

TRABAJO EVALUATIVO

Construcción de un CRM Básico con Express, TypeScript y Prisma

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1 CONFIGURACION DEL ENTORNO :

```
{
  "name": "trabajo",
  "version": "1.0.0",
  "main": "index.js",
  "scripts": {
    "start": "node dist/index.ts",
    "dev": "nodemon src/index.ts"
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "dependencies": {
    "@prisma/client": "^6.6.0",
    "@types/express": "^5.0.1",
    "@types/node": "^22.15.2",
    "body-parser": "^2.2.0",
    "express": "^5.1.0",
    "nodemon": "^3.1.10",
    "prisma": "^6.6.0",
    "trabajo": "file:",
    "ts-node": "^10.9.2",
    "typescript": "^5.8.3"
  },
  "description": ""
}
```

2 CONFIGURAR SERVIDOR LOCAL

```
[nodemon] restarting due to changes...
[nodemon] starting `ts-node src/index.ts`
Bienvenido al servidor en http://localhost:3000
```

3 RUTAS Y PARAMETROS

```
import express, { Request, Response } from 'express';
import bodyParser from 'body-parser';
import { PrismaClient, Stage } from "@prisma/client";

const app = express();
const PORT = 3000;

app.use(bodyParser.json());
app.use(express.json());
const prisma = new PrismaClient()

app.get('/contact', async (req: Request, res: Response) => {
  //const stage = req.query.stage;
  const a = res.header("api_key", "hola")
  console.log(a);
  const contact = await prisma.contact.findMany();
  res.status(200).json({"ms": contact});
});

// Ruta para buscar un contacto por ID
app.get('/contact/:id', async (req: Request, res: Response) => {
  const id = parseInt(req.params.id);
  try {
    const contact = await prisma.contact.findUnique({ where: { id } });
    if (contact) res.json(contact);
    else res.status(404).json({ error: 'Contacto no encontrado.' });
  } catch (error) {
    console.error(error);
    res.status(500).json({ error: 'Error al buscar el contacto.' });
  }
});

// Crear una nueva oportunidad
app.post('/Opportunity', async (req: Request, res: Response) => {
  const { name, description, estimatedValue, currency, stage,
expectedCloseDate, companyId } = req.body;
  try {
    const nuevaOportunidad = await prisma.opportunity.create({
      data: {
```

```

        name,
        description,
        estimatedValue,
        currency,
        stage,
        expectedCloseDate: new Date(expectedCloseDate),
        companyId,
    },
  });
  res.status(201).json(nuevaOportunidad);
} catch (error) {
  console.error(error);
  res.status(500).json({ error: 'Error al crear la oportunidad.' });
}
});

// Listar oportunidades por etapa (stage)
app.get('/listarpor', async (req: Request, res: Response) => {
  const { stage } = req.query;
  try {
    const oportunidades = await prisma.opportunity.findMany({
      where: { stage: stage as Stage },
    });
    res.json(oportunidades);
  } catch (error) {
    res.status(500).json({ error: 'No se pudieron obtener las oportunidades.' });
  }
});

```

5 CONEXIÓN BD

```

# Environment variables declared in this file are automatically made
available to Prisma.
# See the documentation for more detail: https://pris.ly/d/prisma-
schema#accessing-environment-variables-from-the-schema

```

```
# Prisma supports the native connection string format for PostgreSQL, MySQL,
SQLite, SQL Server, MongoDB and CockroachDB.
# See the documentation for all the connection string options:
https://pris.ly/d/connection-strings
```

```
DATABASE_URL="postgresql://postgres:123456@localhost:5432/trabajo?schema=public"
```

- localhost
 - Databases (3)
 - postgres
 - prima
 - Casts
 - Catalogs
 - Event Triggers
 - Extensions
 - Foreign Data Wrappers
 - Languages
 - Publications
 - Schemas (1)
 - public
 - Aggregates
 - Collations
 - Domains
 - FTS Configurations
 - FTS Dictionaries
 - FTS Parsers
 - FTS Templates
 - Foreign Tables
 - Functions
 - Materialized Views
 - Operators
 - Procedures
 - Sequences
 - Tables (5)
 - _prisma_migrations
 - activity
 - company
 - contact
 - Columns (10)
 - Constraints
 - Indexes

Tablas ----

Opportunity

Query

Query History

Scratch Pad

```
1 SELECT * FROM "Opportunity";
```

Data Output

Messages

Graph Visualiser

Notifications

Showing rows: 1 to 1

Page No: 1 of 1

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⏵

⏩

	id [PK] integer	companyId integer	name text	description text	estimatedValue numeric (65,30)	currency "Currency"	stage "Stage"	expectedCloseDate timestamp without time zone (3)	created timestamp
1	3	1	New Software Project	Develop new software for a client	50000.0000000000000000000000000000000000	USD	proposal	2025-06-30 00:00:00	2025-06-30 00:00:00

Contact

Query

Query History

Scratch Pad X

1

SELECT * FROM "Contact";

Data Output

Messages

Notifications

SQL

Showing rows: 1 to 6

Page No: 1 of 1

	id [PK] integer	companyId integer	firstName text	lastName text	email text	phone text	position text	created_at timestamp without time zone (3)	updated_at timestamp without time zone (3)	status *Status
1	1	1	Alice	Johnson	alice@technova.com	123-111-2222	CTO	2025-04-25 13:54:51.745	2025-04-25 13:54:51.745	active
2	2	1	Bob	Martinez	bob@technova.com	123-333-4444	Product Manager	2025-04-25 13:54:51.745	2025-04-25 13:54:51.745	active
3	3	2	Carlos	Ramirez	carlos@greenfields.com	321-111-2222	Operations Head	2025-04-25 13:54:51.745	2025-04-25 13:54:51.745	active
4	4	1	Lucia	Torres	lucia@innovatek.com	555-100-2000	Chief Marketing Officer	2025-04-25 15:17:45.986	2025-04-25 15:17:45.986	active
5	5	1	Daniel	Moreno	daniel@innovatek.com	555-300-4000	Business Analyst	2025-04-25 15:17:45.986	2025-04-25 15:17:45.986	active
6	6	2	Elena	García	elena@bluewave.io	444-500-6000	Head of Engineering	2025-04-25 15:17:45.986	2025-04-25 15:17:45.986	active

6 funcionalidad del orm

Consultar datos

Query Query History

1 `SELECT * FROM "Contact";`

Scratch Pad X

Data Output Messages Notifications

Showing rows: 1 to 6 Page No: 1 of 1

	id [PK] integer	companyId integer	firstName text	lastName text	email text	phone text	position text	created_at timestamp without time zone (3)	updated_at timestamp without time zone (3)	status "Status"
1	1	1	Alice	Johnson	alice@technova.com	123-111-2222	CTO	2025-04-25 13:54:51.745	2025-04-25 13:54:51.745	active
2	2	1	Bob	Martinez	bob@technova.com	123-333-4444	Product Manager	2025-04-25 13:54:51.745	2025-04-25 13:54:51.745	active
3	3	2	Carlos	Ramirez	carlos@greenfields.com	321-111-2222	Operations Head	2025-04-25 13:54:51.745	2025-04-25 13:54:51.745	active
4	4	1	Lucia	Torres	lucia@innovatek.com	555-100-2000	Chief Marketing Officer	2025-04-25 15:17:45.986	2025-04-25 15:17:45.986	active
5	5	1	Daniel	Moreno	daniel@innovatek.com	555-300-4000	Business Analyst	2025-04-25 15:17:45.986	2025-04-25 15:17:45.986	active
6	6	2	Elena	Garcia	elena@bluewave.io	444-500-6000	Head of Engineering	2025-04-25 15:17:45.986	2025-04-25 15:17:45.986	active

Crear oportunidad

Overview POST http://localhost:3000/

http://localhost:3000/contact

POST http://localhost:3000/contact

Params Authorization Headers (9) Body Scripts Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   "id": 5,
3   "companyId": 5,
4   "firstName": "Sophia",
5   "lastName": "Nguyen",
6   "email": "sophia.nguyen@bioclean.com",
7   "phone": "+1-212-777-3333",
8   "position": "R&D Director",
9   "status": "active"
10 }
11
```

Body Cookies Headers (7) Test Results

200 OK · 215 ms · 416 B

HTML Preview Visualize

```
1 Contacto creado: {"id":5,"companyId":5,"firstName":"Sophia","lastName":"Nguyen","email":"sophia.nguyen@bioclean.com","phone":"+1-212-777-3333","position":"R&D Director","status":"active"}
```


Lista de oportunidades

```
Impresión con sangría
[{"id":1,"companyId":5,"name":"Cloud Migration","description":"Move entire infrastructure to AWS cloud.", "estimatedValue": "67800.990000000001", "currency": "COP", "stage": "won", "expectedCloseDate": "2025-10-20T00:00:00.000Z", "created_at": "2025-04-26T03:18:13.298Z", "updated_at": "2025-04-26T03:18:13.298Z"}]
```

Respuestas http

```
app.listen(PORT, () => {
  console.log(`Bienvenido al servidor en http://localhost:${PORT}`);
});
```