

Terror Dataset Dynamic Test System

חיילי 8200 רוצים ליצור מערכת חדשה לבחינה של מועמדים ליחידות. הרעיון הוא שהאפליקציה תטען נתונים על התקפות טרור בעולם, המועמד צריך לקרוא את המידע, ובדף אחר לענות על שאלות.

Overview

You will build a small full-stack system that works with a terrorism dataset.

The system must:

- Load dataset data from a CSV file
- Display dataset in a table
- Generate random questions based on dataset rows
- Track player score
- Save player results

The UI should be simple and clear.

Tech:

Front: react: hooks, react router

Back: nodejs/express.js

Dataset Structure

The provided data has the following structure:

Column	Description
eventid	12 digits. First 8 digits = date (yyyymmdd). Last 4 digits = daily case number
year	Year of incident
country_txt	Country where incident happened
region_txt	Region where incident happened
city	City / town / village
summary	Short description of incident
attacktype1_txt	General attack method
targetsubtype1_txt	Specific target type
corp1	Corporation name
target1	Specific victim target
motive	Attack motive

Backend Requirements

Endpoint 1 — Load CSV

Goal: Send portion of the dataset to client.

Must:

- Load CSV file
- Parse CSV - Convert to array / matrix (you can use [async-csv](#))
 - If You use [this](#) library, You can use like that
`csv.parse(csvString, { columns: true })`
and this return array of objects, { key : value };
- Return first 50 rows only

Bonus:

- [Pagination](#) support - 50 results per request.
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Endpoint 2 — Save Test Result

Goal: Save player test result.

Must receive:

- Player score

Must save into:

- JSON file - date, score
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Frontend Requirements

You must create **2 pages**.

Page 1 — Data Page

Load Data

The page must:

- Send request to server
 - Receive dataset
 - Parse dataset
 - Show data in table
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Table Visual Effects

Must include:

Row Coloring

- Every second row → different background color

Hover Effect

- Every odd row → different hover style

Filtering Features

Text Search

User can search inside:

- City
- Country

Numeric Filtering - just the year field

For numeric fields allow:

- Greater than filter
- Less than filter

Examples:

- `year > 2015`
 - `year < 2005`
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Page 2 — Dynamic Test Page

Question Logic (Random Generation)

The system randomly selects:

- One row from dataset
- Two fields → X and Y
- One field → Z (answer field)

The system asks:

Question Format:

When X = value and Y = value → what is Z ?

Example

Dataset row contains:

- country_txt = Iraq
- iyear = 2014
- attacktype1_txt = Bombing

Question:

When country = Iraq and year = 2014 → what is attack type?

Answer Logic

If Answer Is Correct

- Add +1 point
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If Answer Is Wrong

System searches dataset:

If another row matches X and Y:

- Add +1 point

If no match exists:

- Show message:
"No matching result found. No point."
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Navigation Rules

User can:

- Return to Data Page anytime
 - Return back to Test Page
 - Same question must remain
 - Same score must remain
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Terror Data System

Search: Year > Year < Filter

Event ID	Year	Country	City	Attack Type	Motive
201705220001	2017	Afghanistan	Kabul	Suicide Bombing	Extremist
201603150002	2016	Turkey	Ankara	Shooting	Political
201411800003	2014	Iraq	Baghdad	Government Official	Sectarian
201209100010	2012	Nigeria	Maiduguri	Kidnapping	Militant
200807220005	2008	India	Ahmedabad	Bombing	Civilian Area

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Terror Data Quiz

When **Country** = **Iraq** and **Year** = **2014**, what is the **Attack Type**?

Your Answer:

Submit Answer

Correct! The answer is: **Bombing**

Back to Data Page Next Question

Bonus Features (Optional)

- Pagination
 - Player name saving
 - Show past scores
 - Timer per question
 - Question difficulty levels
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