

# Project Documentation

Assignment for: Enego Service Pvt. Ltd.

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## 1. Project Overview

This project is a web-based application that allows users to search for company directors by entering the Corporate Identification Number (CIN). It retrieves director details from a MySQL database via a PHP REST API and displays the data on a clean frontend interface.

## 2. Technology Stack

Frontend:	HTML, CSS, JavaScript
Backend:	PHP (REST API)
Database:	MySQL
Hosting:	Local Server (XAMPP)
Protocol:	HTTP / REST

## 3. Database Schema

```
CREATE TABLE companies (  
  id INT(11) NOT NULL AUTO_INCREMENT,  
  cin VARCHAR(21) NOT NULL,  
  company_name VARCHAR(255) NOT NULL,  
  PRIMARY KEY (id),  
  UNIQUE KEY cin (cin)  
);  
  
CREATE TABLE directors (  
  id INT(11) NOT NULL AUTO_INCREMENT,  
  company_id INT(11) NOT NULL,  
  name VARCHAR(255) NOT NULL,  
  email VARCHAR(255) NOT NULL,  
  contact VARCHAR(20) DEFAULT NULL,  
  PRIMARY KEY (id),  
  UNIQUE KEY email (email),  
  KEY company_id (company_id),  
  CONSTRAINT directors_ibfk_1 FOREIGN KEY (company_id) REFERENCES companies (id) ON DELETE CASCADE  
);
```

## 4. Sample Data

```
INSERT INTO companies (cin, company_name) VALUES
```

```
('U12345MH2020PTC123456', 'Sample Company Pvt Ltd');
```

```
INSERT INTO directors (company_id, name, email, contact) VALUES
(1, 'Anil Kumar', 'anil.kumar@sample.com', '+91-9876543210'),
(1, 'Meena Rani', 'meena.rani@sample.com', '+91-9123456789');
```

## 5. API Endpoint

Endpoint: GET /api/company/get\_directors.php?cin=U12345MH2020PTC123456

Success Response:

```
{
  "success": true,
  "directors": [
    {
      "name": "Anil Kumar",
      "email": "anil.kumar@sample.com",
      "contact": "+91-9876543210"
    },
    {
      "name": "Meena Rani",
      "email": "meena.rani@sample.com",
      "contact": "+91-9123456789"
    }
  ]
}
```

Failure Response:

```
{
  "success": false,
  "message": "Company not found."
}
```

## 6. UI & Pages

- index.html: Main UI to search company directors using CIN.
- unauthorized.html: Displays 'Unauthorized Access' error.
- db\_connect.php: Contains database connection logic.
- get\_directors.php: Fetches directors for a given CIN.

## 7. Deployment Notes

- Make sure to configure XAMPP and place the project in 'htdocs'.
- Import the SQL structure and dummy data into MySQL.
- Ensure API endpoints are accessible at localhost.
- Update credentials in db\_connect.php as per your local server.

## 8. Conclusion

This assignment demonstrates effective use of web development technologies to build a complete data lookup system using REST APIs, MySQL integration, and client-side rendering with validation.