EECS 1012 Project: Phase 1

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Group Name: CodeX

Project Idea: Country Database

Description: The application will display information on various countries sorted into individual panels on the page. Using buttons and a numerical input, users can retrieve different information about the various countries and have it displayed on screen.

Functional Requirements:

1) The user can view panels on screen assigned to one country each.

2) Buttons to display different information on the panels: (a) total number of country leaders (b) information on the current incumbent (c) year of founding (d) resource imports (e) resource exports

3) The panels can be sorted through buttons: (a) earlier to later (year) (b) later to earlier (year) (c) alphabetically (resources, incumbent) (d) larger to smaller (total number of leaders) (e) smaller to larger (total number of leaders).

4) The user can hide panels using a button.

5) The user can input a number. This output will correspond to the historical head of state assigned to that number for each country.

6) The user can input a year and be given the head of state for that country.

7) The user can input two different numbers. This output will take the first number (leader#1), and add the second number (leader#2), with the result being the number of years between the two heads of state, if it is a possible combination.

8) The user can input a number. This output will add that many election cycles to the incumbent date and display the corresponding year result on each country panel.

9) The user can select a panel/country and see relevant resource export locations on corresponding panels.

10) The user can select a panel/country and see relevant resource import locations on corresponding panels.

11) The user can select a panel/country and input a year. The output will display the head of state for each country for that year.

Github repository: <https://github.com/SportWizard/CodeX.git>

Information

Russia mostly exports the goods of energy which include oil, gas, petroleum and coal.

Russia trades with these countries: China, United Kingdom, Netherlands, Germany, Turkey, Belarus and the United States.

Russia imports mostly machinery and equipment, vehicles, consumer goods, foodstuffs, and chemical products.

Russia

Ø has the longest railway

Ø Russia is the largest country in the world

Ø Has one of the busiest metros

Ø Tetris was made in Russia

Ø they have the coldest village in the world

Ø 20% of Earth's trees are in Russia

Ø Russia has 11 time zones

Ø Russia one of the first countries to produce vodka

Ø Capital is Moscow, official language is Russian, About 143 million people.

Sources:

<https://oec.world/en/profile/country/rus#:~:text=Imports%20The%20top%20imports%20of,and%20Italy%20(%247.71B)>.

<https://wits.worldbank.org/countrysnapshot/en/RUSSIA>

<https://tradingeconomics.com/russia/exports-by-country>

<https://www.advantour.com/russia/economy/trade.htm>

<https://theplanetd.com/facts-about-russia/>

<https://luxeadventuretraveler.com/10-fun-facts-about-russia/>

Germany mostly exports Pharmaceutical products, motor cars, and motor caravans, engines and other vehicle parts.

Germany trades with these countries: United States, China, France, United Kingdom and Netherlands, Italy, and Poland.

Germany imports mostly motor vehicles, industrial and electrical machinery, oil and mineral fuels, and Pharmaceuticals, computer equipment and chemical products.

Germany

Ø most popular surname is Muller

Ø Beer is a food in Bavaria

Ø They have 1000 varieties of sausages

Ø Gummy bears invented in Germany

Ø Germany has world’s largest cathedral

Ø attempting to escape jail is legal in Germany

Ø University is free

Ø largest train station in Europe

Ø Drinking age is 16

Ø has over 400 zoo’s

Ø Capital is Berlin, official language is German, About 83 million people, and Currency in Euro’s.

Sources:

<https://oec.world/en/profile/country/deu#:~:text=Trade%20In%20August%202022%2C%20the,machinery%20(%E2%82%AC4.75B)>.

<https://tradingeconomics.com/germany/exports-by-country>

<https://www.worldstopexports.com/germanys-top-import-partners/>

<https://www.studying-in-germany.org/interesting-facts-about-germany/>

<https://theplanetd.com/facts-about-germany/>

South Africa mostly exports corn, precious metals & stones including diamonds, gold and platinum, Machinery, Chemical, vegetables, and cars.

South Africa trades with these countries: China, United States, India, United Kingdom, and Germany

South Africa imports mostly petroleum, motor vehicles: parts and accessories, cars and broadcasting equipment.

South Africa

Ø has The longest continuous wine route on earth is found in South Africa

Ø It is the largest meat producer in Africa

Ø Has 11 official languages

Ø only country with three capital cities

Ø World’s first heart transplant was completed in cape town

Ø Only country in the world where two Nobel prize winners lived on the same street

Ø You can swim with penguins.

Ø Capital is Cape Town, Bloemfontein, Pretoria, official language is afrikaans, english, northern sotho, xhosa, zulu, southern sotho, tswana, tsonga, venda, swati, ndebele, About 60 million people, and Currency in rand.

Sources:

<https://oec.world/en/profile/country/zaf>

<https://wits.worldbank.org/CountrySnapshot/en/ZAF>

<https://globaledge.msu.edu/countries/south-africa/tradestats>

<https://www.worldstopexports.com/top-south-african-import-partners/>

<https://expatexplore.com/blog/interesting-facts-south-africa/>

<https://thefactfile.org/south-africa-facts/>

Argentina mostly exports Cereals, food industry waste, Animal/vegetable fats, oil and waxes, vehicles, and oil seeds, soybean meal, soybean oil and soybeans, and corn.

Argentina trades with these countries: Brazil, China, United States, Chile, Paraguay, Vietnam, and Germany

Argentina imports mostly cars, motor vehicles: parts and accessories, Machinery, Electrical equipment, minerals and fuels

Argentina

Ø Is home to both the highest and lowest points of the Southern Hemisphere

Ø Capital of Argentina Buenos Aires translates to the ‘good airs’ or ‘fair winds’

Ø King of beef

Ø Government officials banned parents from naming children Messi in his hometown

Ø The tango dance originated in Argentina

Ø Argentina went through five presidents in just 10 days

Ø Argentina has had two female presidents.

Ø Capital is Buenos Aires, official language is Spanish, about 46 million people, and currency in peso.

Sources:

<https://www.icontainers.com/us/2020/01/31/argentina-main-exports-and-imports/#:~:text=Soybean%20Meal%20(%249.2%20billion,12%25%20of%20their%20total%20exports)>

<https://oec.world/en/profile/country/arg>

<https://tradingeconomics.com/argentina/exports-by-country>

<https://southamericabackpacker.com/facts-about-argentina/>

<https://www.natgeokids.com/uk/discover/geography/countries/argentina-facts/>

Iran mostly exports oil and natural gas, other exports are chemicals, plastics, fruits, ceramic products and metals.

Iran trades with these countries: China, Japan, Turkey, Pakistan and United Arab Emirates.

Iran imports mostly non-electrical machinery, steel and iron, chemicals, transport vehicles, plastics and Animal, vegetable fats and oils, cleavage products.

Iran

Ø Is not an Arab country and Iranians are Persians

Ø The weekend in Iran is Friday

Ø a thumbs-up in Iran is bad

Ø blowing your nose in public is rude

Ø Majority of students in university are females

Ø Iranians love tea.

Ø Capital is Tehran, official language is Persian, about 85 million people, and currency in rial.

Sources:

<https://oec.world/en/profile/country/irn#:~:text=Exports%20The%20top%20exports%20of,%2C%20and%20Germany%20(%24302M)>.

<https://tradingeconomics.com/iran/imports-by-country>

<https://wits.worldbank.org/CountrySnapshot/en/IRN>

<https://travelwithmansoureh.com/blog/interesting-facts-about-iran>

<https://www.worldatlas.com/articles/top-10-interesting-facts-about-iran.html>

Australia mostly exports iron ore, coal, gold and petroleum, and frozen bovine meat.

Australia trades with these countries: China, Japan, South Korea, United States, and India.

Australia imports mostly cars, petroleum, broadcasting equipment, crude oil, phone system devices, and computers

Australia

Ø 90% of Australians live on the coast

Ø Australia is the only continent in the world without an active volcano

Ø Australia has three times more sheep than people

Ø An Australian man once tried to sell New Zealand on eBay

Ø Australia was the second country in the world to give women the right to vote in 1902

Ø Australia is home to the longest fence in the world

Ø Tasmania has the cleanest air in the world

Ø The Great Barrier Reef is the largest ecosystem in the world

Ø Capital is Canberra, official language is English, about 26 million people, and currency in Australian dollar (AUD).

Sources:

<https://oec.world/en/profile/country/aus>

<https://wits.worldbank.org/CountrySnapshot/en/AUS>

<https://www.worldstopexports.com/australias-top-import-partners/>

<https://tradingeconomics.com/australia/exports-by-country>

[https://www.travelhttps://facts.net/australia-facts/nation.co.uk/blog/10-interesting-facts-about-australia-that-may-surprise-you](https://www.travelnation.co.uk/blog/10-interesting-facts-about-australia-that-may-surprise-you)

Trades

Argentina & Australia

History:

* Argentina and Australia developed a diplomatic relationship soon after WWII, in December 1959
* Argentina opened an office in one of Australia’s cities, Sydney, in 1962
* The following year Argentina upgraded the office into an embassy and moved to Australia’s capital city, Canberra
* Australia ended relation with Argentina during Argentina’s conflict with the UK but soon returned trading with Argentina after the war had ended
* Over 50 Australian companies operate in Argentina

Trade:

* The Argentina and Australia trade accumulated $1.076 US Billion in 2016
* Argentina’s exports to Australia include
  + Animal Feed
  + Vehicles
  + Oil Seeds
  + Fruits & Vegetables
  + Vegetable oil and fats
* In 2020, Australia exports $142 million US in a single year to Australia
* Australian exports to Argentina include
  + Coal
  + Crude vegetable matter
  + Railway Vehicles
  + Leather

Source:

<https://en.wikipedia.org/wiki/Argentina%E2%80%93Australia_relations#History>

<https://oec.world/en/profile/bilateral-country/arg/partner/aus>

The trades between South Africa and Iran:

South Africa exports to Iran:

- Aluminum

- Machinery, nuclear reactors, boilers

- Ores slag and ash

- Oil seed, oleagic fruits, grain, seed, fruits

- Aircraft, spacecraft

Source:<https://tradingeconomics.com/south-africa/exports/iran>

Iran exports to South Africa:

- Inorganic chemicals, precious metal compound, isotope

- Fertilizers

- Carpets and other textile floor coverings

- Mineral fuels, oils, distillation products

- Salt, sulphur, earth, stone, plaster, lime and cement

- Ceramic products

Source:<https://tradingeconomics.com/iran/exports/south-africa>

Trade between Germany and Russia

Russian Exports to Germany:

* Crude Petroleum
* Refined Petroleum
* Coal Briquettes/Blocks

Source:<https://oec.world/en/profile/bilateral-country/rus/partner/deu#:~:text=The%20main%20products%20that%20Russia%20exported%20to%20Germany,from%20%246.03B%20in%201995%20to%20%2414.2B%20in%202020>.

Germany Exports to Russia:

* Cars (Mercedes, BMW, Audi, Porsche, Volkswagen)
* Car parts & accessories
* Medicines

Source: <https://oec.world/en/profile/bilateral-country/deu/partner/rus#:~:text=The%20main%20products%20that%20Germany%20exported%20to%20Russia,from%20%246.51B%20in%201995%20to%20%2426.1B%20in%202020>.

Head of state

Russia:

Boris Yeltsin: July 10, 1991 - September 22, 1993

Alexander Rustskoy: September 22, 1993 - October 4, 1993

Boris Yeltsin: October 4, 1993 - November 5, 1996

Viktor Chernomyrdin: November 5, 1996 - November 6, 1996

Boris Yeltsin: November 6, 1996 - December 31, 1999

Vladimir Putin: December 31, 1999 - May 7, 2000

Vladimir Putin: May 7, 2000 - May 7, 2008

Dmitry Medvedev: May 7, 2008 - May 7, 2012

Vladimir Putin: May 7, 2012 - now

Wikimedia Foundation. (2022, November 17). *List of heads of State of Russia*. Wikipedia. Retrieved December 3, 2022, from https://en.wikipedia.org/wiki/List\_of\_heads\_of\_state\_of\_Russia

Germany:

Johannes Rau: July 1, 1999 - June 30, 2004

Horst Köhler: July 1, 2004 - May 31, 2010

Jens Böhrnsen: May 31, 2010 - June 30 2010

Christian Wulff: June 30, 2010 - February 17, 2012

Horst Seehofer: February 17 2012 - March 18, 2012

Joachim Gauck: March 18, 2012 - March 18, 2017

Frank-Walter Steinmeier: March 18, 2017 - now

Wikimedia Foundation. (2022, November 10). *List of heads of State of Germany*. Wikipedia. Retrieved December 3, 2022, from https://en.wikipedia.org/wiki/List\_of\_heads\_of\_state\_of\_Germany

Argentina:

Fernando de la Rúa: December 10, 1999 - December 21, 2001

Ram[ón](https://en.wikipedia.org/wiki/Ram%C3%B3n_Puerta) Puerta: December 21, 2001 - December 23, 2001

Adolfo Rodriguez Saá: December 23, 2001 - December 30, 2001

Eduardo Camaño: December 30, 2001 - January 2, 2002

Eduardo Duhalde: January 2, 2002 - May 25, 2003

Néstor KirchnerL May 25, 2003 - December 10, 2007

Cristina Fernández de Kirchner: December 10, 2007 - December 10, 2011

Cristina Fernández de Kirchner: December 10, 2011 - December 10, 2015

Federico Pinedo: December 10, 2015 - December 10, 2015

Mauricio Macri: December 10, 2015 - December 10, 2019

Alberto Fernández: December 10, 2019 - now

List of heads of state of Argentina. (2022, November 11). In *Wikipedia*. <https://en.wikipedia.org/wiki/List_of_heads_of_state_of_Argentina>

Australia:

South Africa:

Nelson Mandela: May 10, 1994 - June 14, 1999

Thabo Mbeki: June 14, 1999 - September 24, 2008

Ivy Matsepe-Casaburri: September 25, 2008 - September 25, 2008

Kgalema Motlanthe: September 25, 2008 - May 9, 2009

Jacob Zuma: May 9, 2009 - February 2018

Cyril Ramaphosa: February 14, 2018 - February 15, 2018

Cyril Ramaphosa: February 15, 2018 - now

List of heads of state of South Africa. (2022, December 2). In *Wikipedia*. https://en.wikipedia.org/wiki/List\_of\_heads\_of\_state\_of\_South\_Africa

Iran:

Ruhollah Khomeini: February 5, 1979 - December 3, 1979

Ruhollah Khomeini: December 3, 1979 - June 3, 1989

Ali Khamenei: June 4, 1989 - now

List of heads of state of Iran. (2022, August 24). In *Wikipedia*. https://en.wikipedia.org/wiki/List\_of\_heads\_of\_state\_of\_Iran