# Scope

## 2.1 Items within scope

* Travelers are Melbourne based, therefore flights originate from Melbourne Airport
* Can select travel locations to the top 50 most popular countries
* Users can choose the month they wish to travel
* Show the border status of the 50 countries
* Users can view an expenditure breakdown of their country of choice (accommodation, food, transport, etc.)
* Users can compare airfares between Airlines that travel to their country of choice
* All the visuals are access and viewed on a website

## 2.3 Items out of scope

* Users having the option to select any location
* Users having the option to select a specific day and time they wish to depart
* Selecting other departure locations different from Melbourne Airport
* Expenditure breakdown doesn’t take into account prior expenses such as travel insurance, or unforeseen expenses such as theft, health or disaster emergencies.

# Functional Requirements

|  |  |  |
| --- | --- | --- |
| No | Requirement | Notes |
| FR01 | **Allows users to select the month they wish to travel to.** | Date ranges between the past ten years to the next ten forecasted years |
| FR02 | **Users can click on the 50 locations to view more details on that country** | As user clicks on a country, there will be an automatic filter function that shows data only for that country |
| FR03 | **Users can view an expenditure breakdown of their selected country** | Expenditure breakdown will show average accommodation, transport and food costs. |
| FR04 | **Users can compare airfares between three airlines that travel to their country of choice.** | These airlines will be international flights that are operating from Melbourne Airport (Qantas, Jetstar and Singapore Airlines) and will using past data |
| FR05 | **Show the border status of the 20 countries** | Shows whether it’s open (no restrictions), open with restrictions, or closed. |
| FR06 | **Popup details should appear as user hovers the mouse pointer over a piece of data** | Popup details should present a summary of the data point |
| FR07 | **Hyperlinks to original data sources** | Hyperlinks will be part of a reference list at the bottom of the website page |
| FR08 | **Website can be accessed through organic Google search** | Will need to have to be searched by its domain name |
| FR09 | **Website page can be refreshed** | Refresh speed should be under 3 seconds |
| FR10 | **Easy to use on different technologies** | Website works on multiple devices. (e.g. Phone, tablet, laptop) |
| FR11 | **Compatible with multiple browsers** | Can be accessed on different browsers such as Chrome, Microsoft Edge, Firefox. |

# Data Requirements

|  |  |  |
| --- | --- | --- |
| No | Requirement | Notes |
| FR012 | **Number of international arrivals for each selected 50 countries** | Ideally should have data for each month – this will be used to determine the most popular times to travel to that country |
| FR13 | **Average airfares of outbound flights from Melbourne Airport** | Should select data for main Airlines such as Qantas, Jetstar, Virgin, Singapore Airlines |
| FR14 | **Average tourism expenditures from that country** | Ideally should include have different expenditure categories such as accommodation, transport, etc. |
| FR15 | **International border status of the 50 countries** | Might be qualitative data. |

# Non-Functional Requirements

|  |  |  |
| --- | --- | --- |
| **No** | **Requirement** | **Notes** |
| **NFR01** | **UI and visualizations should be clean** | Big short titles, colors that match yet contrast, information that can be understood with some inference |
| **NFR02** | **Is user-friendly** | Users should be able to use all visualization and dynamic visual functions within the first 10 minutes |
| **NFR03** | **Image components should have good resolution** | Should be clear (at least 72 PPI), not pixelated |
| **NFR04** | **Fast component response rate** | Buttons and links should respond withing 1.5 seconds |
| **NFR05** | **Fast website load time** | Website page should load within three seconds |
| **NFR06** | **Primary data stored confidentially** | Preferably the database/spreadsheet holding primary data won’t be accessible through website hyperlinks |
| **NFR07** | **Data is reliable and acknowledged if from other sources** | The data used should have been collected from recent years – perhaps with an exception for years during lockdown |
| **NFR08** | **The information will follow the Australian Privacy Principles** |  |
| **NFR09** | **The graphs will be proportionate to the sizes required** | e.g., the size of the US will not be made uncharacteristically larger unless it is relevant to how the data is shown |