

**Title: Ready for Take-Off**

**Qn: Will Singapore Changi Airport be able to recover after COVID?**

**Audience: People who are looking forward for travel to return to normal**

<b><u>Background</u></b>	Due to the pandemic there has been a disruption to air travel due to the increased restrictions set forth by many countries. Singapore Changi airport has been one such country that has seen the effects of a such decrease in air travel and traffic to our once busy air hub. This story would seek to learn more about how air travel has changed since the start of covid and investigate whether there is hope for air travel. We will then investigate whether there is a relationship between this recovery and ticket prices.
<b><u>Analysis</u></b>	I will be analysing this by looking at passenger and aircraft movement at Singapore Changi airport. I will seek to draw trends between the peak of the pandemic and the corresponding passenger and aircraft movement during that period. Thereafter, I will investigate whether we can see a decrease in flight prices as the flights to Singapore start to increase and the borders open
<b><u>Recommendation</u></b>	
<b><u>Data</u></b>	<ul style="list-style-type: none"><li>a. <a href="https://www.statista.com/statistics/867835/singapore-number-of-passengers-changi-airport/">https://www.statista.com/statistics/867835/singapore-number-of-passengers-changi-airport/</a></li><li>b. <a href="https://ourworldindata.org/covid-cases">https://ourworldindata.org/covid-cases</a></li><li>c. <a href="https://www.statista.com/statistics/1045358/singapore-number-of-passengers-in-transit-changi-airport/">https://www.statista.com/statistics/1045358/singapore-number-of-passengers-in-transit-changi-airport/</a></li><li>d. <a href="https://www.changiairport.com/corporate/our-expertise/air-hub/traffic-statistics.html">https://www.changiairport.com/corporate/our-expertise/air-hub/traffic-statistics.html</a></li></ul>
<b><u>Problem Statement</u></b>	Covid-19 has impacted air travel, making it more difficult and expensive to travel to other countries compared to Pre-Covid.
<b><u>Findings</u></b>	

Scene:	Description:	Data and features used:
1.	Thomas goes to Changi Airport and laments how air travel has been over the years	2. Increase in COVID-19 spread a. <a href="https://ourworldindata.org/covid-cases">https://ourworldindata.org/covid-cases</a>  3. Decrease in passenger movement a. <a href="https://www.statista.com/statistics/867835/singapore-number-of-passengers-changi-airport/">https://www.statista.com/statistics/867835/singapore-number-of-passengers-changi-airport/</a>  4.
2.	Thomas looks around and is shocked to see how bustling the airport is and is in awe that many people are out and travelling.  We start to look at <b>Pre-covid</b> Changi airport	1. Increase in passenger movement a. <a href="https://www.statista.com/statistics/1045358/singapore-number-of-passengers-in-transit-changi-airport/">https://www.statista.com/statistics/1045358/singapore-number-of-passengers-in-transit-changi-airport/</a> 2. Increase in aircraft movement a. <a href="https://www.changiairport.com/corporate/our-expertise/air-hub/traffic-statistics.html">https://www.changiairport.com/corporate/our-expertise/air-hub/traffic-statistics.html</a>
3.	We will see the effects of Covid on Changi airport <b>During Covid</b>	1.
4.	We will see how Changi Airport Recovers from covid <b>Post Covid</b>	1. <a href="https://www.oag.com/busiest-routes-right-now">https://www.oag.com/busiest-routes-right-now</a> 2.
5.	<b>But has travel changed due to the pandemic?</b> <ul style="list-style-type: none"> <li>- I am gonna analyse the change in price and flight frequency and analyse the affordability in relation to pre-covid levels</li> <li>- Hindsight: Covid has made travel less accessible to everyone (you can't travel to as many countries and even if you do it is expensive)</li> </ul>	

## Implementation of Concepts:

Week:	Concept :	Implementation:	Line Number :	Filename:
Week 2 - Basic HTML website Setup	Div Headers	Usage of HTML, CSS and Javascript to make the website and allow it to fit the aesthetics I want. I will also learn how to adapt codes I find on the web to suit the needs and functions of my website.		Index.html appscripts.css
Week 3 - Using JS to give functions to my website	Changing Font Background			
Week 4 - Functions	Creating Charts	<p>“Var” is used to help in my graph creations.</p> <p>I also plan to include a feedback session at the end of the page where viewers can select whether they passed covid and are ready to travel.</p>		main.js
Week 5 - Event	Button	I will be using a button feature at the start of the story to allow people to enter and view the situation at different points.		index.html
Week 6 - Loop	EventListener	I want to create an event listener where when I scroll down, a plane moves across the screen from left to right.		
Week 7 - Charts	Line, Bar, Pie Charts Geographical charts (possibly)	<p>Charts will be used throughout the story to compare the trends.</p> <ol style="list-style-type: none"> <li>Increase in covid cases (Line chart)</li> <li>Airports with strict airport regulations (geographical chart)</li> </ol>		main.js
Week 8 - Datasets				
Week 9 - Fetch				

		3. Decrease/Increase in aircraft movement (Line chart) 4. Decrease/Increase in passenger movement (line chart) 5. Popular countries to travel to post-covid (Bar Chart) 6. Price of tickets over time (Line Chart)		
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**Additions:**

Week	Changes	Why
10	I created a header that moves with the website when I scroll. This allows users to click the different buttons which follow them when they view the website and what to go to specific points.	I got the inspiration for this from another website and found that it allows users to easily compare the results like I want between pre, during and post covid which will enhance the experience when they are trying to form links.

## **Week 10 Questions :**

### **1. What is your project about?**

Travel Recovery

### **2. What is the data you plan to use?**

<https://www.statista.com/statistics/867835/singapore-number-of-passengers-changi-airport/> [This shows the change in passenger traffic in Changi Airport over an 8-year period, right before COVID]

<https://www.oag.com/busiest-routes-right-now> [this data was to show that Singapore still remains 2 of the 5 busiest international airport routes in the world with regards to seat number]

<https://ourworldindata.org/covid-cases> [will use this to show an increase in COVID-19 infections and the corresponding passenger and flight levels]

\*\*Have changed my original data set and am still looking for new additions\*\*

### **3. What is the question you plan to answer?**

Will Changi Airport be able to recover fully after COVID-19?

### **4. Why is this an important question?**

Tourism remains one of the main pillars of Singapore's economy and Singapore has continued to provide travellers with a unique experience immediately as you step into Singapore Changi Airport (Singapore Tourism Board). After losing its spot to Doha Airport as the World's Best Airport during COVID-19, Singapore Changi Airport has once again reclaimed its title as the World's Best Airport for the 12th year (Skytrax, 2023) and has even taken over Hong Kong International Airport to become the busiest airport in Asia post covid (Simple Flying). But I want to investigate whether things have changed before and after COVID-19.

<https://www.channelnewsasia.com/singapore/big-read-singapore-tourism-sector-covid-19-fallout-977476>

<https://simpleflying.com/singapore-changi-becomes-asias-busiest-airport/>

<https://www.worldairportawards.com/the-worlds-top-10-airports-of-2023/>

### **5. Which rows and columns of the dataset do you plan to use, to answer this question?**

Since I am using various datasets, I will be using the values that are relevant to the scenario I will be explaining, mainly focusing on passenger numbers and aircraft movement specific to Changi Airport.

## Challenges:

### Week 10 :

1. Finding a dataset is more difficult than expected
  - a. Although I found some datasets, the files have over 10,000 over datapoints which makes it difficult to filter and give insights
  - b. Finding dataset to show change over a significant amount of time (years) have proved to be difficult as I have only been able to find changes over 1-2 years of months.
2. Finalising formatting
  - a. I have been getting inspiration over the past few weeks from various websites and that has led to various changes in terms of colour pallet or what I want to be present on my website
  - b. I also have found it abit overwhelming when dealing with a complete website as you need to know exactly where you need to place certain elements and how to give yourself notes to remember what certain functions or codes do.