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COP4814 – Web Application Development  
World Bank Indicators Project

## ## Overview

This project is an interactive Flask web application that allows users to search and visualize development indicators from the World Bank Indicators API. The application accepts user input for a country and a specific development indicator and returns historical data, displayed both in table format and as a chart.

## ## Features

- Collects user input using a styled HTML form.
- Sends API requests to the World Bank Indicators API using the `requests` library.
- Displays results in a dynamic table and a styled chart using Chart.js.
- Uses Bootstrap for a modern, responsive design.
- Includes error handling and user feedback for failed or invalid requests.
- Dropdown list of common indicators for ease of use.

## ## Technologies Used

- Python 3
- Flask
- HTML/CSS
- Bootstrap 5
- Chart.js
- World Bank API

## ## How to Run

1. Create a virtual environment (if not already done):

```
```bash
python3 -m venv venv
source venv/bin/activate
```
```

2. Install the requirements:

```
```bash
pip install -r requirements.txt
```
```

3. Run the app:

```
```bash
flask run
```
```

4. Open your browser and go to:

```
```
```

`http://127.0.0.1:5000/`  
`\\`

## `## Files Included`

- `- `app.py``: Main Flask application.
- `- `templates/form.html``: Input form page.
- `- `templates/results.html``: Results page with table and chart.
- `- `requirements.txt``: Python package requirements.
- `- `README.md``: Project documentation.