T06:13:55.791Z",
17     "updatedAt": "2021-03-20T06:13:55.791Z"
18   },
19   {
20     "id": 2,
21     "title": "DOS",
22     "description": "descripcion DOS",
23     "published": false,
24     "createdAt": "2021-03-20T06:14:23.844Z",
25     "updatedAt": "2021-03-20T06:14:23.844Z"
26   }
27 ]
```

TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE

1: node

```
Eliminar y sincronizar db
Executing (default): INSERT INTO "lhioerps" ("id","title","description","published","createdAt","updatedAt") VALUES (DEFAULT,$1,$2,$3,$4,$5) RETURNING "id","t
itle","description","published","createdAt","updatedAt";
Executing (default): INSERT INTO "lhioerps" ("id","title","description","published","createdAt","updatedAt") VALUES (DEFAULT,$1,$2,$3,$4,$5) RETURNING "id","t
itle","description","published","createdAt","updatedAt";
Executing (default): SELECT "id", "title", "description", "published", "createdAt", "updatedAt" FROM "lhioerps" AS "lhioerp";
[]
```

OBTENER POR ID

```
REST > GET_IHIOERP_ID.rest > GET /api/lhioerp/1
Send Request
1 GET http://localhost:8080/api/lhioerp/1 HTTP/1.1

1 HTTP/1.1 200 OK
2 X-Powered-By: Express
3 Access-Control-Allow-Origin: *
4 Content-Type: application/json; charset=utf-8
5 Content-Length: 150
6 ETag: W/"96-X9DWIfD0iyfmGblSuKp7o9bC35w"
7 Date: Sat, 20 Mar 2021 06:22:25 GMT
8 Connection: close
9
10 {
11   "id": 1,
12   "title": "uno",
13   "description": "descripcion uno",
14   "published": false,
15   "createdAt": "2021-03-20T06:13:55.791Z",
16   "updatedAt": "2021-03-20T06:13:55.791Z"
17 }
```

EDITAR REGISTRO

```
PUT_IHIOERP.rest x ... Response(182ms) x
REST > PUT_IHIOERP.rest > PUT /api/lhioerp/1
Send Request
1 PUT http://localhost:8080/api/lhioerp/1 HTTP/1.1
2 content-type: application/json
3
4 {
5   "title": "Uno update",
6   "description": "Descripcion uno update"
7 }

1 HTTP/1.1 200 OK
2 X-Powered-By: Express
3 Access-Control-Allow-Origin: *
4 Content-Type: application/json; charset=utf-8
5 Content-Length: 52
6 ETag: W/"34-VzUvJG2jFQFke6JHX7yCk0w/2KY"
7 Date: Sat, 20 Mar 2021 06:23:13 GMT
8 Connection: close
9
10 {
11   "message": "Lhioerp fue actualizado correctamente."
12 }
```

```
REST > GET_IHIOERP_ID.rest > GET /api/lhioerp/1
Send Request
1 GET http://localhost:8080/api/lhioerp/1 HTTP/1.1

1 HTTP/1.1 200 OK
2 X-Powered-By: Express
3 Access-Control-Allow-Origin: *
4 Content-Type: application/json; charset=utf-8
5 Content-Length: 164
6 ETag: W/"a4-0BiKFr2RxXoTWrOibrfAQUr9vLI"
7 Date: Sat, 20 Mar 2021 06:23:41 GMT
8 Connection: close
9
10 {
11   "id": 1,
12   "title": "Uno update",
13   "description": "Descripcion uno update",
14   "published": false,
15   "createdAt": "2021-03-20T06:13:55.791Z",
16   "updatedAt": "2021-03-20T06:23:13.662Z"
17 }
```

ELIMINAR REGISTRO

```
Send Request
DELETE http://localhost:8080/api/lhioerp/1 HTTP/1.1

1 HTTP/1.1 200 OK
2 X-Powered-By: Express
3 Access-Control-Allow-Origin: *
4 Content-Type: application/json; charset=utf-8
5 Content-Length: 50
6 ETag: W/"32-ATDX0B0QsGQBfSFFNbhgwN9tz0g"
7 Date: Sat, 20 Mar 2021 06:25:07 GMT
8 Connection: close
9
10 {
11   "message": "Lhioerp fue eliminado correctamente!"
12 }
```

```
REST > GET_IHIOERP.rest > GET /api/lhioerp
Send Request
1 GET http://localhost:8080/api/lhioerp HTTP/1.1

1 HTTP/1.1 200 OK
2 X-Powered-By: Express
3 Access-Control-Allow-Origin: *
4 Content-Type: application/json; charset=utf-8
5 Content-Length: 152
6 ETag: W/"98-v50NOrI8LRLY5Rwc599CqmHr388"
7 Date: Sat, 20 Mar 2021 06:25:31 GMT
8 Connection: close
9
10 [
11   {
12     "id": 2,
13     "title": "DOS",
14     "description": "descripcion DOS",
15     "published": false,
16     "createdAt": "2021-03-20T06:14:23.844Z",
17     "updatedAt": "2021-03-20T06:14:23.844Z"
18   }
19 ]
```

REACT API REST CLIENTE

ESTRUCTURA Y EJECUCIÓN DEL PROYECTO

```
src > JS App.js > App > render
1 import React, { Component } from "react";
2 import { Link, Switch, Route } from "react-router-dom";
3 import "bootstrap/dist/css/bootstrap.min.css";
4 import logo from './logo.svg';
5 import './App.css';
6 import AddLhio from "../components/add-lhio.component";
7 import Lhio from "../components/lhio.component";
8 import LhioList from "../components/lhio-list.component";
9 class App extends Component {
10   render() {
11     return (
12       <div>
13         <nav className="navbar navbar-expand navbar-dark bg-dark">
14           <a href="/lhio" className="navbar-brand">
15             bezKoder
16           </a>
17           <div className="navbar-nav mr-auto">
18             <li className="nav-item">
19               <Link to={"/lhio"} className="nav-link">
20                 Lhio
21               </Link>
22             </li>

```

TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE

Victor@VICTOR-POBLETE MINGW64 ~/Documents/8VO_SEMESTRE/SISTEMAS DISTRIBUIDOS/Projects/lhio-erp-client (mast
\$ npm start

> lhio-erp-client@0.1.0 start C:\Users\victo\Documents\8VO_SEMESTRE\SISTEMAS DISTRIBUIDOS\Projects\lhio-erp
Compiled with warnings.

src\App.js
Line 4:8: 'logo' is defined but never used [no-unused-vars](#)

Search for the [keywords](#) to learn more about each warning.

AGREGAR

bezKoder Lhio Add

Titulo

Lagunas

Descripción

Proporción de agua sobre tierra

Enviar

Envio satisfactorio!

Agregar

LISTAR REGISTROS

bezKoder Lhio Add

Search by title

Buscar

Listar

Lagunas

FORMATO DE TRABAJO

Eliminar todo

Porfavor de click sobre un registro...

VER DETALLES

bezKoder Lhio Add

Search by title

Buscar

Listar

Lagunas

FORMATO DE TRABAJO

Eliminar todo

Lhio

Title: Lagunas

Description: Proporción de agua sobre tierra

Status: Pending

Editar

EDITAR

bezKoder Lhio Add

Lhio

Titulo

Lagunas uNO

Description

Proporción de agua sobre tierra

Status:Pending

Publicar

Eliminar

Actualizar

Lhio actualizado exitosamente!

Search by title

Buscar

Listar

Porfavor de click sobre un registro...

FORMATO DE TRABAJO

Lagunas uNO

Eliminar todo

PUBLICAR

Lhio

Titulo

FORMATO DE TRABAJO

Description

Nuevo formato de entrega

Status:Published

Despublicar

Eliminar

Actualizar

ELIMINAR

Lhio

Titulo

FORMATO DE TRABAJO

Description

Nuevo formato de entrega

Status:Published

Despublicar

Eliminar

Actualizar

Search by title

Buscar

Listar

Lagunas uNO

Porfavor de click sobre un registro...

Eliminar todo