

PROJECT REPORT

➤ INTRODUCTION:

- **Overview:**

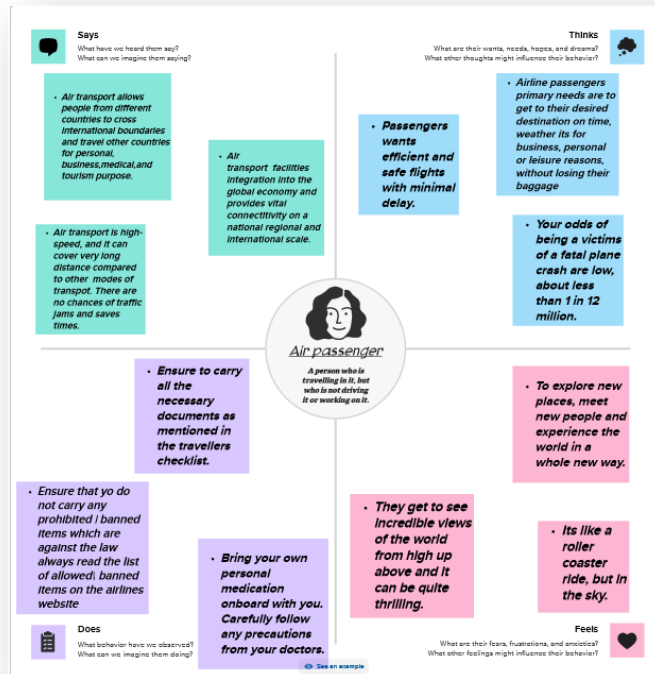
This project helps to known information about airports in the world and it keeps analysts interested throughout the project. The project also talks about the future changes in aviation and the needs of air passengers.

- **PURPOSE:**

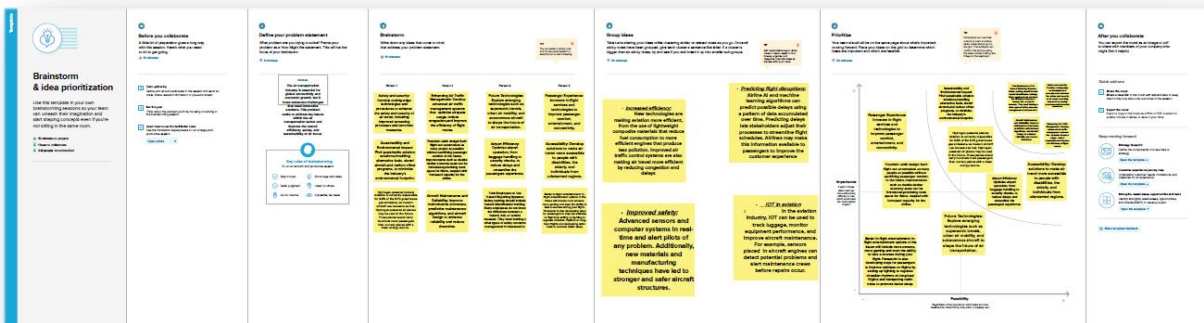
In future, the necessary and advanced measures for the safety and security of passengers on flights have been mentioned in this project. Air ticket prices are very high because aviation fuel is expensive and it pollutes the environment this project suggests ways to avoid this, such as hydrogen powered planes.

➤ PROBLEM DEFINITION & DESIGN THINKING:

+ EMPATHY MAP:



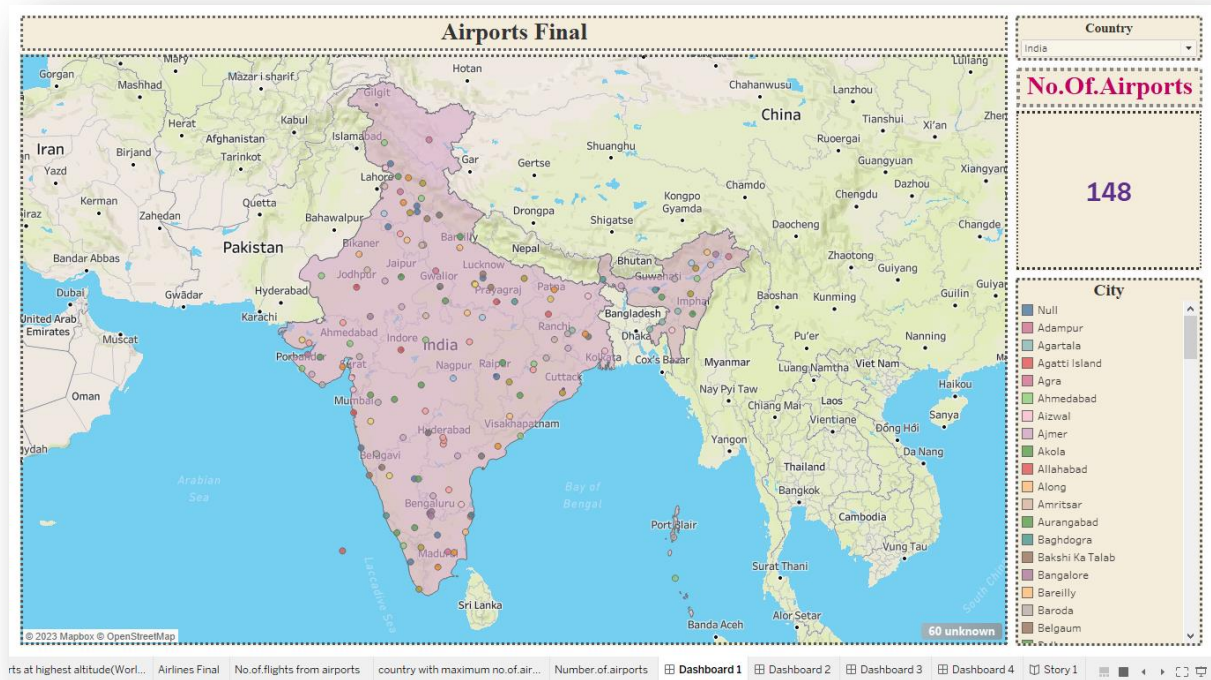
+ BRAINSTORMING MAP:



➤ RESULT:

- **Screen shots:**

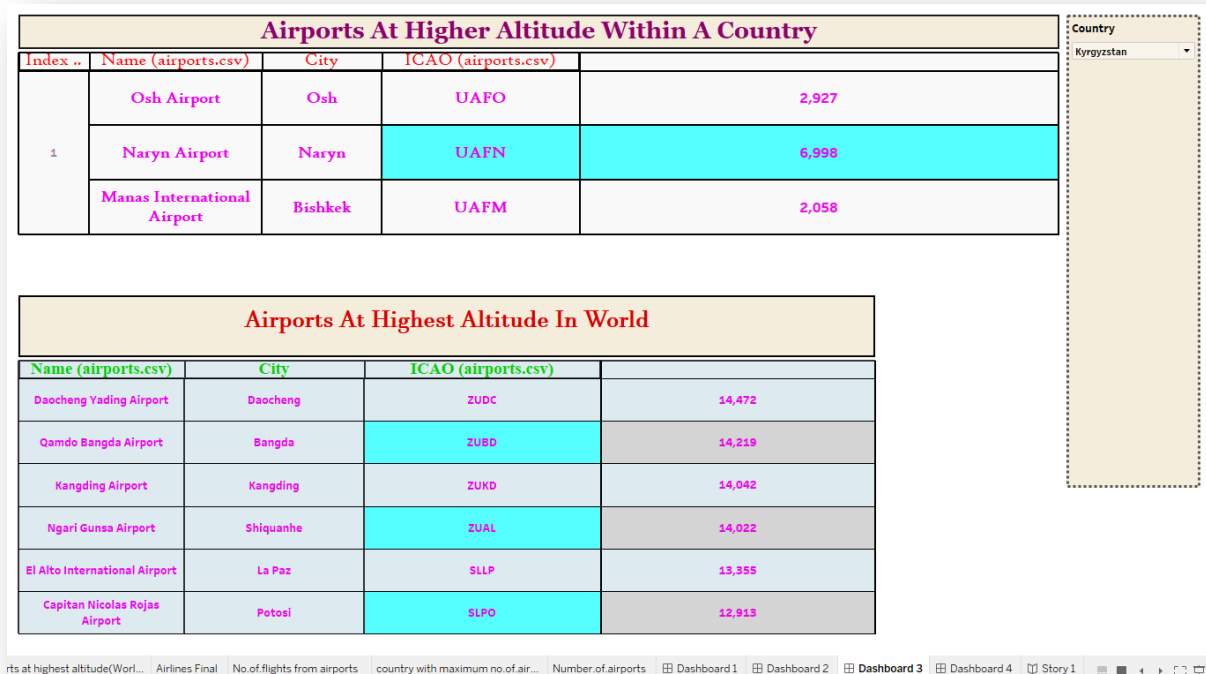
Dashboard 1:



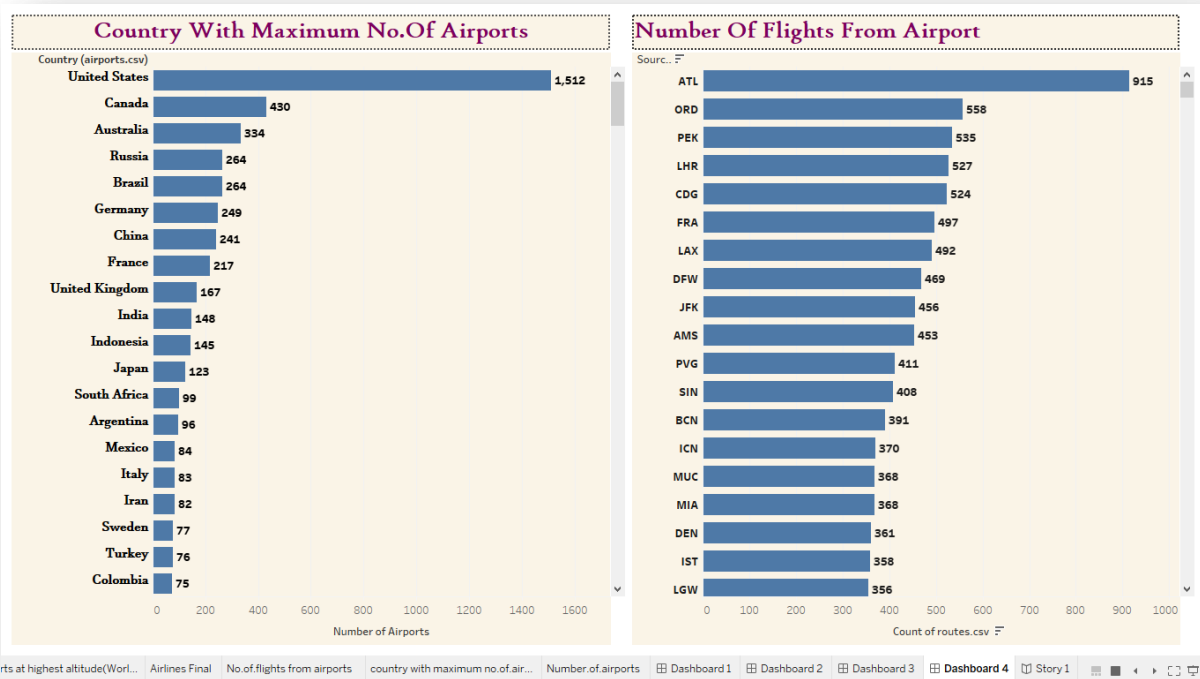
Dashboard 2:



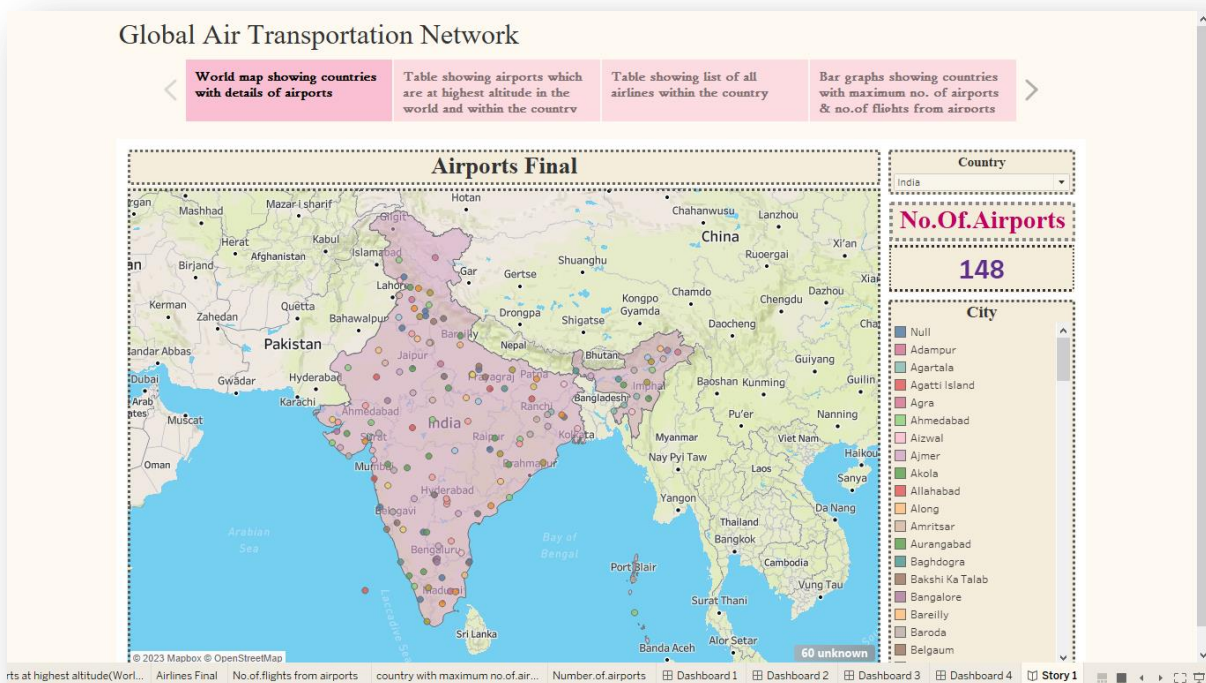
Dashboard 3:



Dashboard 4:



Story :



Global Air Transportation Network

- World map showing countries with details of airports
- Table showing airports which are at highest altitude in the world and within the country
- Table showing list of all airlines within the country
- Bar graphs showing countries with maximum no. of airports & no.of flights from airports

Airports At Higher Altitude Within A Country				
Index ..	Name (airports.csv)	City	ICAO (airports.csv)	
1	Osh Airport	Osh	UAFO	2,927
	Naryn Airport	Naryn	UAFN	6,998
	Manas International Airport	Bishkek	UAFM	2,058

Airports At Highest Altitude In World			
Name (airports.csv)	City	ICAO (airports.csv)	
Daocheng Yading Airport	Daocheng	ZUDC	14,472
Qamdo Bangda Airport	Bangda	ZUBD	14,219
Kangding Airport	Kangding	ZUKD	14,042
Ngari Gunsa Airport	Shiquanhe	ZUAL	14,022
El Alto International Airport	La Paz	SLLP	13,355
Capitan Nicolas Rojas Airpo...	Potosi	SLPO	12,913

Country

Kyrgyzstan

Global Air Transportation Network

- World map showing countries with details of airports
- Table showing airports which are at highest altitude in the world and within the countrv
- Table showing list of all airlines within the country
- Bar graphs showing countries with maximum no. of airports & no.of flights from airports

Airlines Within a Country				
Airline ID	Name	Icao	Callsign	
3200	LAN Airlines	LAN	LAN	
3204	LAN Express	LXP	LANEX	
4737	Sky Airline	SKU	AEROSKY	
9851	Air Comet Chile	NC	Null	
10650	Pal airlines	PN	Null	
19827	Regionalia Chile	CR1	Null	
19971	All America CL	R1R	Null	
20218	Tomp Airlines	T9P	Null	

Active

Y

No.Of.Airports

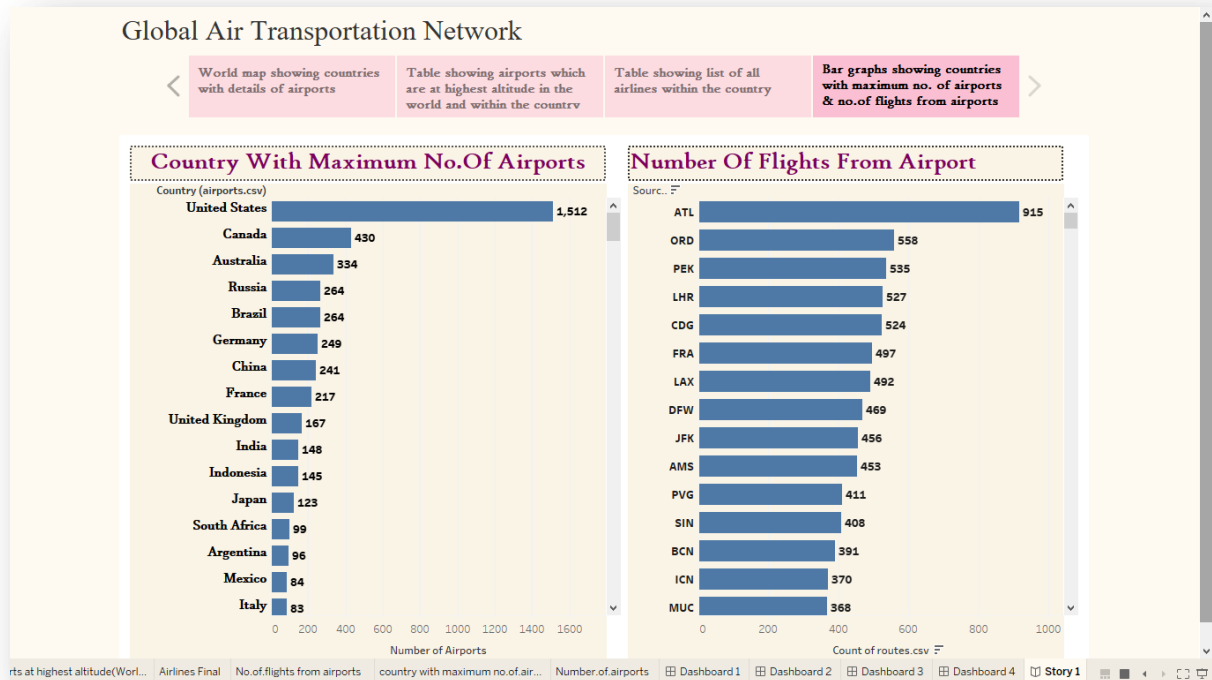
8

Active

Y

Country

Chile



➤ ADVANTAGES & DISADVANTAGES:

The main advantage of this project is that it is clear and understandable to the viewer. It gives idea to develop advanced air traffic management systems that optimize airspace usage, reduce congestion and improve the efficiency of flight routes. It gives information about the number of airports in a country, their name, IATA and ICA codes. It gives information about development in flight such as hydrogen powered planes, safety and security, train employees to use hazard reporting system etc.. It tells whether an airline in a country is currently in use or not.

The disadvantages of this project is that it lacks information about flight ticket rate and take off, landing time it also does not provide information about flight routes.

➤ **APPLICATIONS:**

Our solution tends to be a base for future analyses about the air transportation. The information about this project is very use full to future generation to get information about the airplanes and airlines. It suggests ways to innovate airline services and technologies to improve passenger comfort, entertainment and connectivity.

➤ **CONCLUSION:**

The overall project improves our knowledge about the global air transportation and also about the number of airports and details about it in a country.

This global air transportations network dataset is a comprehensive collection of information on airports, airlines and their routes. It contains information such as names, cities, countries, codes (IATA and ICAO)

longitudes, latitudes and altitudes of airports across the world with detailed time zone and daylight saving time data.

Additionally, this includes information about airlines including their IDs, name aliases, IATA and ICAO codes, call signs country of origin and active /inactive status.

➤ **FUTURE SCOPE:**

The program suggests ways develop sophisticated technologies and procedures to improve the safety and security of air travel, including improved screening processes for counter terrorism measures.

It also gives idea to explore sustainable aviation solutions including alternative fuels, electric aircraft and carbon offset programs to reduce the industry's environmental footprint.

It gives idea to each flight can accommodate as many people as possible without sacrificing passenger comfort. In the future, improvements such as double decker economy seats can be introduced, promising more space for riders, coupled with increased capacity for the airline.