JP ADJADEH

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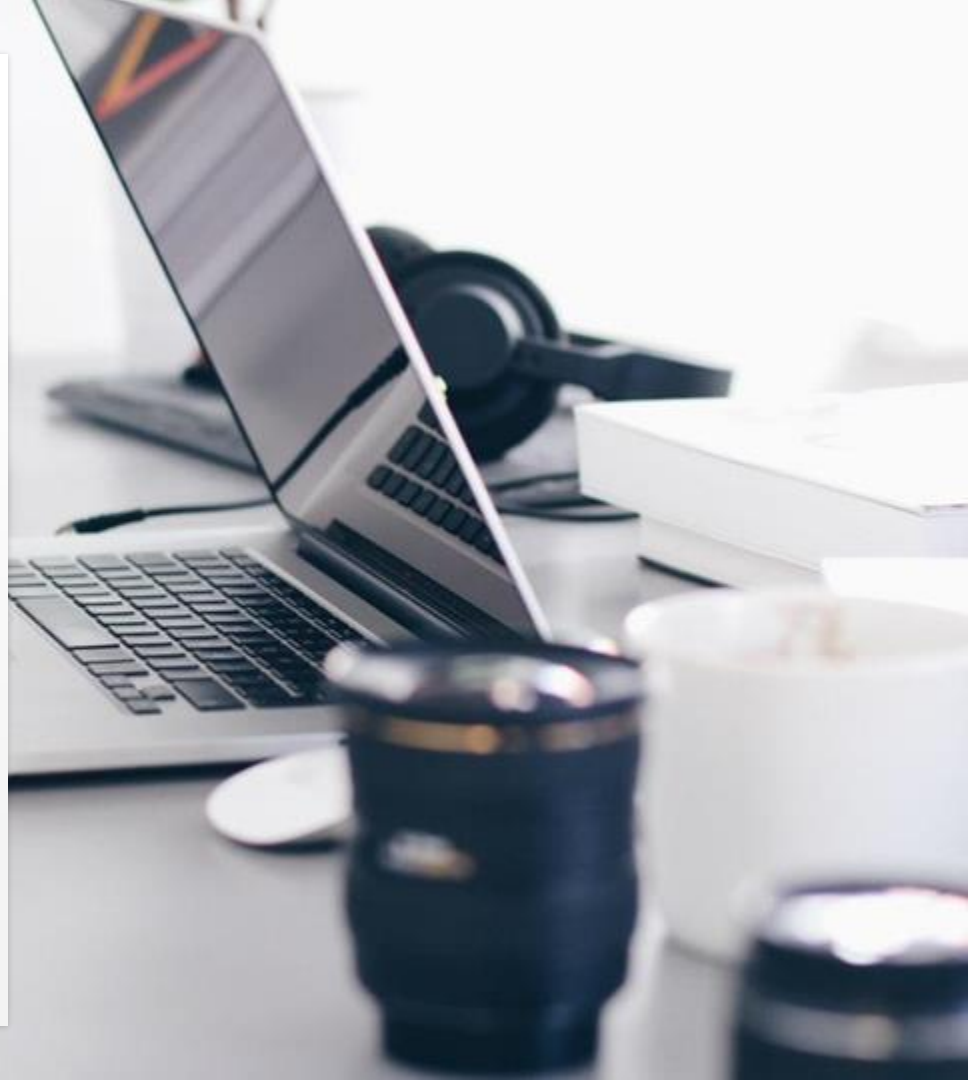

Applications that employ a database system to store and access persistent data

a. Weather forecasting systems

b. Auto insurance

c. Digital maps

Proposed Applications in Political Science

Global Political Stability Index (GPSI)

Purpose

A database system for researchers and policymakers to track, analyze, and compare political stability across different countries based on key indicators like governance, protests, human rights, and elections.

Functions

- **Data Collection**: Stores historical and real-time data on political stability indicators such as corruption, civil unrest, and electoral fairness
- **Comparative Analysis**: Allows users to compare countries or regions based on selected political stability metrics.

Simple Interface Design

- **Home Dashboard**: Displays a world map with stability scores.
- **Search & Filter Panel**: Allows users to select indicators (e.g., democracy index, corruption) and compare countries.
- **Graphical Reports**: Generates time-series graphs showing trends in governance quality.

Proposed Applications in Political Science

Political Party Tracker (PPT)

Purpose

A database-driven application to track and compare the ideologies, policies, and electoral performance of political parties worldwide.

Functions

- **Political Party Database**: Stores party information such as founding date, ideology, leadership, etc.
- **Election Results Analysis**: Integrates past election data to analyze voting trends etc.
- **Policy Comparison**: Allows users to compare party stances on key issues (e.g., economy, foreign policy, healthcare).

Simple Interface Design

- **Search & Filter Bar**: Users can search political parties by country, ideology, or leader.
- **Comparison Panel**: Displays side-by-side comparisons of party ideologies and policies.
- **Election Results Dashboard**: Interactive map showing party performance in national elections.

Proposed Applications in Political Science

Protest and Regime Response Database (PRRD)

Purpose

A research tool that compiles global data on protests, demonstrations, and government responses, helping scholars study regime strategies in managing dissent.

Functions

- **Protest Event Recording**: Logs protest events with details like location, cause, number of participants etc
- **Government Response Analysis**: Categorizes responses (e.g., negotiation, repression, arrests etc).
- **Comparative Study**: Allows researchers to compare how different regime types

Simple Interface Design

- **Event Map & Timeline**: Users can explore an interactive world map showing protests and government responses.
- **Filters & Search Bar**: Allows users to search protests by country, year, or type of response.
- **Country Profile Page**: Provides a summary of a country's protest history and common regime responses.

Tables that might be used to store information on social-network

User Table

Purpose: Stores account details of each user.

Key Fields:

- user ID,
- username,
- emails,
- bio

Posts Table

Purpose: Stores all tweets, posts, or comments.

Key Fields:

- user ID
- content
- timestamp

Likes Table

Purpose: Tracks likes (or upvotes/downvotes).

Key Fields:

- like ID
- user ID
- reaction type
- timestamp.

Things current database system cannot do

A complex idea can be conveyed with just a single still image, namely making it possible to absorb large amounts of data quickly.

A picture is worth a thousand words

A. Handling Unstructured Data Efficiently

B. Privacy-Preserving Data Sharing

C. Understanding media files like humans

Thanks!

Any questions?

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