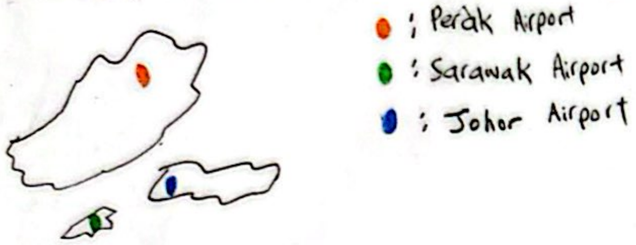
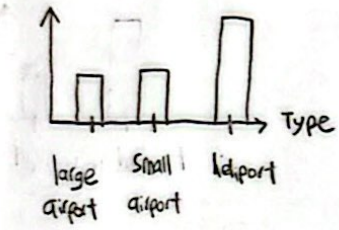
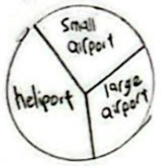
IDEAS

1) Location Distribution Map (Latitude and Longitude)

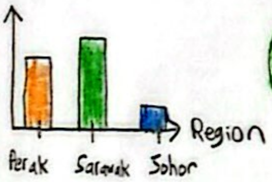

● : Perak Airport
● : Sarawak Airport
● : Johor Airport

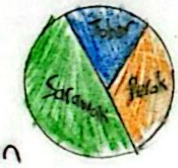
2) Type Distribution .

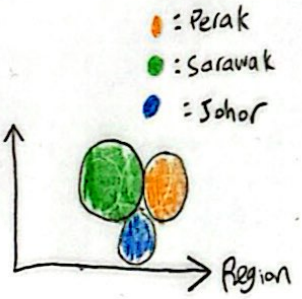




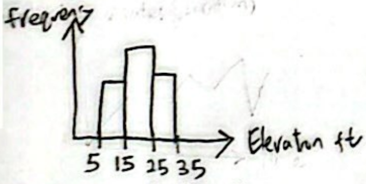
3) Region Distribution



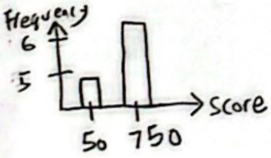


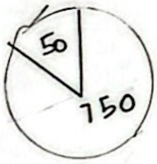


4) Elevation Distribution



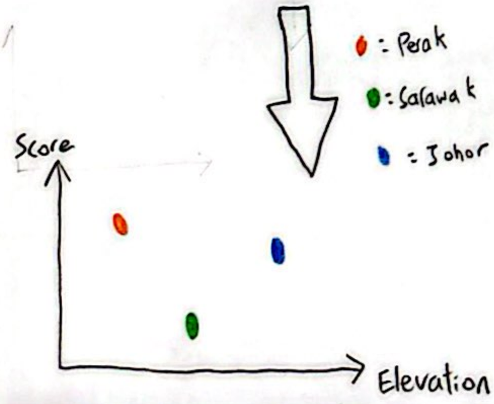
5) Score Distribution





COMBINES & REFINE

Score Distribution + Elevation Distribution



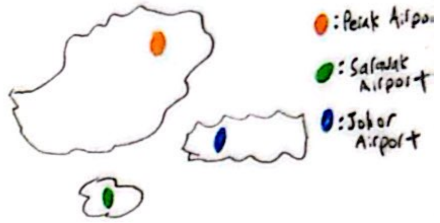
QUESTION

1) Are this visualization useful for aviation industry developers?

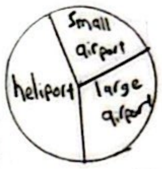
2) Is this visualization primarily for decision makers (government) or general users (public)

FILTER

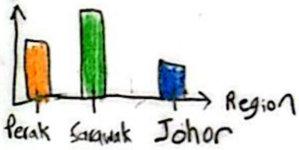
1) Location Distribution Map (Latitude & Longit


● : Perak Airpo
● : Sarawak Airport
● : Johor Airport

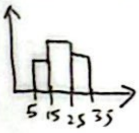
2) Type Distribution



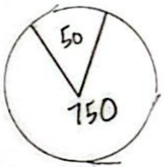
3) Region Distribution



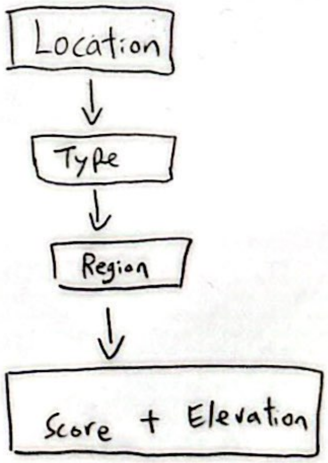
4) Elevation Distribution



5) Score Distribution

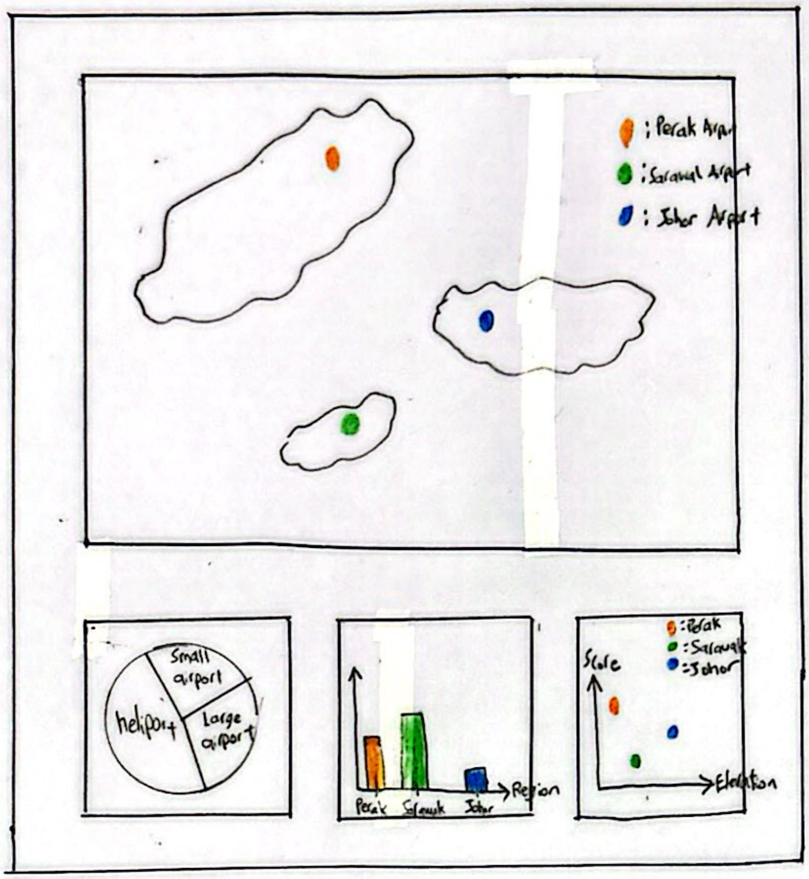


CATEGORIZE


Location
Type
Region
Score + Elevation

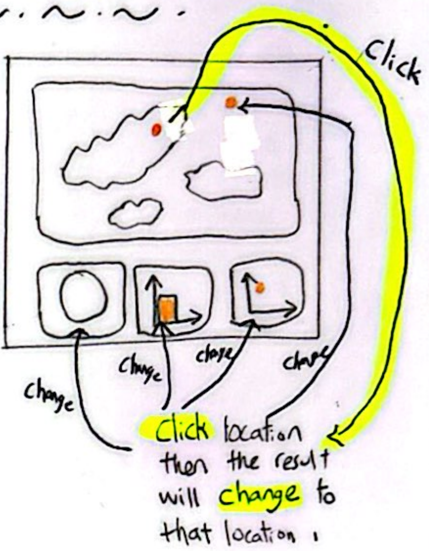
LAYOUT

Dashboard View 1


: Perak Airp
: Sarawak Airport
: Johor Airport
Small airport
heliport
Large airport
Perak
Sarawak
Johor
Region
Score
: Perak
: Sarawak
: Johor
Elevation

TITLE: Dashboard View 1
AUTHOR: Lew Jing Wen
DATE: 12/9/2024
SHEET: 2
TASK: Airport Visualization

OPERATION:

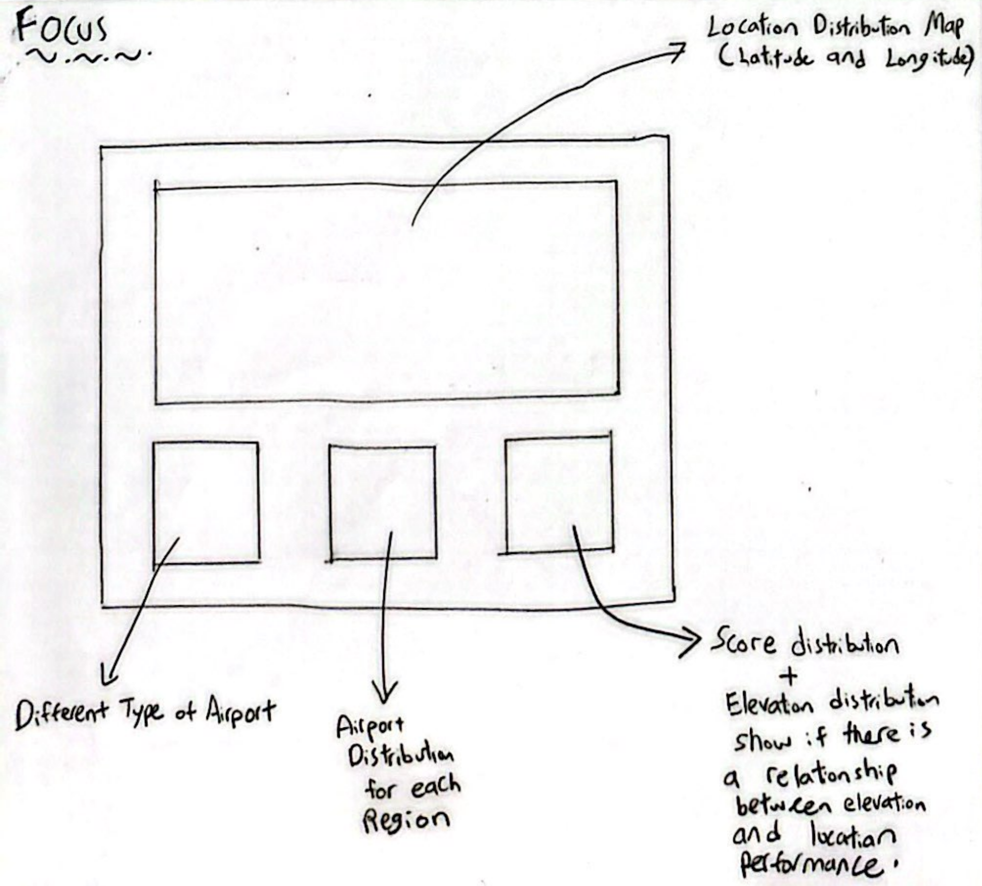

Click
Change
Change
change
change

Click location then the result will change to that location.

DISCUSSIONS:

- Lacks of clear context, Users might be confuse about its purpose
- Less interactive with users.

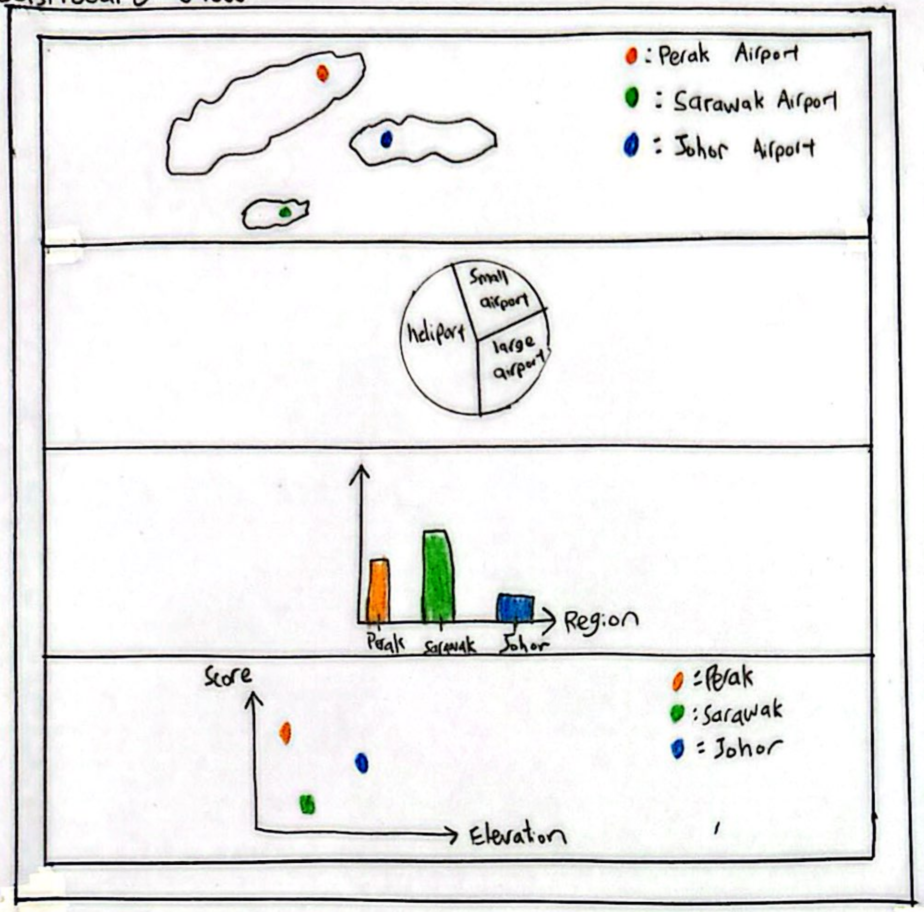
FOCUS


Location Distribution Map (Latitude and Longitude)
Different Type of Airport
Airport Distribution for each Region
Score distribution + Elevation distribution show if there is a relationship between elevation and location performance.

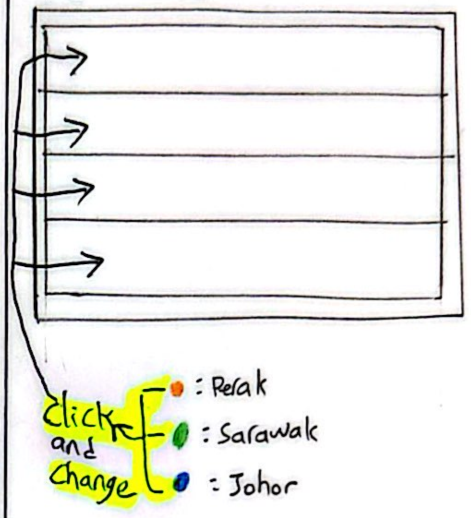
TITLE : Dashboard View 2
AUTHOR : Lew Jing Wen
DATE : 12/9/2024
SHEET : 3
TASK : Airport Visualization 2

LAYOUT

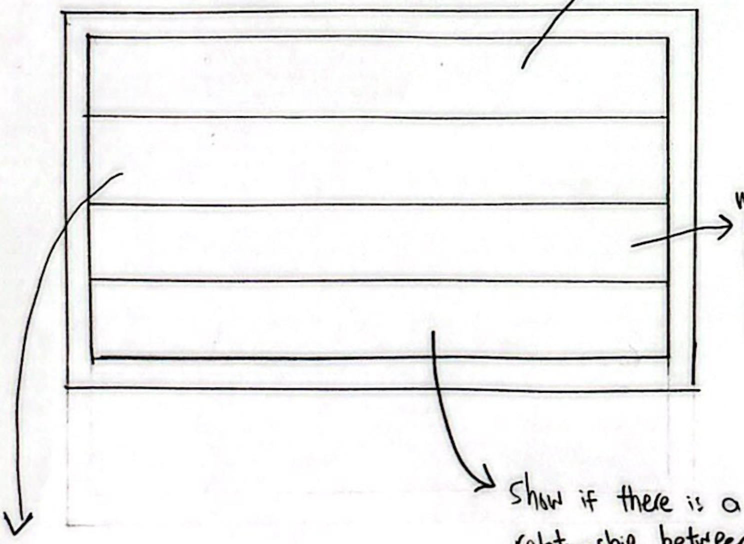
Dashboard View


: Perak Airport
: Sarawak Airport
: Johor Airport
Small airport
heliport
large airport
Region
Perak
Sarawak
Johor
Score
: Perak
: Sarawak
: Johor
Elevation

OPERATION :


Click and Change
: Perak
: Sarawak
: Johor

FOCUS



Location Distribution Map (Latitude and Longitude)

Which region have more or fewer airport

Show if there is a relationship between elevation and location performance.

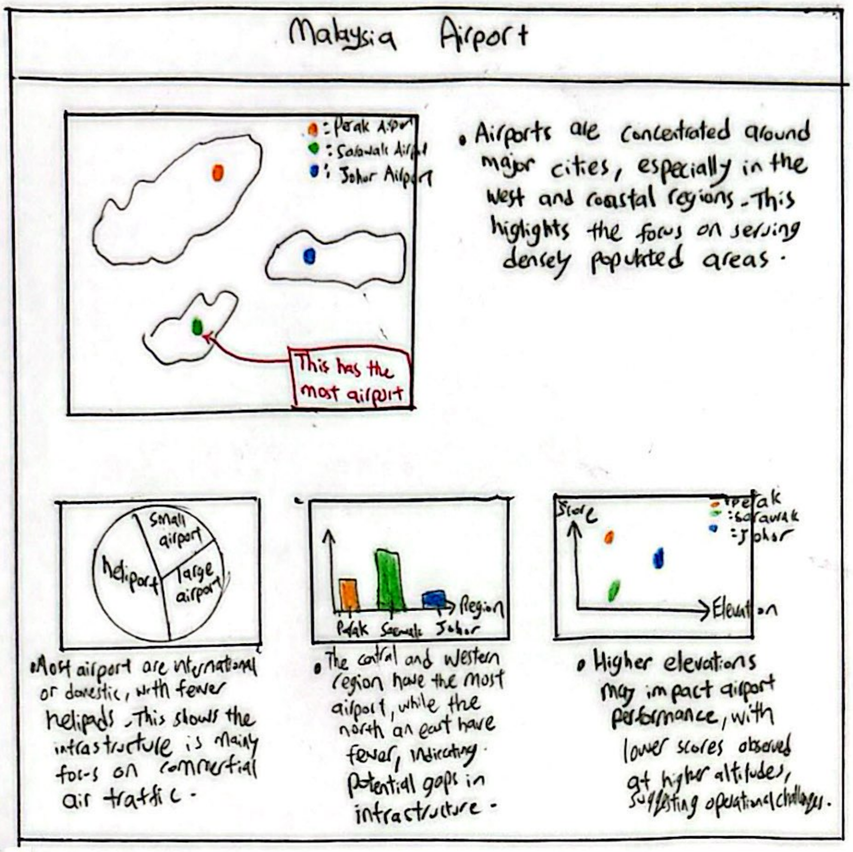
Shows us which types of facility is more common

DISCUSSIONS :

- * Lack of clear focus, Users might confuse which chart is the main focus.
- * Lacks clear narrative from one chart to another.

TITLE ; Simple Narrative Visualizat
AUTHOR ; Lew Jing Wen
DATE ; 12/9/2024
SHEET ; 4
TASK ; Airport Narrative Visualizatio

LAYOUT


Malaysia Airport
: Perak Airport
: Sarawak Airport
: Johor Airport
This has the most airport
Small airport
heliport
large airport
Region
Perak Sarawak Johor
Score
Elevation
: Perak
: Sarawak
: Johor

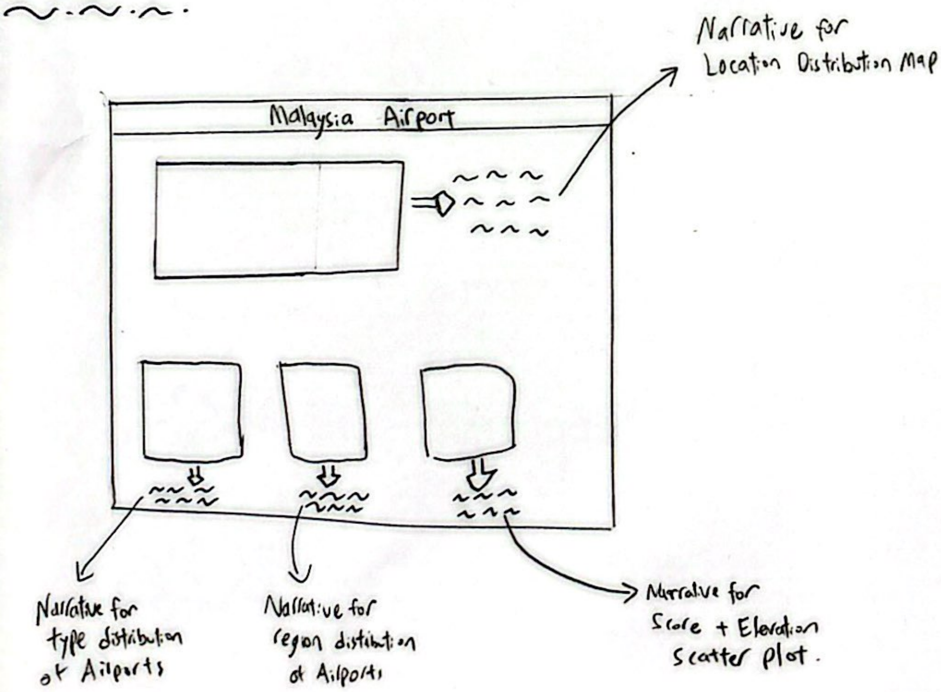
- Airports are concentrated around major cities, especially in the west and coastal regions. This highlights the focus on serving densely populated areas.

- Most airport are international or domestic, with fewer helipads. This shows the infrastructure is mainy focus on commercial air traffic.

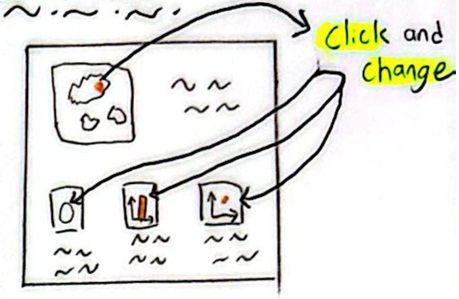
- The central and western region have the most airport, while the north an east have fewer, indicating potential gaps in infrastructure.

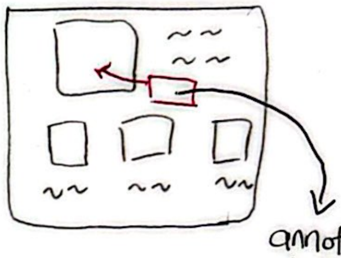
- Higher elevations may impact airport performance, with lower scores observed at higher altitudes, suggesting operational challenges.

FOCUS


Malaysia Airport
Narrative for Location Distribution Map
Narrative for type distribution of Airports
Narrative for region distibution of Airports
Narrative for Score + Elevation Scatter plot.

OPERATION:


Click and change



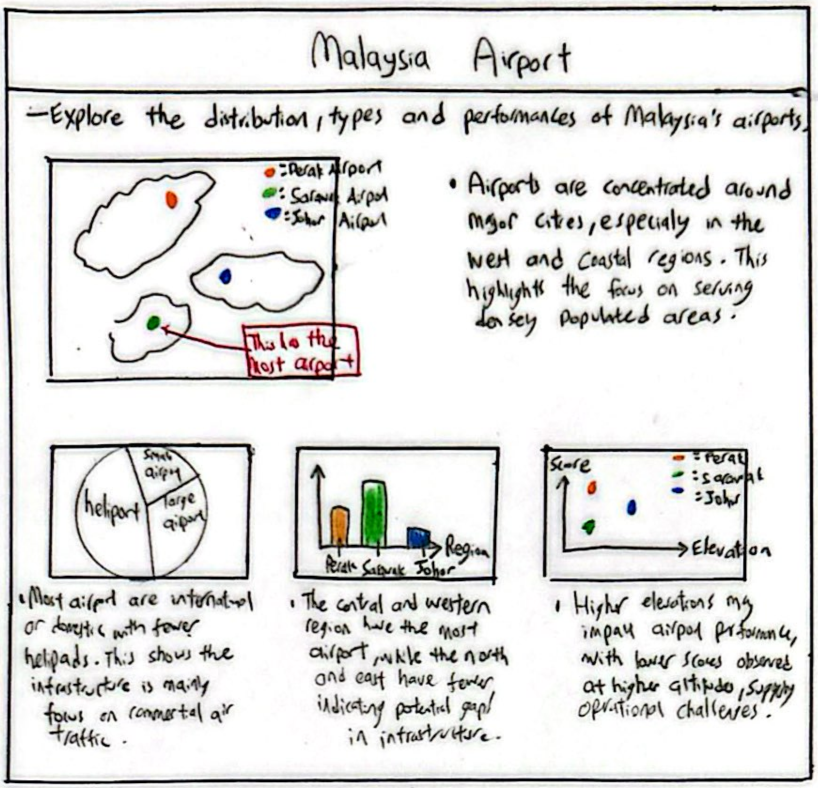
annotation to highlight important information.

DISCUSSIONS:

*Is this information given enough

TITLE: Final Design Sheet
AUTHOR: Lew Jing Wen
DATE: 12/9/2024
SHEET: 5
TASK: Final Implementation Design

LAYOUT


Perak Airport
Sarawak Airport
Johor Airport
This is the most airport
heliport
Small airport
large airport
Region
Perak
Sarawak
Johor
Score
Perak
Sarawak
Johor
Elevation

Malaysia Airport

-Explore the distribution, types and performances of Malaysia's airports.

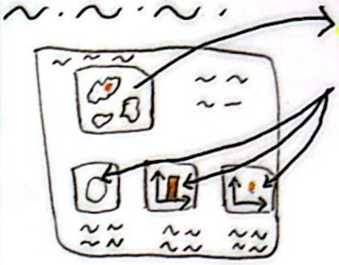
- Airports are concentrated around major cities, especialy in the west and coastal regions. This highlights the focus on serving densey populated areas.

- Most airport are international or domestic with fewer helipads. This shows the infrastructure is mainly focus on commertial air traffic.

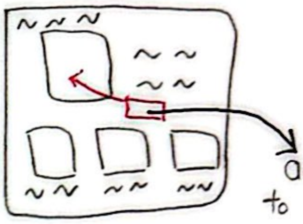
- The central and western region have the most airport, while the north and east have fewer indicating potential gaps in infrastructure.

- Higher elevations may impact airport performance, with lower scores observed at higher altitudes, supplying operational challenges.

OPERATION:

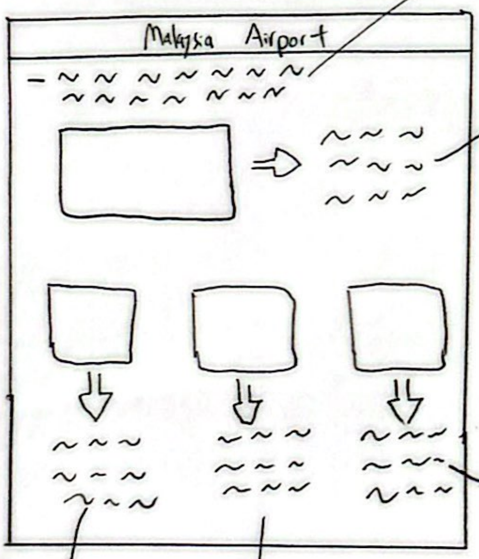


Click and Change



annotation to highlights important information.

FOCUS


Malaysia Airport

brief description of this visualization

Narrative for location distribution map

Narrative for Score + Elevation Scatter plot

Narrative for type distribution of Airports

Narrative for region distribution of Airports

DETAIL

* Use Vega-Lite library for creating maps and diagrams

* Around 1 week to implement

* Ensure data is clean before going into visualization of graph.