

APPLICATION DESIGN

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1. Start on home page with option to go to 3 different pages:
 - a. Display top average tourist arrivals per country or region chart page
 - b. Trends page which shows a graph for each country for the last 10 recorded years
 - c. Post/view existing hotel locations section2.
2. A search bar present on the top right of every page, allowing alphanumeric keyword search for any country.
 - If the keyword matches a country name, search results of the matching country names are displayed. When a country result is clicked, user is direction to the 1b) section where the chart for the searched country or region is shown.
 - If keyword does not match any country, error code: 404: not found error is thrown.

1a. Display top average tourist arrivals per country or region chart page

- Directed to a page where the user has 2 options: search by user or search by country.
- Home button always present and if clicked, returns user to home page

For Search by country:

- Display bar chart showing the top 20 countries (bars) with highest average tourist arrivals (calculated from the last 10 recorded years).
- The top country can be shown by moving a slider, displaying a .jpeg of the requested chart.
- The slider can be moved between 1 to 20 to show the top 1 to 20 countries in a chart.
- A .jpeg of the requested chart for each of the cases above is generated with data from the Tourism_prepare.csv dataset.

For Search by region:

- Display bar chart showing the top 7 regions (bars) with highest average tourist arrivals (calculated from the last 10 recorded years) - a .jpeg of the requested chart generated with data from the Tourism_prepare.csv dataset.
- The top region can be shown by moving a slider, displaying a .jpeg of the requested chart.
- The slider can be moved between 1 to 7 to show the top 1 to 7 regions in a chart.
- A .jpeg of the requested chart for each of the cases above is generated with data from the Tourism_prepare.csv dataset.

Home button returns user to home page

1b. Trends page which will show a graph for each country for the last 10 recorded years.

- User starts by seeing a search bar and a blank section where the charts will appear after search.
- When a user searches an alphanumeric keyword that matches the name of a country, they country data is requested and a graph is displayed for the particular showing the number of arrivals on the y axis and the year on the x axis for the last 10 recorded years.
- Home button returns user to home page

1c. Post/view existing hotel locations address and contact details.

- Initially a user is presented with a page showing already posted hotel locations by business owners, containing basic contact information of the hotel owners, including name, business name, email address and business phone number so a user who is for example, a restaurant owner, can contact them to open a restaurant nearby.
- There is a post button, that a hotel owner can click which redirects them to a login page:
 - There is the option to login where the user can enter username (email) and password or to create an account which asks for user to enter name, business name, email address, business phone number and personal phone number (optional).
 - If the account username (email) matches records and password doesn't match, user is prompted to a send link to reset password to their email.
 - If the account login details are correct and match records, then the user is redirected to the post page.
 - The user can post location address and an optional image of an existing hotel location and country.
 - If account login details do not match records/are not correct, then user is prompted to create an account section.

Classes:

User