



EIS LAB Summer 2014

Exploiting Data from Government Data Portals

Data Analysis and Visualization 1.0

User Manual

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1 Introduction

Govt. Data Analysis and Visualization Tool 1.0 will let you Analysis and Visualize Govt. Data Portals data graphically as well as in tabular form. Currently, the chosen domain is population and you can fine here how fast Population of Germany, United Kingdome and France increase or decreases and what is the Population density, growth rate, birthrate and death rate of specified countries and how dynamically it goes up or low every year. All of this data is available on the particular country's official Govt. data portal.

1.1 Population

The total number of persons inhabiting a country, city, or any district or area

1.2 Population Density

Number of people per square kilometer or per unit Area

1.3 Growth Rate %

The average annual percent change in the population, resulting from a surplus (or deficit) of births over deaths and the balance of migrants entering and leaving a country. The rate may be positive or negative. The growth rate is a factor in determining how great a burden would be imposed on a country by the changing needs of its people for infrastructure (e.g., schools, hospitals, housing, roads), resources (e.g., food, water, electricity), and jobs. Rapid population growth can be seen as threatening by neighboring countries.

1.4 Birth Rate (Birth/1000 Population)

This entry gives the average annual number of births during a year per 1,000 persons in the population at midyear; also known as crude birth rate. The birth rate is usually the dominant factor in determining the rate of population growth. It depends on both the level of fertility and the age structure of the population.

1.5 Death Rate (Death/1000 Population)

This entry gives the average annual number of deaths during a year per 1,000 populations at midyear; also known as crude death rate. The death rate, while only a rough indicator of the mortality situation in a country, accurately indicates the current mortality impact on population growth. This indicator is significantly affected by age distribution, and most countries will eventually show a rise in the overall death rate, in spite of continued decline in mortality at all ages, as declining fertility results in an aging population.

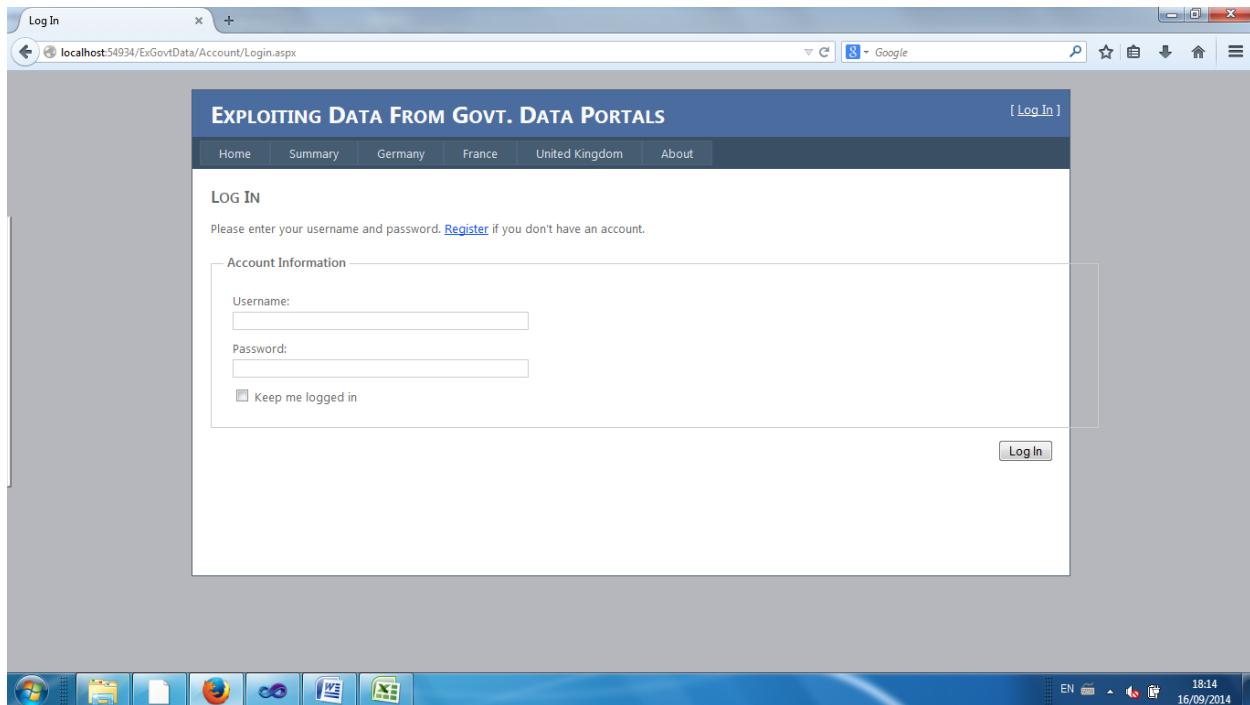
2 System and Software Requirements

- Operating System: Windows XP, Win7, Win 8
- Minimum ram: 1 GB
- MS SQL Server 2005, 2008 or 2010
- .Net Framework 4.1
- Visual Studio 2010.
- HDD: 40 GB
- IIS 5.0 or later.

3 Step by Step Guide to Use the System

3.1 Login

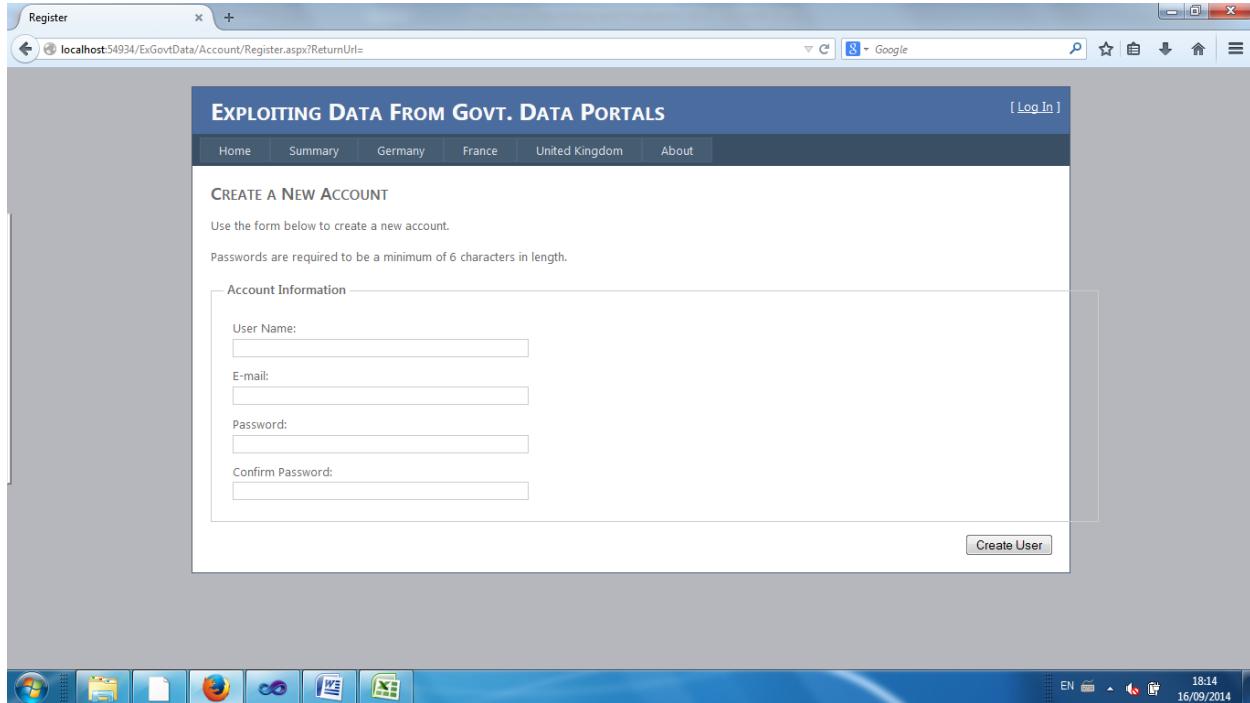
Click on the login button and provide credentials and login and if you are new user then click on register.



3.2 New User Registration

After clicking on register a new form create a new account will be open, here you have to provide

Unique User Name, email and Password and all field are mandatory and then click on create User button to create the account. If all the data provided is in proper format the new user will be created and user will be redirected to home screen after logging.



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The screenshot shows two nearly identical screenshots of a web browser window. Both are displaying the 'CREATE A NEW ACCOUNT' page of a website titled 'EXPLORING DATA FROM GOVT. DATA PORTALS'. The browser's address bar shows the URL as 'localhost:54934/ExGovtData/Account/Register.aspx?ReturnUrl='.

The top screenshot shows the initial state of the form. It includes a list of validation errors:

- User Name is required.
- E-mail is required.
- Password is required.
- Confirm Password is required.

The bottom screenshot shows the same form after a user has attempted to submit it with invalid data. A red error message 'Please enter a different user name.' is displayed above the 'User Name' field. The 'User Name' field contains the value 'EIS-Lab-Usman'.

Both screenshots show a 'Create User' button at the bottom right of the form. The browser interface at the bottom includes a taskbar with various icons and a system tray showing the date and time as 16/09/2014.

3.3 Home

In this page you will find the introduction about this tool and all necessary definitions about Population data.

Data Analysis and Visualization 1.0 User Manual

The screenshot shows a Windows desktop environment with a web browser window open to 'localhost:54934/ExGovtData/default.aspx'. The title bar of the browser says 'Home Page' and the address bar shows 'localhost:54934/ExGovtData/default.aspx'. The browser's toolbar includes icons for Back, Forward, Stop, Refresh, Home, and Favorites, along with a search bar for Google and a download button.

The main content area has a blue header bar with the text 'EXPLOITING DATA FROM GOVT. DATA PORTALS' and a 'Welcome EIS-Lab-Usman! [Log Out]' message. Below the header is a navigation menu with links for Home, Summary, Germany, France, United Kingdom, and About.

The 'Summary' section contains the following information:

- WELCOME TO GOVT. DATA ANALYSIS AND VISUALISATION 1.0**: A brief introduction stating that users can analyze and visualize population data for Germany, the United Kingdom, and France, including growth rate, birthrate, and death rate.
- POPULATION**: Definition as the total number of persons inhabiting a country, city, or any district or area.
- POPULATION DENSITY**: Definition as the number of people per square kilometer per unit Area.
- GROWTH RATE %**: Definition as the average annual percent change in the population, resulting from a surplus (or deficit) of births over deaths and the balance of migrants entering and leaving a country. It is a factor in determining how great a burden would be imposed on a country by the changing needs of its people for infrastructure (e.g., schools, hospitals, housing, roads), resources (e.g., food, water, electricity), and jobs. Rapid population growth can be seen as threatening by neighboring countries.
- BIRTH RATE (BIRTH/1000 POPULATION)**: Definition as the average annual number of births during a year per 1,000 persons in the population at midyear; also known as crude birth rate. The birth rate is usually the dominant factor in determining the rate of population growth. It depends on both the level of fertility and the age structure of the population.
- DEATH RATE (DEATH/1000 POPULATION)**: Definition as the average annual number of deaths during a year per 1,000 persons in the population at midyear; also known as crude death rate. It depends on both the level of mortality and the age structure of the population.

The taskbar at the bottom of the screen shows various pinned icons for Microsoft Office applications like Word, Excel, and PowerPoint, as well as other system icons. The system tray shows the date and time as '16/09/2014' and '18:20'.

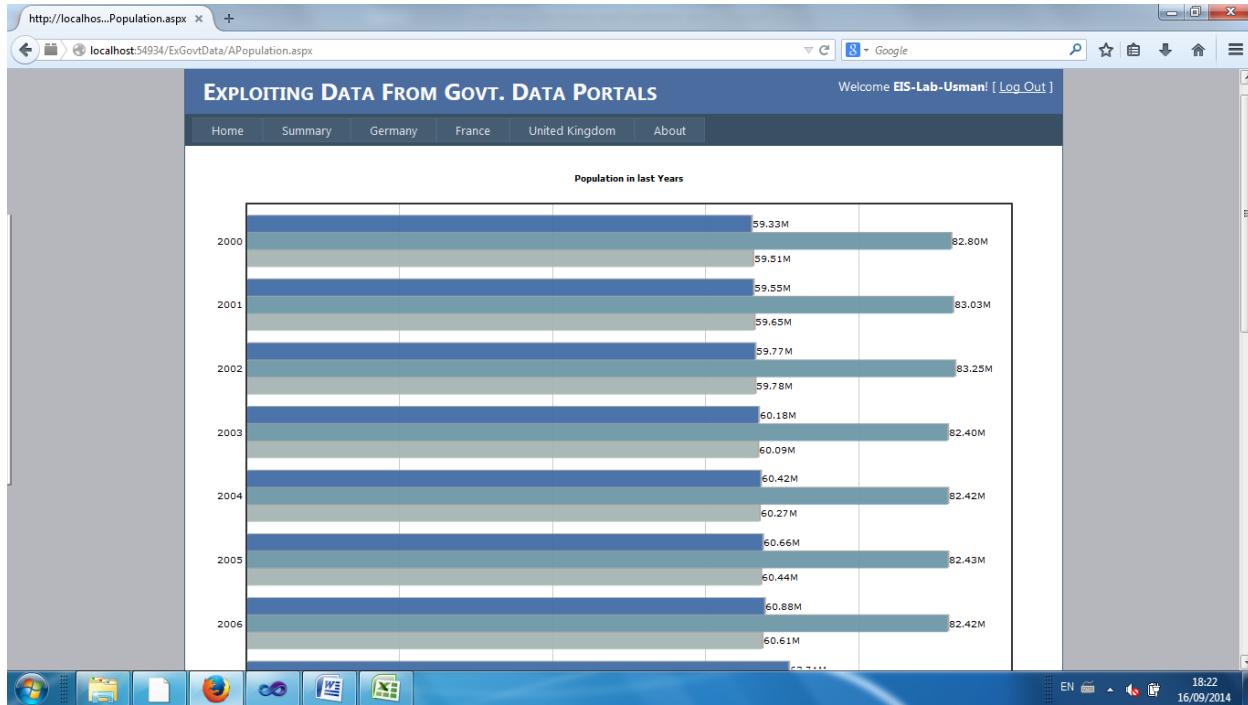
3.4 Summary

3.4.1 Population

By clicking on population you will Analysis and graphically visualize population data of Germany, UK and France and can compare them and see how they change in every year. The population data is also displaying in tabular form for better understanding.

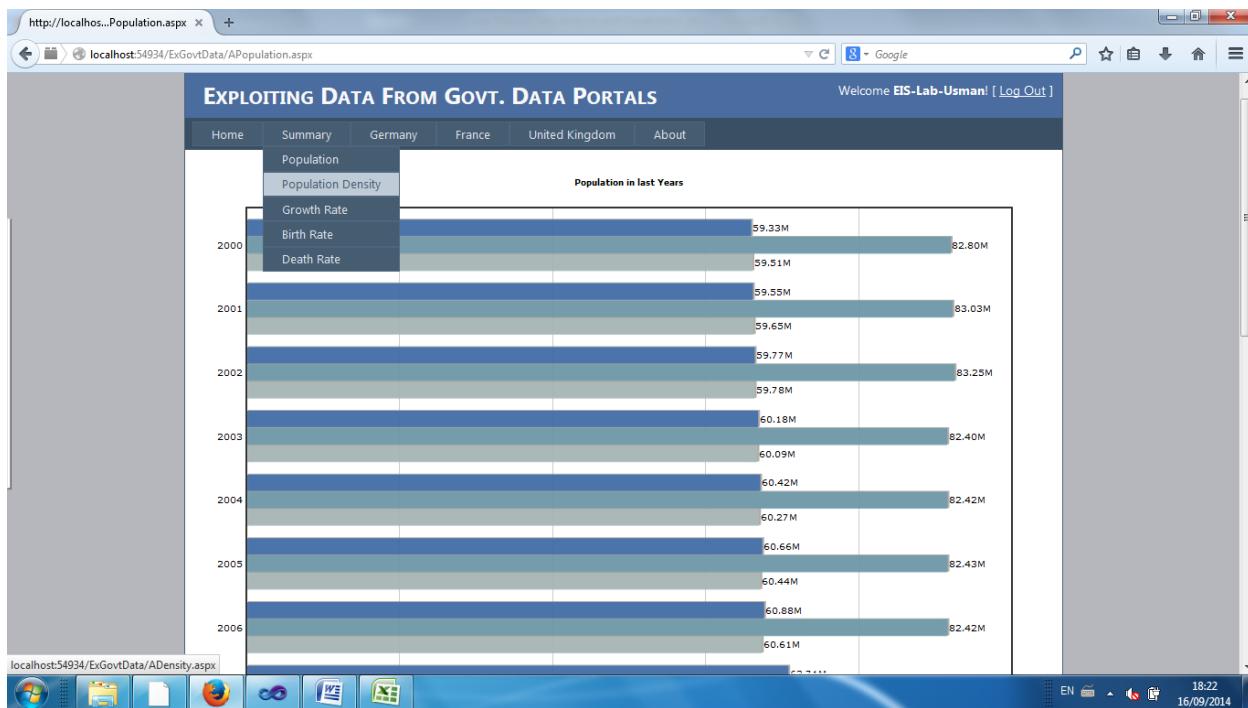
This screenshot is similar to the previous one but focuses on the 'Population' menu item, which is highlighted with a black rectangle. The rest of the interface remains the same, showing the summary statistics for population, density, and growth rate.

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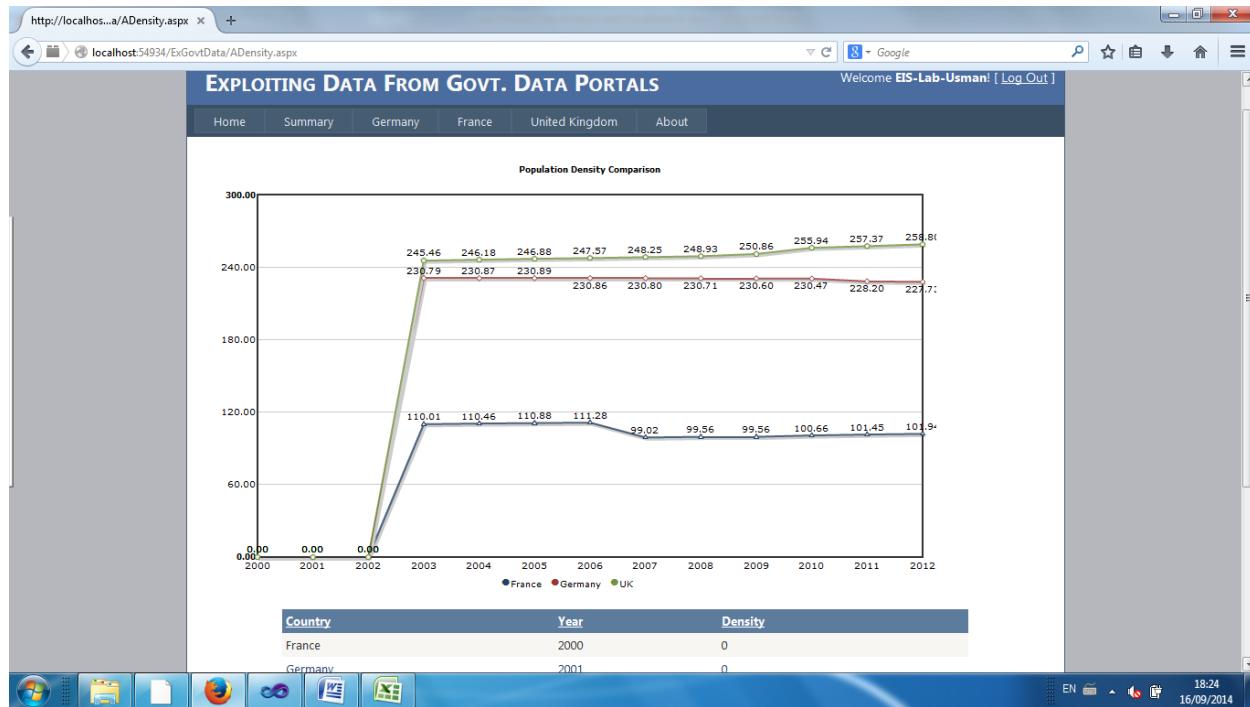


3.4.2 Population Density of UK, Germany and France

Here by clicking on population density, user can see both in graphical and in tabular form population density of UK , Germany and France and how it changes with the passage of time.



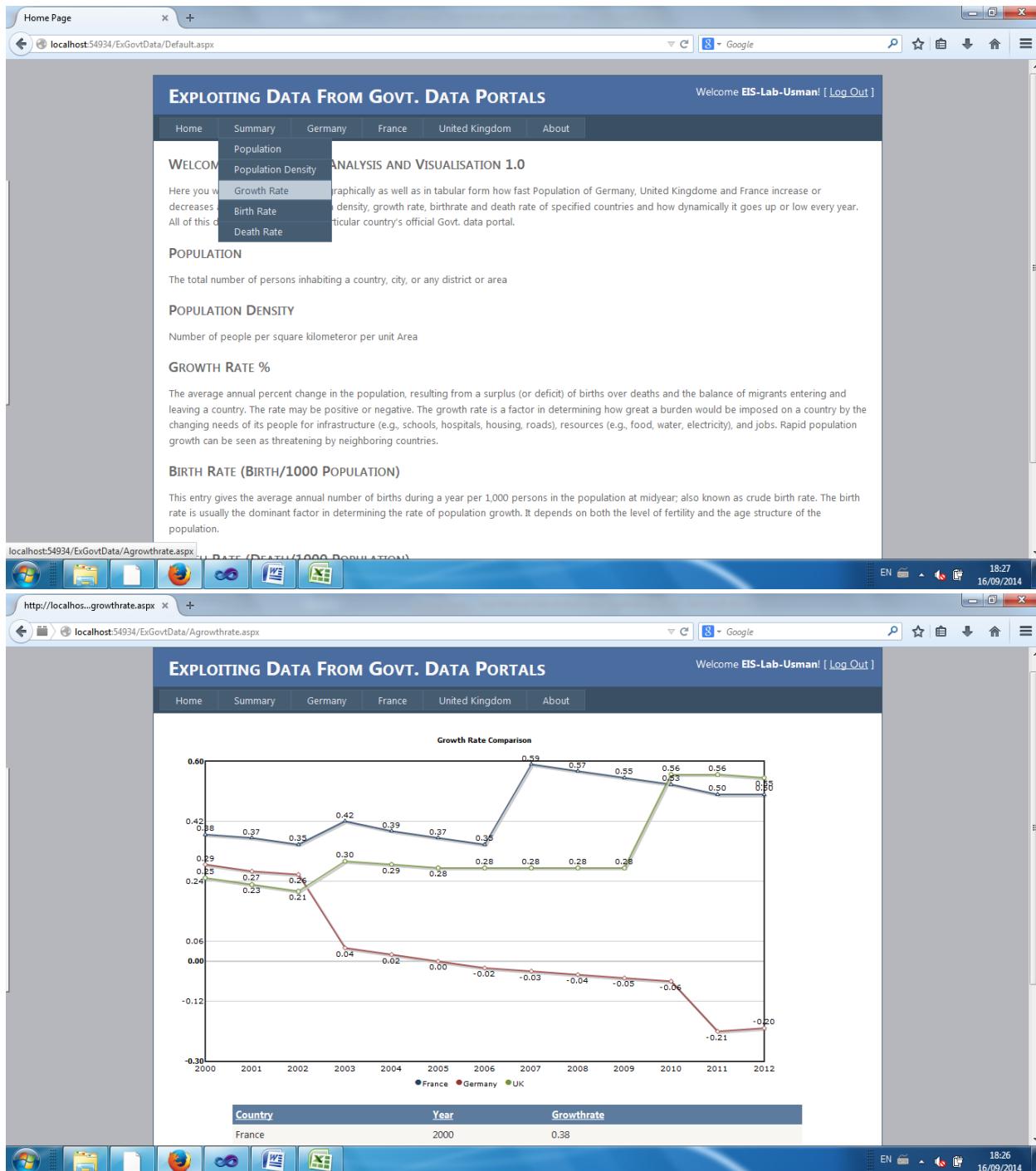
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3.4.3 Growth Rate of UK, Germany and France

By clicking on Growth rate, user can see growth rate in UK, Germany and France graphically and in tabular form and he can also compare how it change over time.

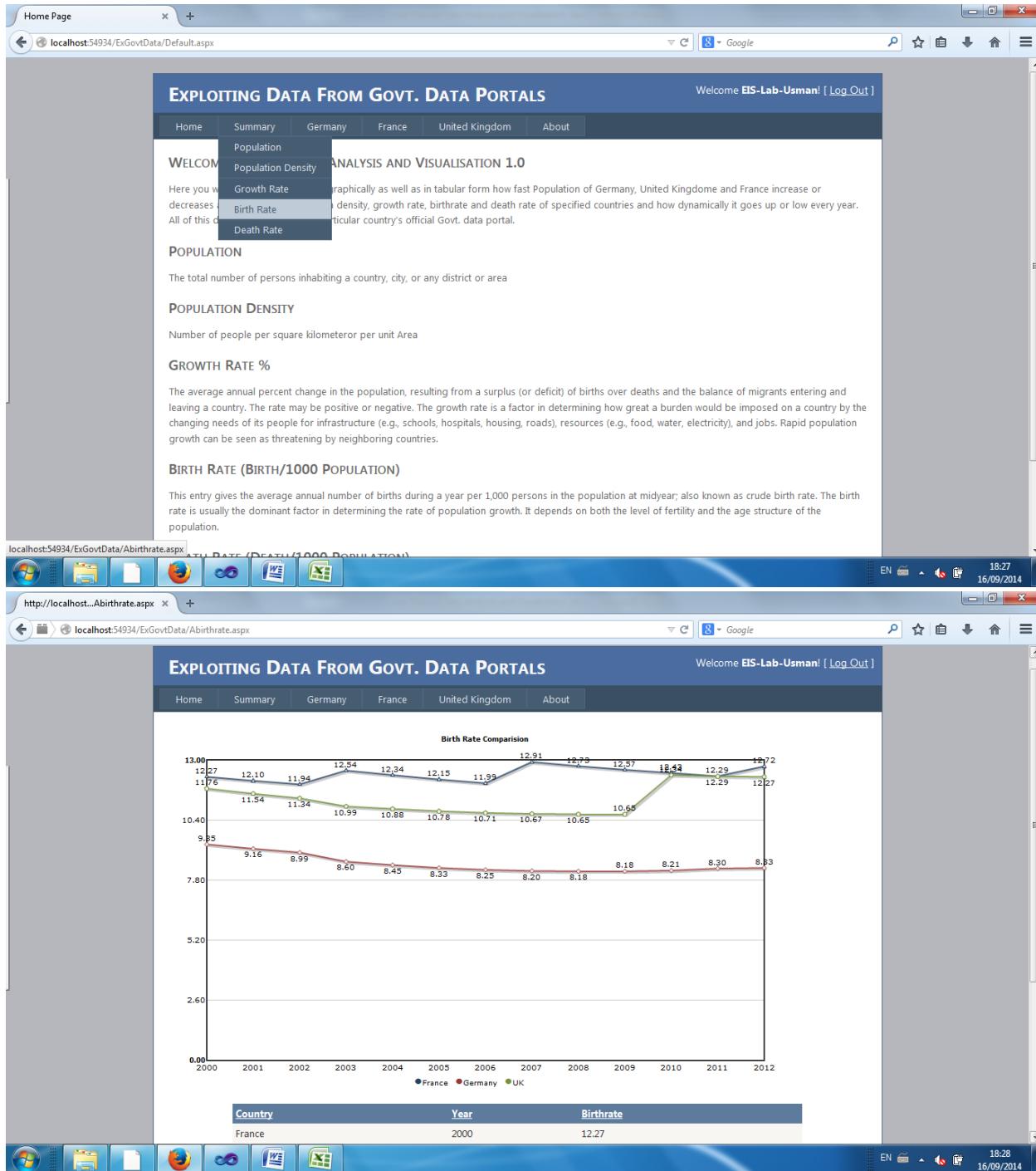


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3.4.4 Birth Rate of UK, Germany and France

By clicking on Grow rate use can see the birth rate graphically and in tabular form and he can also find the difference in birth rate of specified countries and how it increases or decrease over time.



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3.4.5 Death Rate Analysis and visualization of UK, Germany and France

By clicking on Death Rate , you can see the death rate of all three countries in graphical as well as in tabular form and can also analyze how the number of death increase or decrease over time and in which country there high death rate instead of other.



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3.5 Germany

3.5.1 Population

The screenshot shows two windows of a web application. The top window is titled 'EXPLOITING DATA FROM GOVT. DATA PORTALS' and displays population data for Germany, France, and the United Kingdom. The bottom window is also titled 'EXPLOITING DATA FROM GOVT. DATA PORTALS' and shows a bar chart titled 'Population of Germany last Years' from 2000 to 2012.

Top Window Content:

- WELCOME TO GOVT.**: Here you will Analysis and Visualisation 1.0
- Population**: Shows population data for Germany, France, and the United Kingdom.
- Population Density**: Shows population density data for Germany, France, and the United Kingdom.
- Growth Rate**: Shows growth rate data for Germany, France, and the United Kingdom.
- Birth Rate**: Shows birth rate data for Germany, France, and the United Kingdom.
- Death Rate**: Shows death rate data for Germany, France, and the United Kingdom.

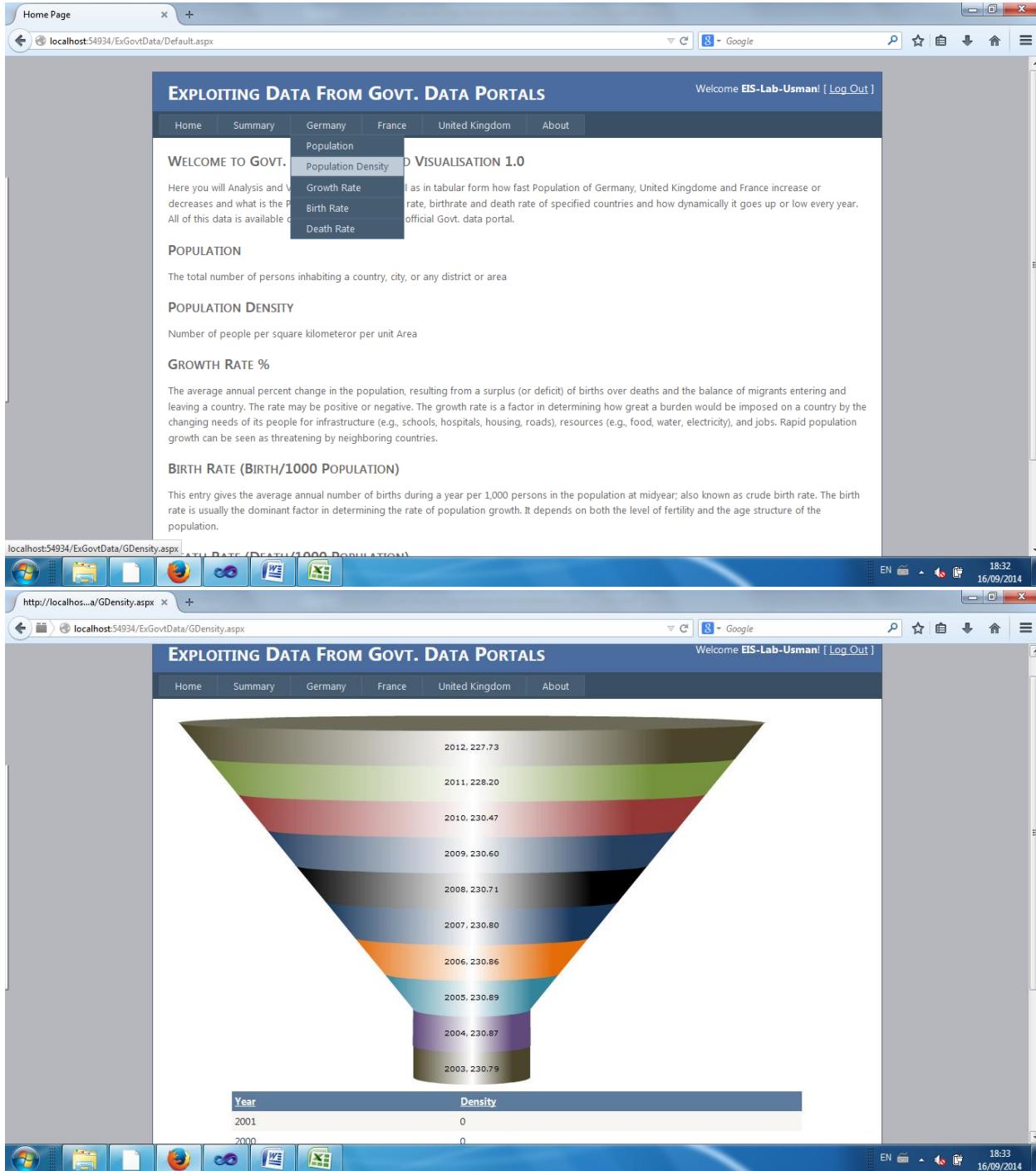
Bottom Window Content:

Population of Germany last Years

Year	Population (M)
2000	82.80M
2001	83.03M
2002	83.25M
2003	82.40M
2004	82.42M
2005	82.43M
2006	82.42M
2007	82.40M
2008	82.37M
2009	82.33M
2010	82.28M
2011	81.47M
2012	81.31M

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3.5.2 Population Density



Data Analysis and Visualization 1.0 User Manual

3.5.3 Growth Rate

The screenshot shows two windows of a web application titled "EXPLOITING DATA FROM GOVT. DATA PORTALS".

Top Window (localhost:54934/ExGovtData/Default.aspx):

- Header:** Home Page, localhost:54934/ExGovtData/Default.aspx, Welcome EIS-Lab-Usman! [Log Out]
- Menu:** Home, Summary, Germany, France, United Kingdom, About
- Content:**
 - WELCOME TO GOVT.**: Here you will Analysis and Visualisation.
 - Population**: Population Density, Growth Rate, Birth Rate, Death Rate.
 - POPULATION**: The total number of persons inhabiting a country, city, or any district or area.
 - POPULATION DENSITY**: Number of people per square kilometer or per unit Area.
 - GROWTH RATE %**: The average annual percent change in the population, resulting from a surplus (or deficit) of births over deaths and the balance of migrants entering and leaving a country. The rate may be positive or negative. The growth rate is a factor in determining how great a burden would be imposed on a country by the changing needs of its people for infrastructure (e.g., schools, hospitals, housing, roads), resources (e.g., food, water, electricity), and jobs. Rapid population growth can be seen as threatening by neighboring countries.
 - BIRTH RATE (BIRTH/1000 POPULATION)**: This entry gives the average annual number of births during a year per 1,000 persons in the population at midyear; also known as crude birth rate. The birth rate is usually the dominant factor in determining the rate of population growth. It depends on both the level of fertility and the age structure of the population.

Bottom Window (localhost:54934/ExGovtData/Growthrate.aspx):

- Header:** localhost:54934/ExGovtData/Growthrate.aspx, http://localhost:54934/ExGovtData/Growthrate.aspx, Welcome EIS-Lab-Usman! [Log Out]
- Content:**
 - Bar Chart:** Growthrate of Germany in % (2000-2012). The chart shows values: 0.29, 0.27, 0.26, 0.04, 0.02, -0.02, -0.03, -0.04, -0.05, -0.06, -0.21, -0.20.
 - Table:** Growthrate

Year	Country	Growthrate
2001	Germany	0.27
2000	Germany	0.29

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3.5.4 Birth Rate

EXPLOITING DATA FROM GOVT. DATA PORTALS

Welcome EIS-Lab-Usman! [Log Out]

WELCOME TO GOVT.

Here you will Analysis and Visualisation of data from various countries. As in tabular form how fast Population of Germany, United Kingdom and France increase or decreases and what is the Population Density, Growth Rate, Birth rate, death rate of specified countries and how dynamically it goes up or low every year. All of this data is available on official Govt. data portal.

POPULATION
The total number of persons inhabiting a country, city, or any district or area

POPULATION DENSITY
Number of people per square kilometer or per unit Area

GROWTH RATE %
The average annual percent change in the population, resulting from a surplus (or deficit) of births over deaths and the balance of migrants entering and leaving a country. The rate may be positive or negative. The growth rate is a factor in determining how great a burden would be imposed on a country by the changing needs of its people for infrastructure (e.g., schools, hospitals, housing, roads), resources (e.g., food, water, electricity), and jobs. Rapid population growth can be seen as threatening by neighboring countries.

BIRTH RATE (BIRTH/1000 POPULATION)
This entry gives the average annual number of births during a year per 1,000 persons in the population at midyear; also known as crude birth rate. The birth rate is usually the dominant factor in determining the rate of population growth. It depends on both the level of fertility and the age structure of the population.

BIRTHRATE OF GERMANY (BIRTH/1000 POPULATION)

localhost:54934/ExGovtData/GBirthrate.aspx

http://localhost:54934/ExGovtData/GBirthrate.aspx

localhost:54934/ExGovtData/GBirthrate.aspx

18:35 16/09/2014

EN

18:35 16/09/2014

EN

EXPLOITING DATA FROM GOVT. DATA PORTALS

Welcome EIS-Lab-Usman! [Log Out]

Birthrate of Germany (Birth/1000 Population)

9.85
9.16
8.99
8.60
8.45
8.33
8.25
8.20
8.18
8.18
8.21
8.30
8.33

Year Country Birthrate

2001 Germany 9.16

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3.5.5 Death Rate

The screenshot shows two windows of a web application titled "EXPLOITING DATA FROM GOVT. DATA PORTALS".

Top Window: A navigation menu at the top includes "Home", "Summary", "Germany", "France", "United Kingdom", and "About". A dropdown menu under "Summary" is open, showing options: Population, Population Density, Growth Rate, Birth Rate, and Death Rate. The "Death Rate" option is highlighted. The main content area displays a brief introduction to population analysis and a table showing population growth rates for Germany, United Kingdom, and France.

Bottom Window: The URL in the address bar is "http://localhost:54934/ExGovtData/GDeathrate.aspx". The title bar says "DEATH RATE (DEATH/1000 POPULATION)". The main content area shows a line chart titled "Deathrate of Germany (Death/1000 Population)" with data points from 2000 to 2012. Below the chart is a table with one row for 2001.

Year	Country	Deathrate
2001	Germany	10.42

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3.6 France

3.6.1 Population

The screenshot shows a web application titled "EXPLOITING DATA FROM GOVT. DATA PORTALS". The main menu includes Home, Summary, Germany, France, United Kingdom, and About. The "Population" menu item is currently selected, showing a sub-menu with Population, Population Density, Growth Rate, Birth Rate, and Death Rate. The main content area displays information about population analysis, mentioning the welcome to government data analysis, the purpose of analyzing and visualizing graphical data, and how it helps in understanding population growth rates, birth rates, and death rates for Germany, United Kingdom, and France. It also notes that all data is available on the particular portal.

POPULATION
The total number of persons inhabiting a country, city, or any district or area

POPULATION DENSITY
Number of people per square kilometer per unit Area

GROWTH RATE %
The average annual percent change in the population, resulting from a surplus (or deficit) of births over deaths and the balance of migrants entering and leaving a country. The rate may be positive or negative. The growth rate is a factor in determining how great a burden would be imposed on a country by the changing needs of its people for infrastructure (e.g., schools, hospitals, housing, roads), resources (e.g., food, water, electricity), and jobs. Rapid population growth can be seen as threatening by neighboring countries.

BIRTH RATE (BIRTH/1000 POPULATION)
This entry gives the average annual number of births during a year per 1,000 persons in the population at midyear; also known as crude birth rate. The birth rate is usually the dominant factor in determining the rate of population growth. It depends on both the level of fertility and the age structure of the population.

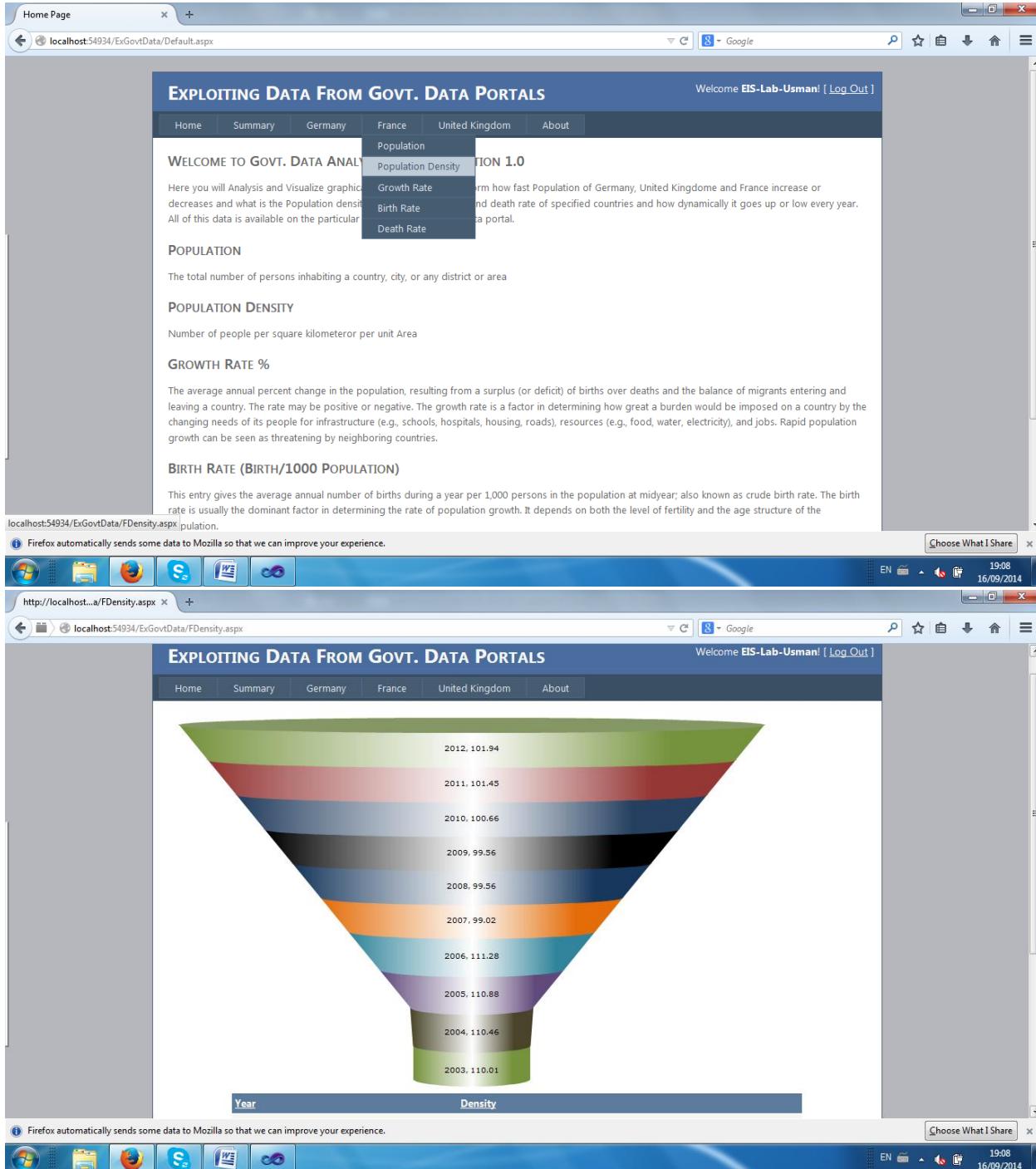
Population of France last Years

Year	Population (M)
1990	59.33M
1991	59.55M
1992	59.77M
1993	60.18M
1994	60.42M
1995	60.66M
1996	60.88M
1997	63.71M
1998	64.06M
1999	64.06M
2000	64.77M
2001	65.31M
2002	65.63M

(i) Firefox automatically sends some data to Mozilla so that we can improve your experience.

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3.6.2 Population Density



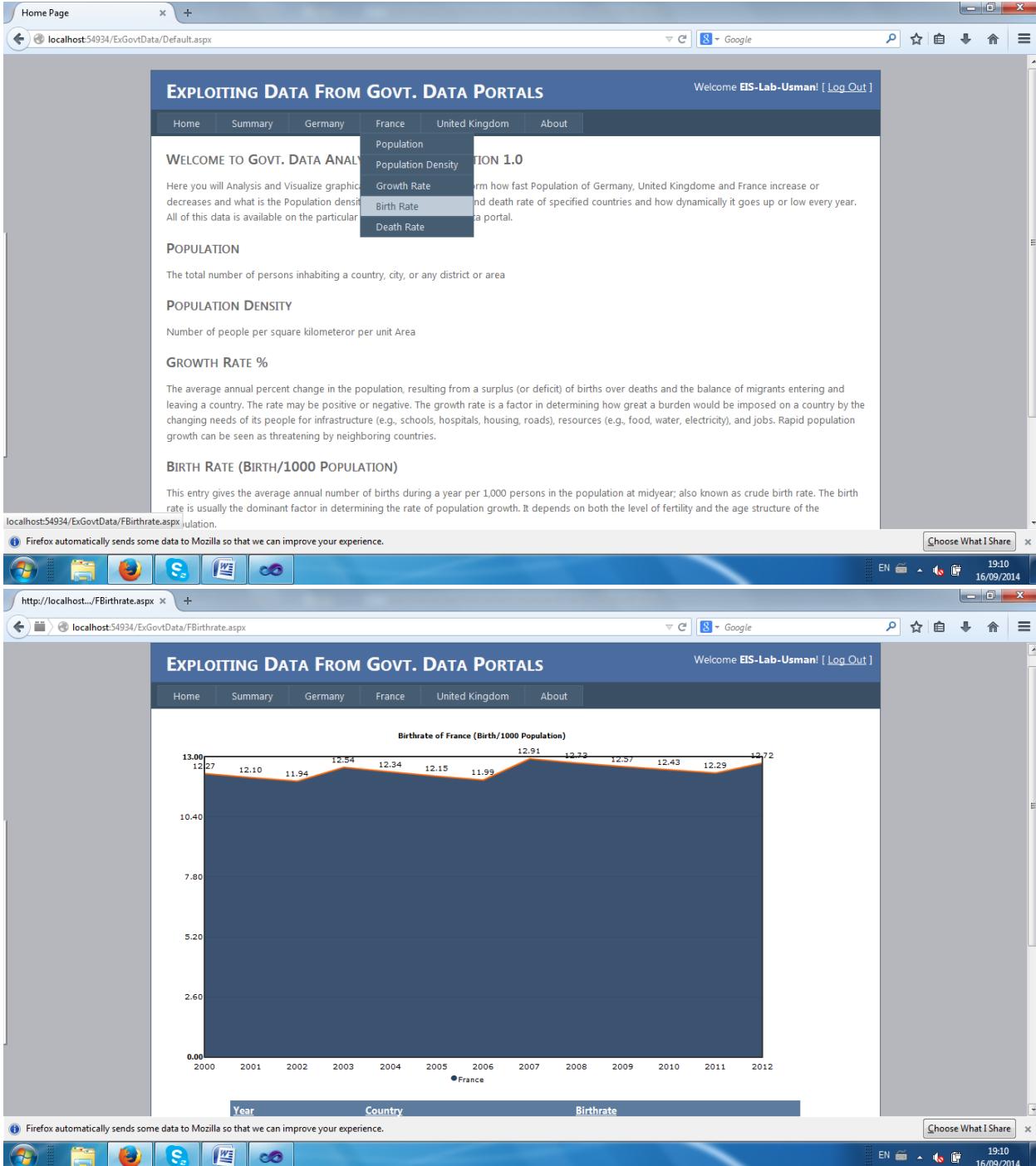
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3.6.3 Growth Rate



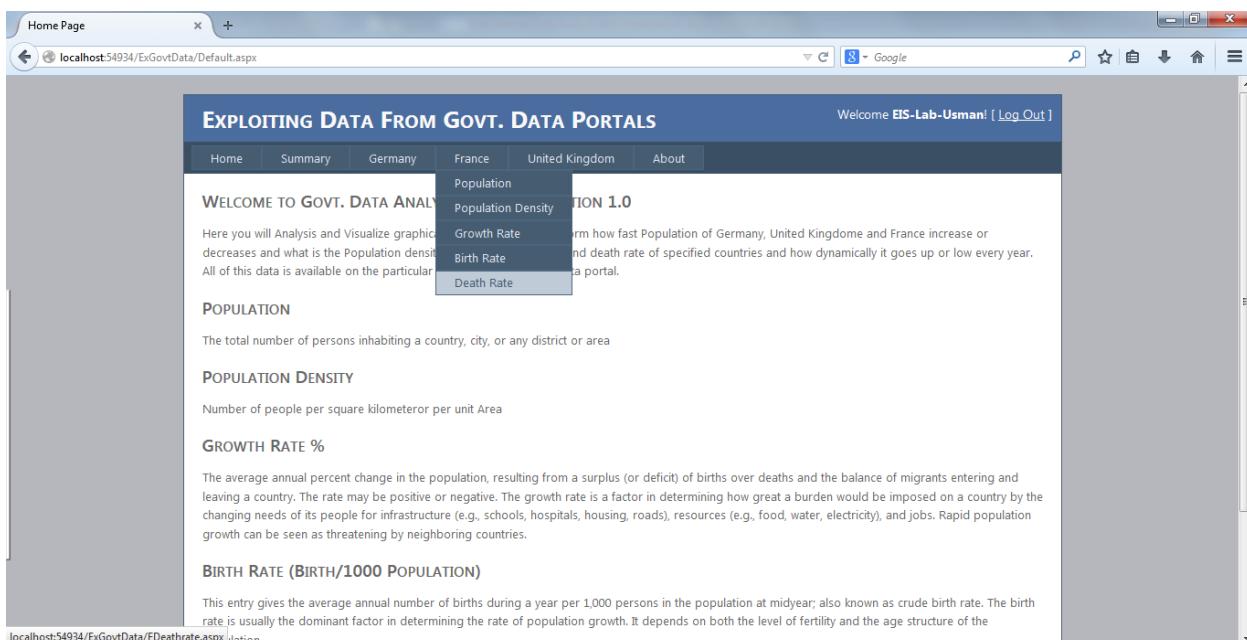
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3.6.4 Birth Rate



Data Analysis and Visualization 1.0 User Manual

3.6.5 Death Rate



The screenshot shows a dropdown menu under the 'Population' category. The options listed are Population, Population Density, Growth Rate, Birth Rate, and Death Rate. The 'Death Rate' option is highlighted.

WELCOME TO GOVT. DATA ANALYSIS

Here you will Analysis and Visualize graphic representation of population increase or decrease and what is the Population density of a country. You can also know how fast Population of Germany, United Kingdom and France increase or decrease and death rate of specified countries and how dynamically it goes up or low every year. All of this data is available on the particular portal.

POPULATION

The total number of persons inhabiting a country, city, or any district or area

POPULATION DENSITY

Number of people per square kilometer or per unit Area

GROWTH RATE %

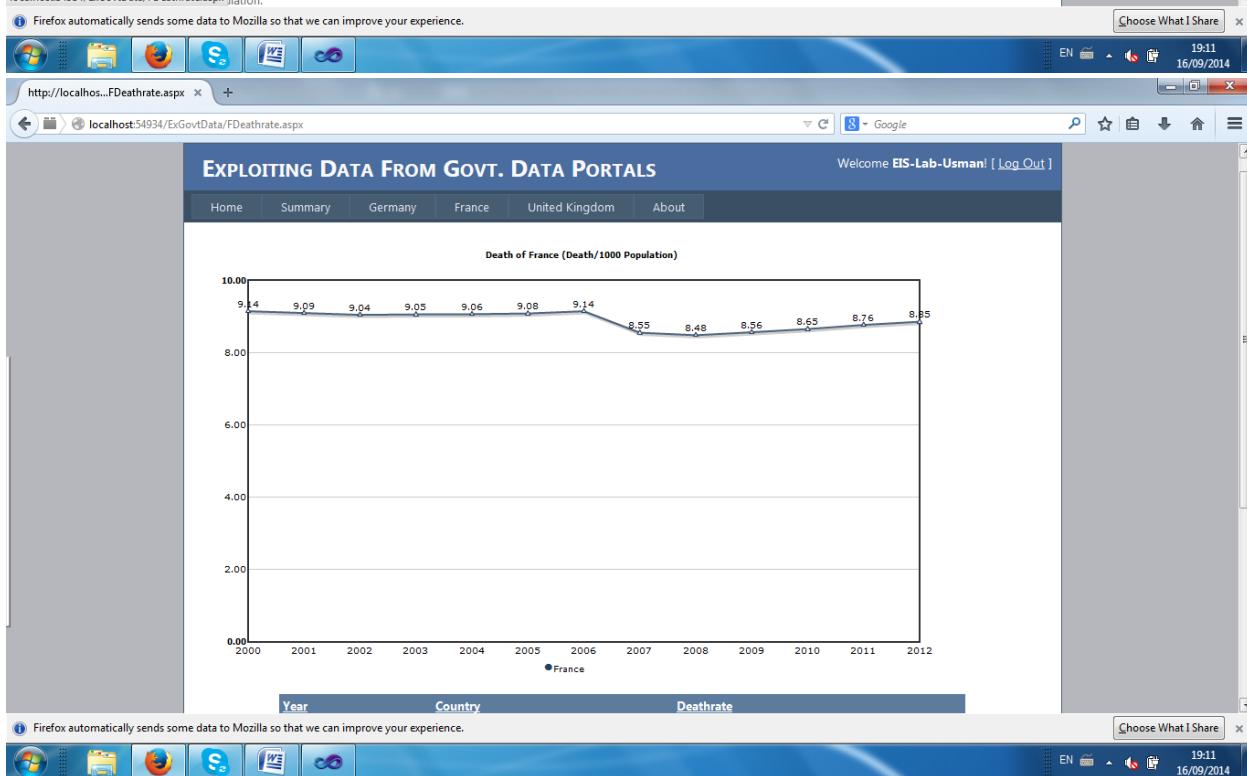
The average annual percent change in the population, resulting from a surplus (or deficit) of births over deaths and the balance of migrants entering and leaving a country. The rate may be positive or negative. The growth rate is a factor in determining how great a burden would be imposed on a country by the changing needs of its people for infrastructure (e.g., schools, hospitals, housing, roads), resources (e.g., food, water, electricity), and jobs. Rapid population growth can be seen as threatening by neighboring countries.

BIRTH RATE (BIRTH/1000 POPULATION)

This entry gives the average annual number of births during a year per 1,000 persons in the population at midyear; also known as crude birth rate. The birth rate is usually the dominant factor in determining the rate of population growth. It depends on both the level of fertility and the age structure of the population.

localhost:54934/ExGovtData/FDeathrate.aspx

Choose What I Share



The chart displays the death rate per 1,000 population for France from 2000 to 2012. The y-axis ranges from 0.00 to 10.00. The data points are:

Year	Country	Deathrate
2000	France	9.14
2001	France	9.09
2002	France	9.04
2003	France	9.05
2004	France	9.06
2005	France	9.08
2006	France	9.14
2007	France	8.55
2008	France	8.48
2009	France	8.56
2010	France	8.65
2011	France	8.76
2012	France	8.85

localhost:54934/ExGovtData/FDeathrate.aspx

Choose What I Share

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3.7 United Kingdom

3.7.1 Population

EXPLOITING DATA FROM GOVT. DATA PORTALS

Welcome EIS-Lab-Usman! [Log Out]

Home Summary Germany France United Kingdom About

Population

Population Density

Growth Rate

Birth Rate

Death Rate

WELCOME TO GOVT. DATA ANALYSIS AND V

Here you will Analysis and Visualize graphically as well as decreases and what is the Population density, growth rate. All of this data is available on the particular country's offic

POPULATION

The total number of persons inhabiting a country, city, or any district or area

POPULATION DENSITY

Number of people per square kilometer per unit Area

GROWTH RATE %

The average annual percent change in the population, resulting from a surplus (or deficit) of births over deaths and the balance of migrants entering and leaving a country. The rate may be positive or negative. The growth rate is a factor in determining how great a burden would be imposed on a country by the changing needs of its people for infrastructure (e.g., schools, hospitals, housing, roads), resources (e.g., food, water, electricity), and jobs. Rapid population growth can be seen as threatening by neighboring countries.

BIRTH RATE (BIRTH/1000 POPULATION)

This entry gives the average annual number of births during a year per 1,000 persons in the population at midyear; also known as crude birth rate. The birth rate is usually the dominant factor in determining the rate of population growth. It depends on both the level of fertility and the age structure of the population.

localhost:54934/ExGovtData/Default.aspx# population.

Choose What I Share

EN 19:12 16/09/2014

http://localhost:54934/ExGovtData/UPopulation.aspx

EXPLOITING DATA FROM GOVT. DATA PORTALS

Welcome EIS-Lab-Usman! [Log Out]

Home Summary Germany France United Kingdom About

Population of United Kingdom last Years

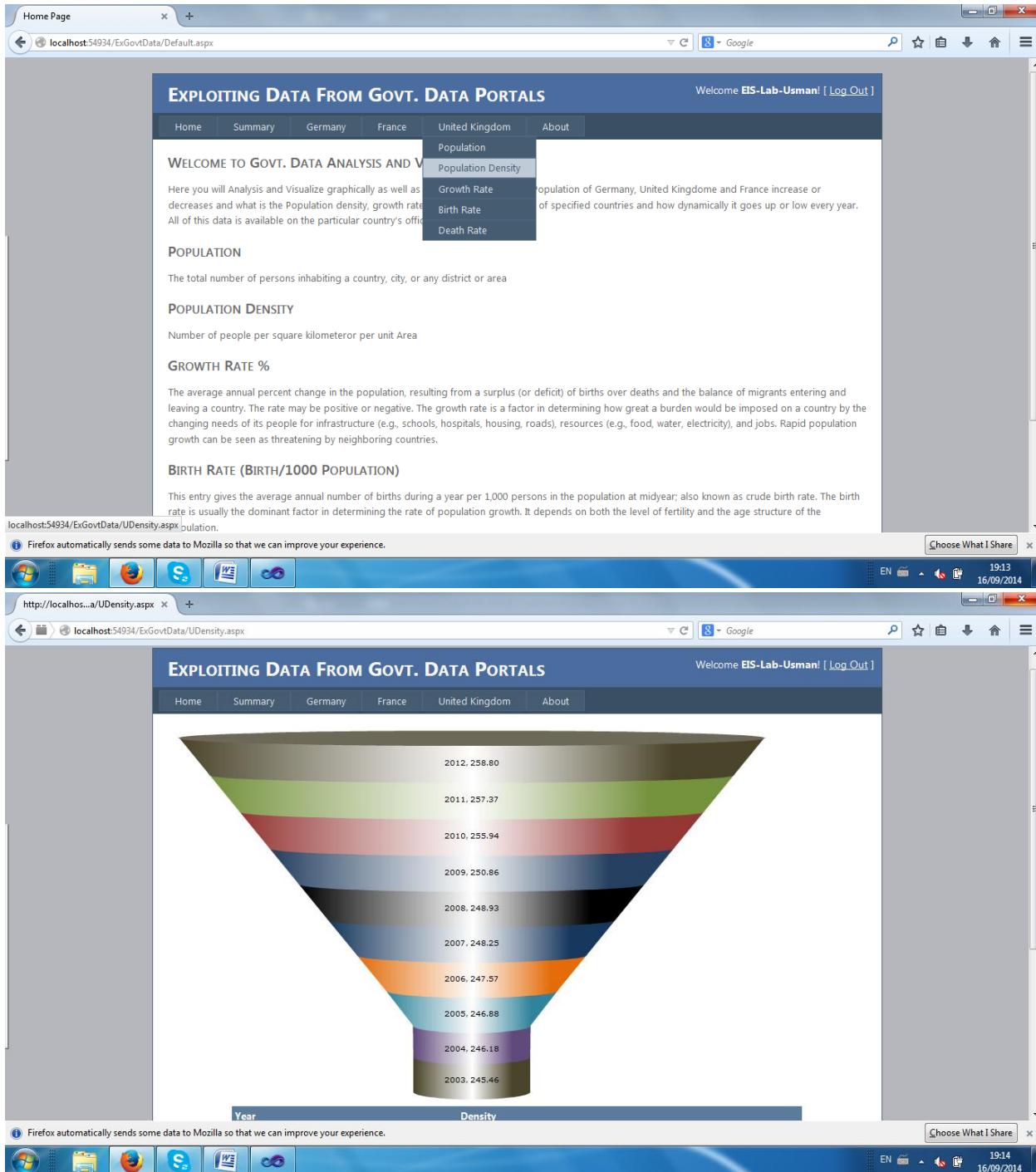
Year	Population
2003	59.51M
2004	59.65M
2005	59.78M
2006	60.09M
2007	60.27M
2008	60.44M
2009	60.61M
2010	60.78M
2011	60.94M
2012	61.11M
2013	62.35M
2014	62.70M
2015	63.05M

Choose What I Share

EN 19:13 16/09/2014

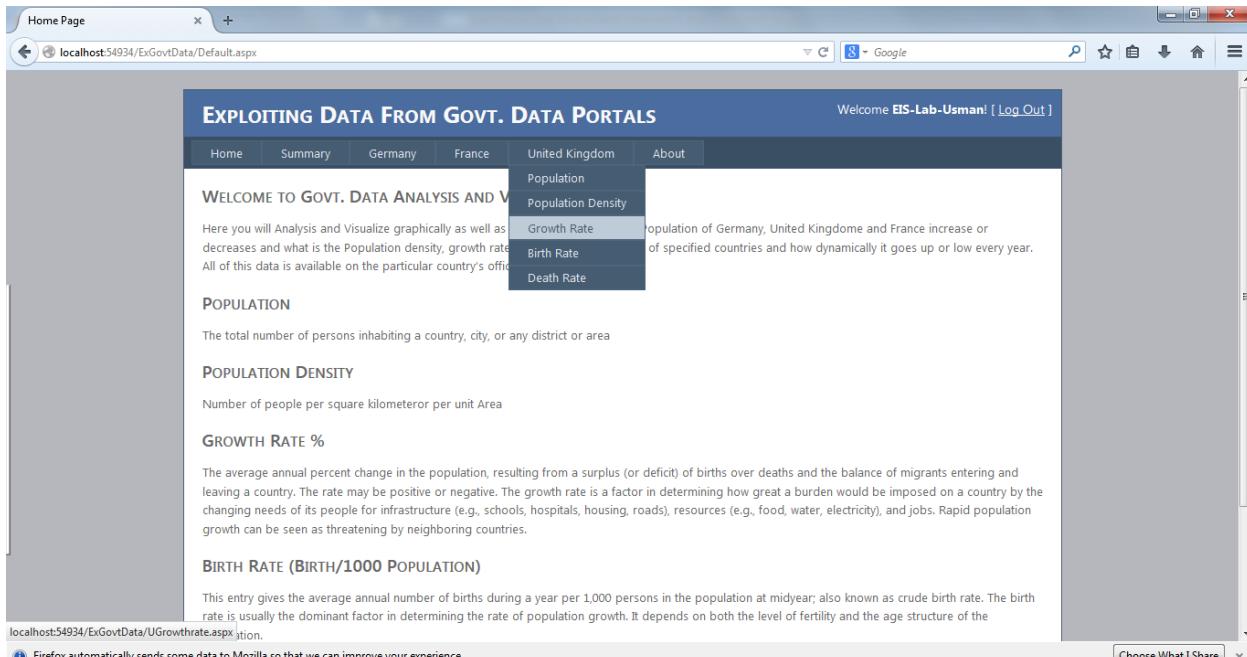
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3.7.2 Population Density

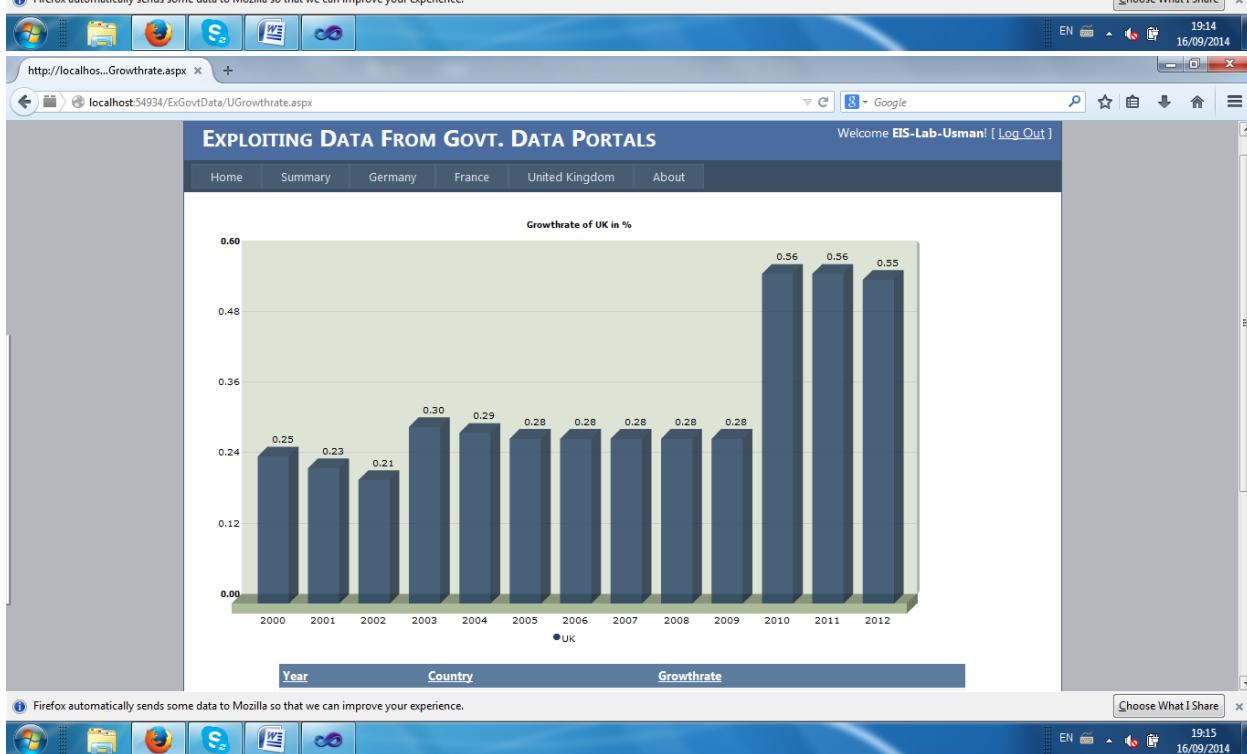


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3.7.3 Growth Rate



The screenshot shows a web browser window with the URL localhost:54934/ExGovtData/Default.aspx. The page title is "EXPLOITING DATA FROM GOVT. DATA PORTALS". The navigation bar includes links for Home, Summary, Germany, France, United Kingdom, and About. A dropdown menu under "United Kingdom" is open, showing options: Population, Population Density, Growth Rate (which is highlighted), Birth Rate, and Death Rate. The main content area is titled "WELCOME TO GOVT. DATA ANALYSIS AND VISUALIZATION". It contains sections for Population, Population Density, and Growth Rate %. Below these are detailed descriptions of each metric. At the bottom of the page, there is a note about Firefox sending data to Mozilla and a timestamp (19:14 16/09/2014).

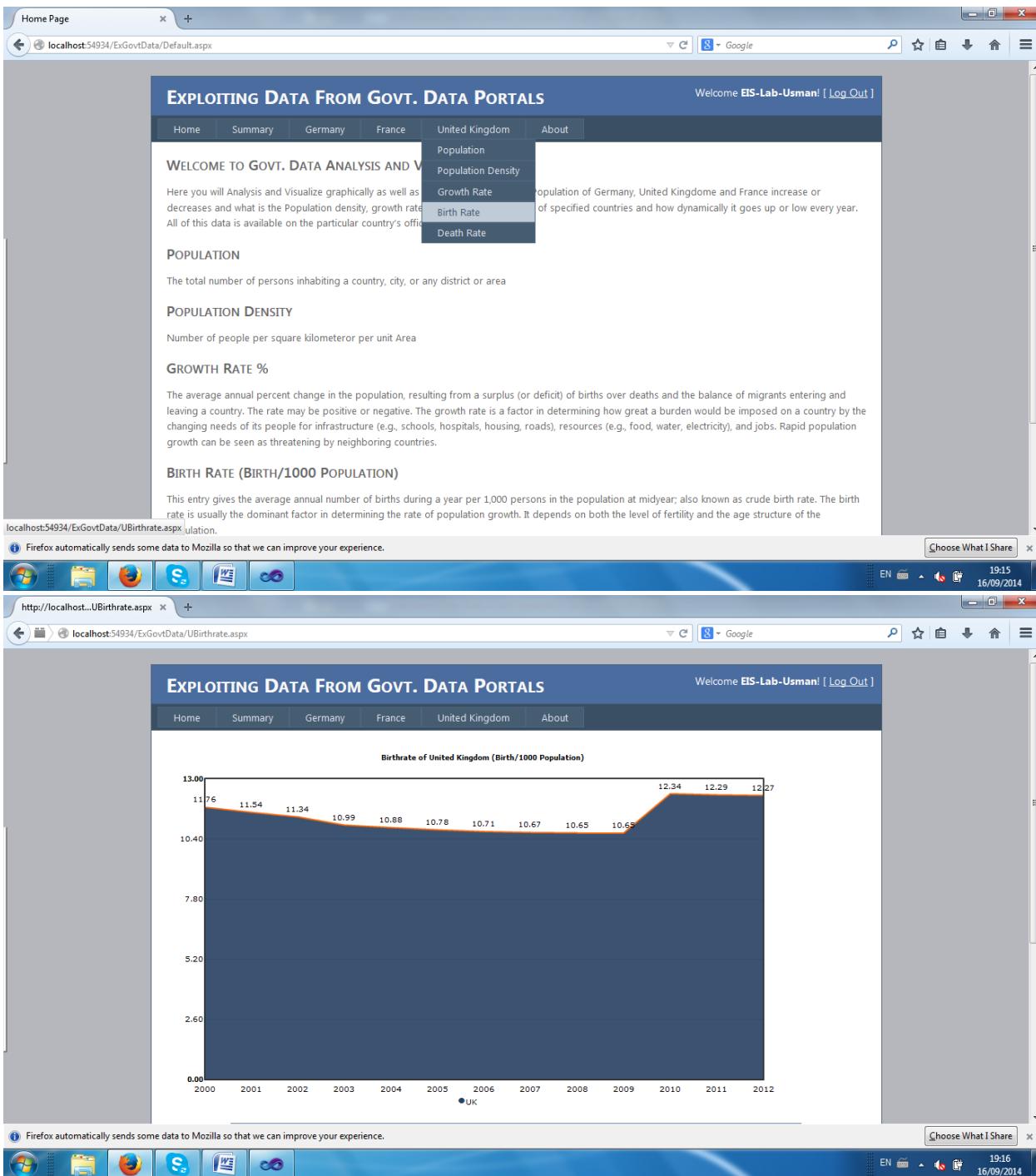


The screenshot shows a bar chart titled "Growthrate of UK in %". The Y-axis ranges from 0.00 to 0.60. The X-axis shows years from 2000 to 2012. Each bar has its value labeled on top. The chart is set against a background of a world map. Below the chart is a table with columns: Year, Country, and Growthrate. The "Year" column lists the years 2000 through 2012. The "Country" column has a single entry "UK". The "Growthrate" column lists the values corresponding to each year's bar. At the bottom of the chart area, there is a note about Firefox sending data to Mozilla and a timestamp (19:15 16/09/2014).

Year	Country	Growthrate
2000	UK	0.25
2001	UK	0.23
2002	UK	0.21
2003	UK	0.30
2004	UK	0.29
2005	UK	0.28
2006	UK	0.28
2007	UK	0.28
2008	UK	0.28
2009	UK	0.28
2010	UK	0.56
2011	UK	0.56
2012	UK	0.55

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3.7.4 Birth Rate



Data Analysis and Visualization 1.0 User Manual

3.7.5 Death Rate

The screenshot shows a web application titled "EXPLOITING DATA FROM GOVT. DATA PORTALS". The main menu includes Home, Summary, Germany, France, United Kingdom, and About. The "About" tab is currently selected. A sidebar on the right lists Population, Population Density, Growth Rate, Birth Rate, and Death Rate, with "Death Rate" being the active link. The main content area displays definitions for Population, Population Density, Growth Rate %, Birth Rate (Birth/1000 Population), and Death Rate. Below the definitions is a note about the death rate entry. At the bottom of the page is a Mozilla Firefox status bar.

WELCOME TO GOVT. DATA ANALYSIS AND V

Here you will Analysis and Visualize graphically as well as decreases and what is the Population density, growth rate All of this data is available on the particular country's offic

POPULATION

The total number of persons inhabiting a country, city, or any district or area

POPULATION DENSITY

Number of people per square kilometer per unit Area

GROWTH RATE %

The average annual percent change in the population, resulting from a surplus (or deficit) of births over deaths and the balance of migrants entering and leaving a country. The rate may be positive or negative. The growth rate is a factor in determining how great a burden would be imposed on a country by the changing needs of its people for infrastructure (e.g., schools, hospitals, housing, roads), resources (e.g., food, water, electricity), and jobs. Rapid population growth can be seen as threatening by neighboring countries.

BIRTH RATE (BIRTH/1000 POPULATION)

This entry gives the average annual number of births during a year per 1,000 persons in the population at midyear; also known as crude birth rate. The birth rate is usually the dominant factor in determining the rate of population growth. It depends on both the level of fertility and the age structure of the population.

localhost:54934/ExGovtData/UDeathrate.aspx

Choose What I Share x

EN 19:16
16/09/2014

http://localhost:54934/ExGovtData/UDeathrate.aspx x +

Welcome EIS-Lab-Usman! [Log Out]

EXPLOITING DATA FROM GOVT. DATA PORTALS

Home | Summary | Germany | France | United Kingdom | About

Death of United Kingdom (Death/1000 Population)

Year	Country	Deathrate
2000	UK	10.98
2001	UK	10.35
2002	UK	10.30
2003	UK	10.21
2004	UK	10.19
2005	UK	10.18
2006	UK	10.13
2007	UK	10.09
2008	UK	10.05
2009	UK	10.02
2010	UK	9.33
2011	UK	9.33
2012	UK	9.33

Choose What I Share x

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16/09/2014

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3.8 About US

Here you can see the information about us; who is the Supervisor of Exploiting Data from Govt. Data Portals and who mentored it and who is the developer of this Data Analysis and Visualization Tool.

The screenshot shows a Firefox browser window with the URL localhost:54934/ExGovtData/About.aspx. The page title is "EXPLOITING DATA FROM GOVT. DATA PORTALS". The top right corner shows a welcome message for "EIS-Lab-Usman" with a "[Log Out]" link. The main content area is titled "ABOUT US" and contains the following text:
This Data Analysis and Visualisation tool is developed in Enterprise Information System LAB during Summer Semester 2014 "Exploiting Data From Govt. Data Portals"
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