### Judge Frog:
Comprehensive Human Trafficking Data Search and Analysis

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**Problem**
- The issue of human trafficking has sparked interest from the government, academicians, non-government organizations, and the private sector
- With today’s available resources on human trafficking it is difficult to examine:
  - How interconnected is organized crime with human trafficking in the United States
  - What types of organized crime groups engage in human trafficking
  - The possibility to prevent individuals from engaging in organized crime, and specifically human trafficking

**Solution**
Our project addresses the issues stated in the problem by:
- Creating a comprehensive database to store information on federal human trafficking cases
- Developing tools for administrators to maintain the database
- Developing interface for administrators to maintain users
- Providing a robust search function allowing users to query and filter the database
- Displaying dynamically generated graphs that allow analyses to be performed on these cases

**Database Structure**
- Comprehensive database developed with MySQL
- Stores case information consisting of judge, federal district location, defendant, and victims information
- Each defendant contains information regarding their arrest, charges, sentencing and organized crime involvement
- Database contains multiple tables allowing assistants to insert cases and receive administrator approval before appending new information to the working dataset

**Web Application**
- Provides a user friendly web interface for the user to search thousands of human trafficking cases
- Interfaces with MySQL database to search, analyze, and maintain a working dataset
- Will allow public access at no cost

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**Search Panel**
- Allows user to search the database for thousands of cases and their individual defendants
- Search by 47 different case specific variables and view applicable results in table
- Select row in results table to display detailed case information

**Analyze Panel**
- Allows user to visualize specified data from all or selected cases
- Choose from 5 types of graphs and select the independent and dependent variables to dynamically generate an interactive graph

**Admin Panel**
- Use permissions:
  - Admin: allowed full access to admin panel
  - Research Assistant (RA): allowed access to create and edit
  - Case entry is performed via single-case insertion or administrator batch upload
  - Allows administrators to review a case after case has been inserted or edited
  - Case editing and deletion performed solely by admins

**Results and Conclusions**
- Successfully developed a highly efficient interface for searching and analyzing human trafficking cases
- Provided ability for admins to maintain dataset to add to project longevity
- Experienced real world interactions with clients and working with clients’ requirements

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