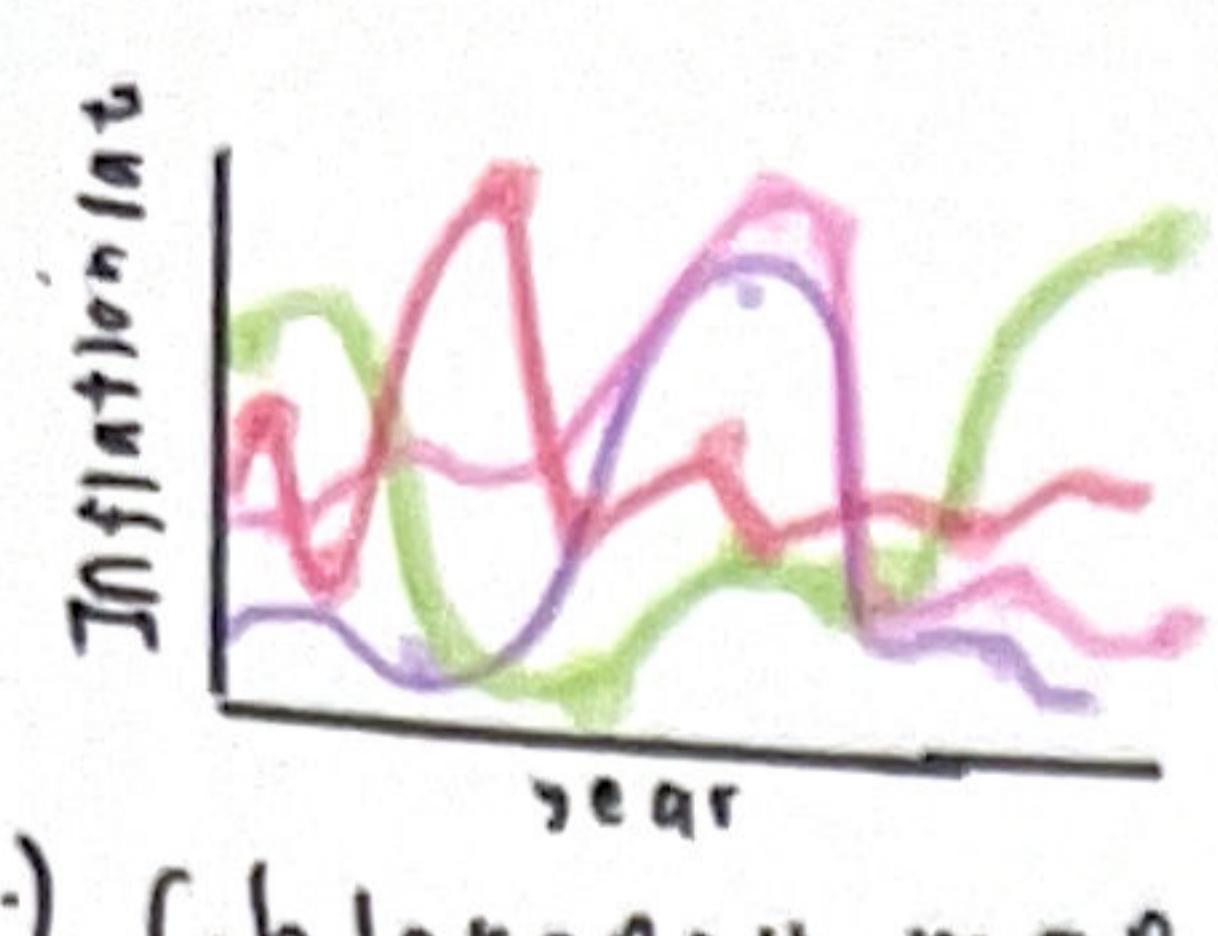


IDEAS

a) Line Chart



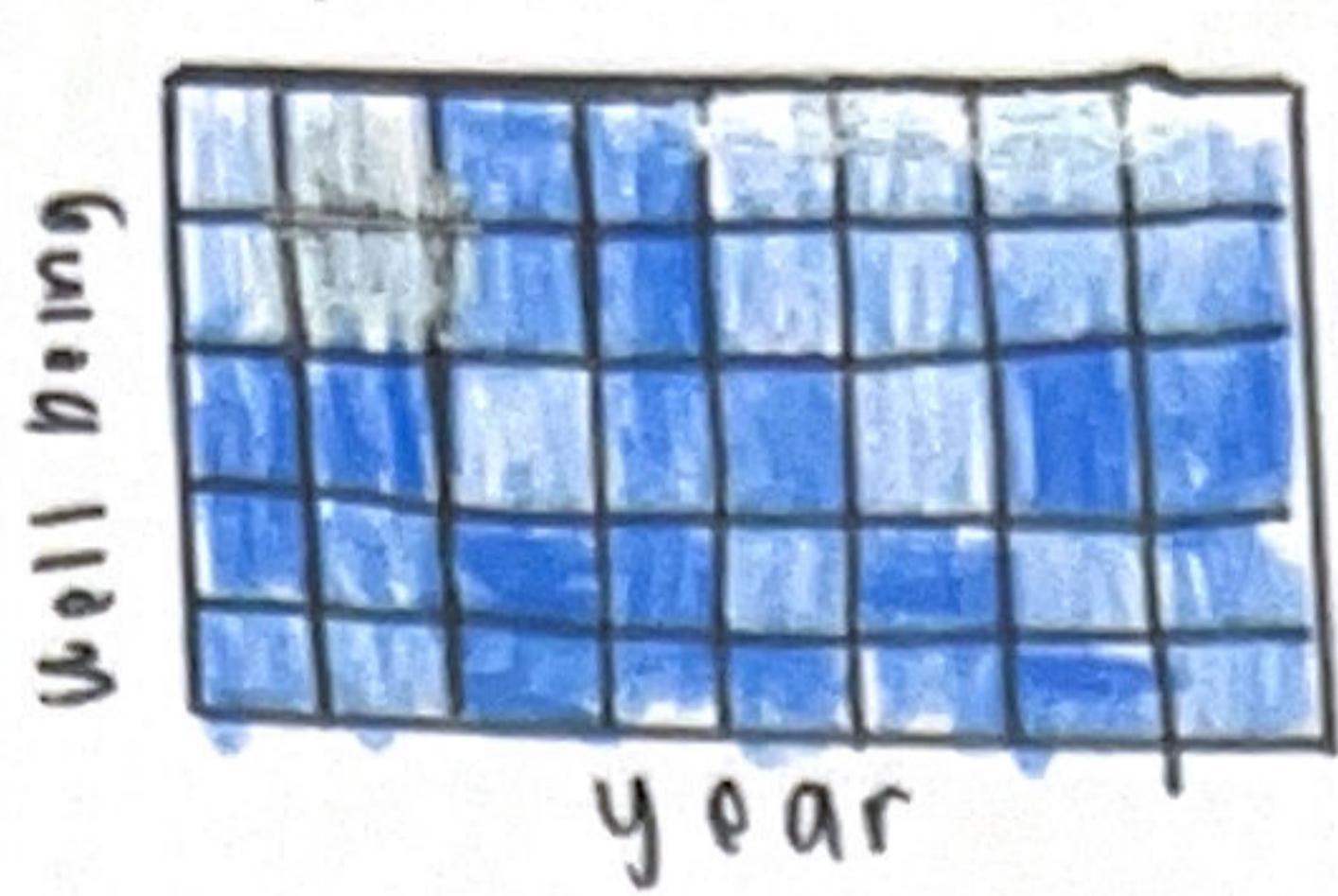
b) Chlorophth map



c) Radar chart



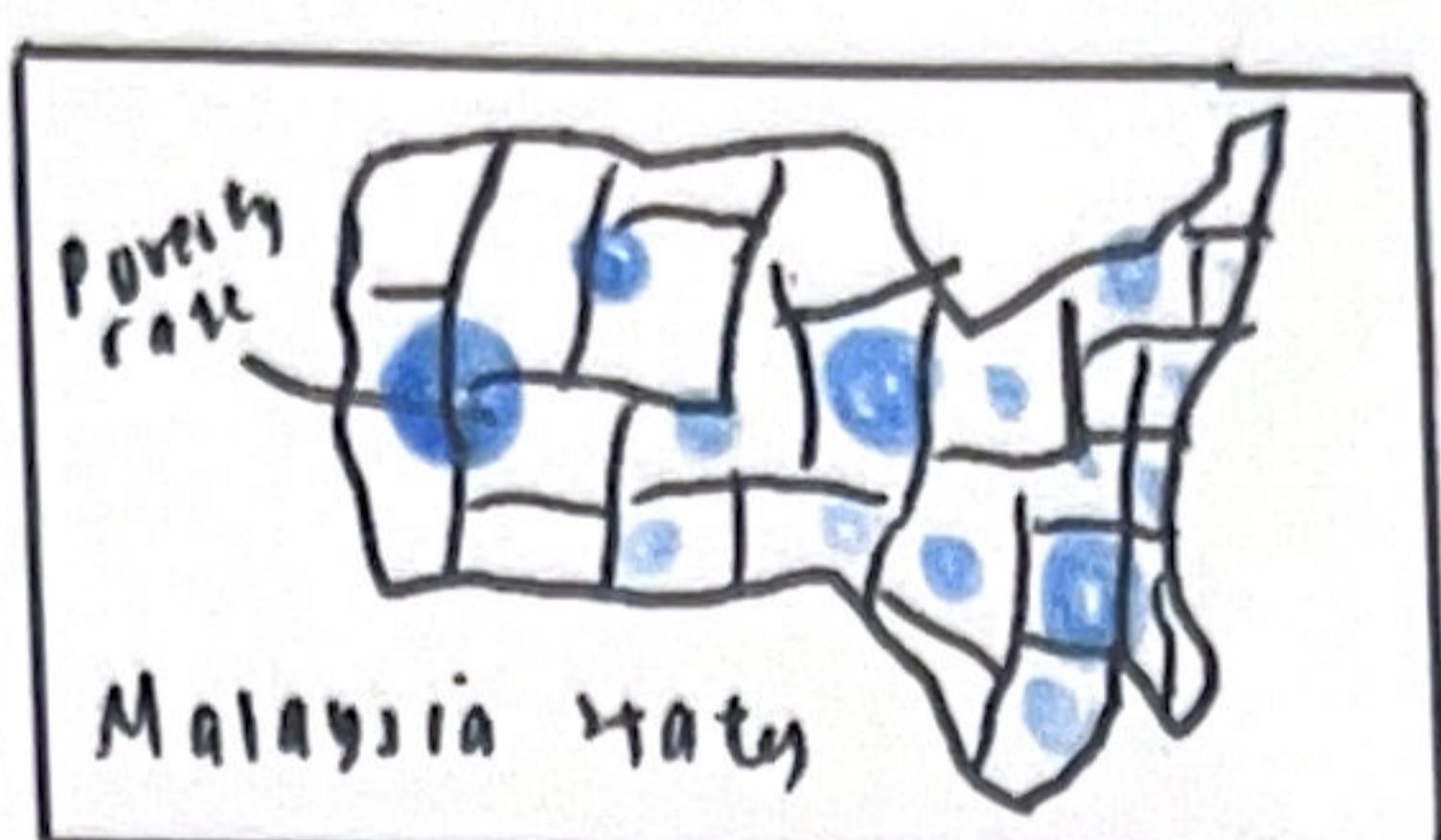
d) Heatmap



e) Histogram



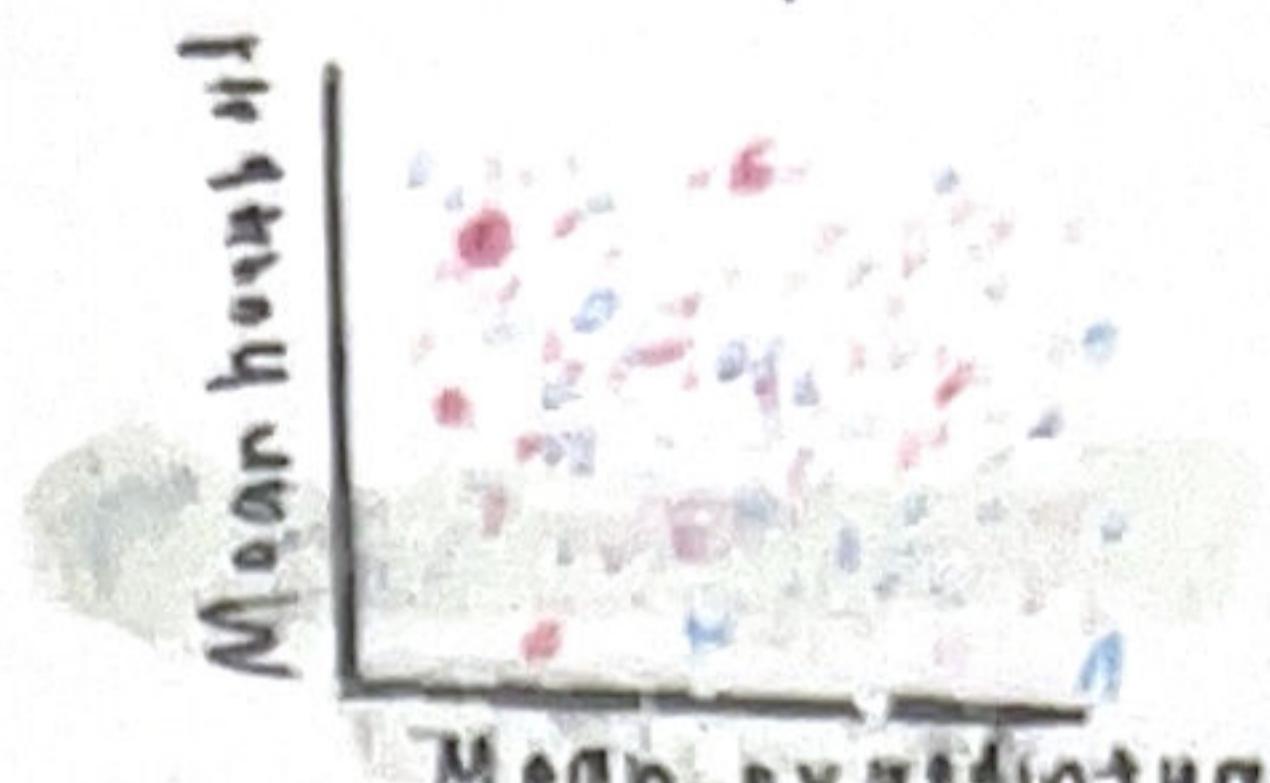
f) Proportional symbol Map



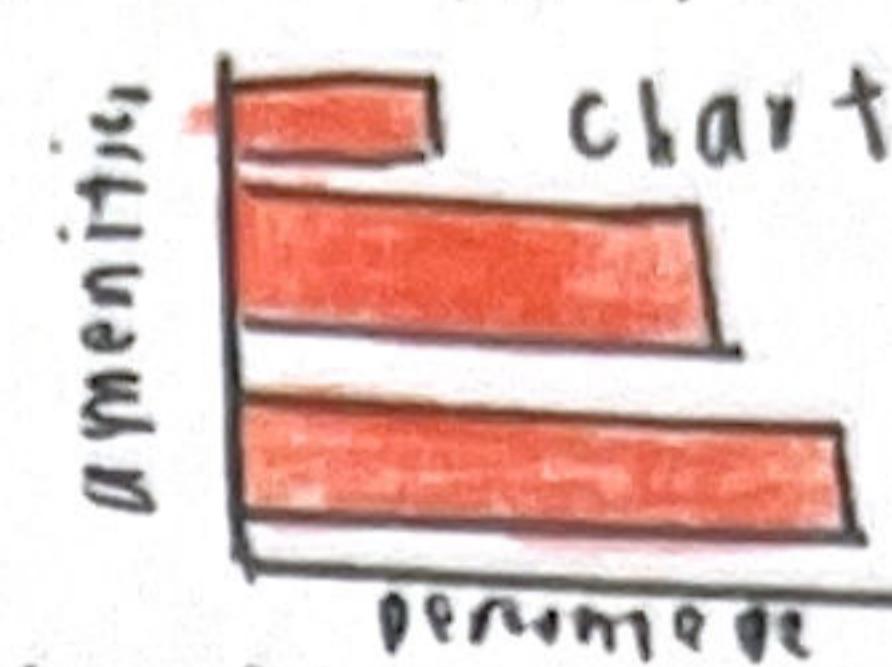
g) Pictograph



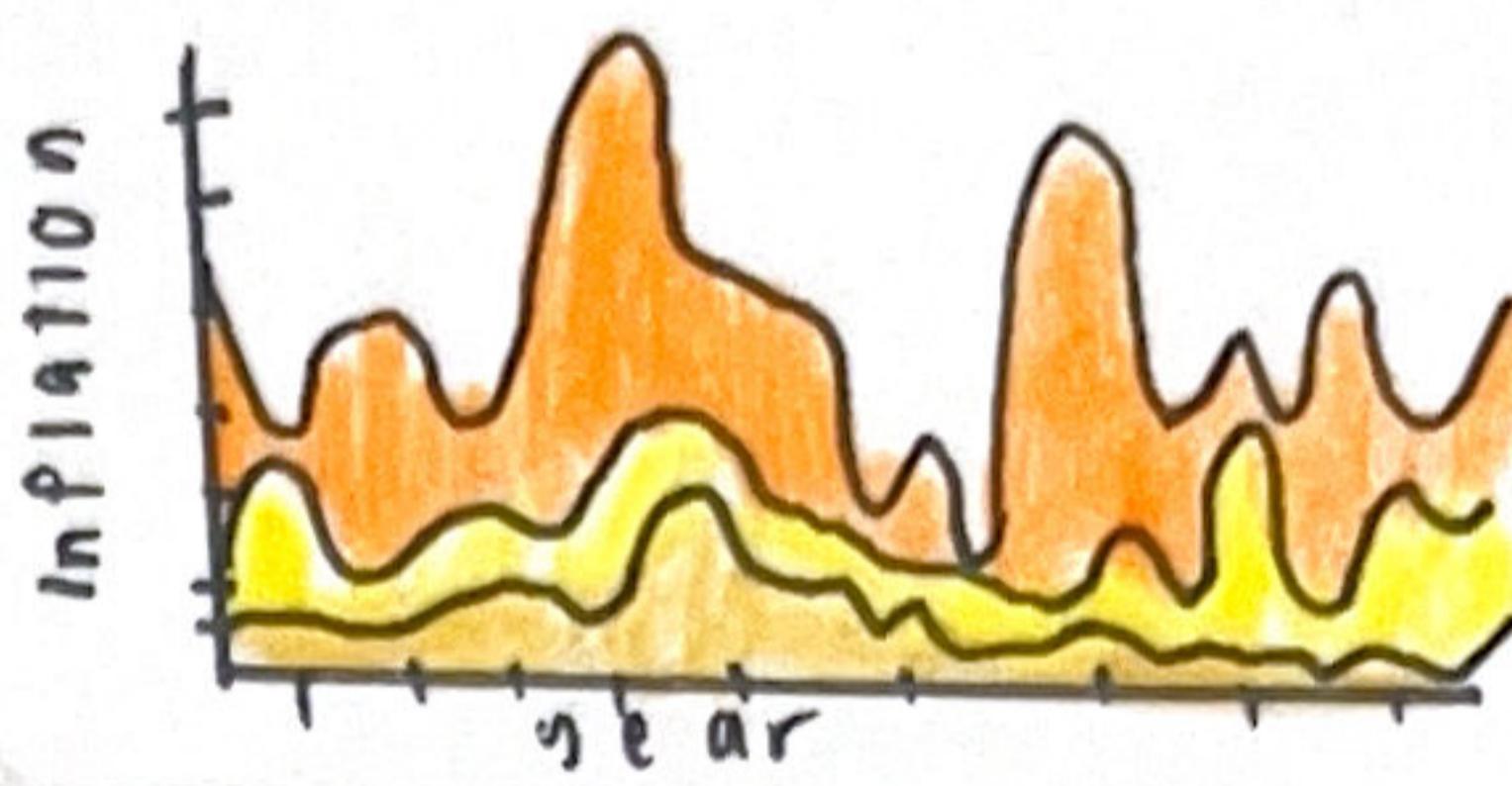
h) Scatterplot



i) Horizontal Bar



j) Area chart



k) Bubble Chart



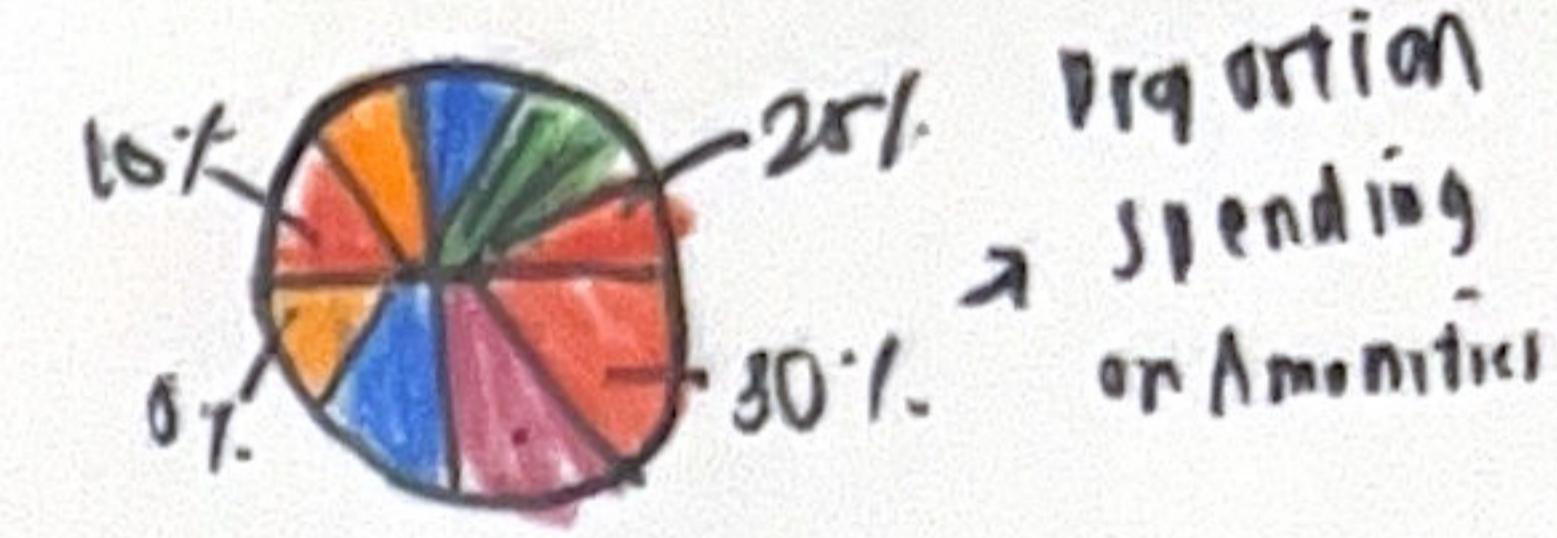
l) Lollipop Chart



m) Bar chart



n) Pie chart



FILTER

1 pie chart



- most of the variables are numerical and continuous
- cannot handle many categories

2 Radar Chart



- Overlapping lines become hard to interpret with many states

3 Lollipop Chart



- requires careful color coding when multiple variables are shown
- line chart is better to show pattern

CATEGORIZE

Global Context

(b), (a), (J) → Overview

(d), (g), (m)

State level comparison

(k), (m), (f)

District level insight

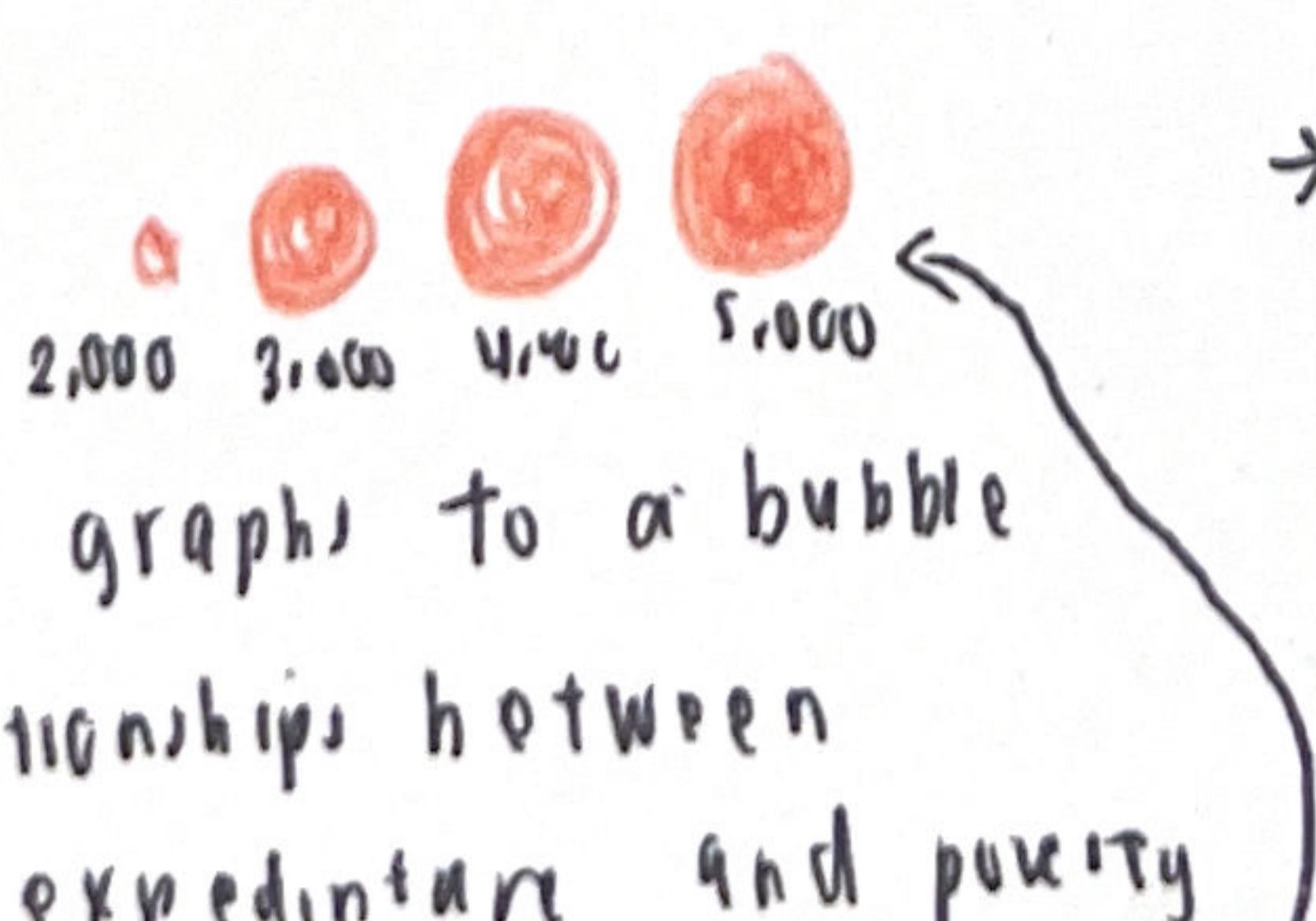
(k), (l), (m)

QUESTION

- * How has Malaysia's inequality evolved compared to other emerging countries?
- * Which Malaysian states and districts show the highest poverty rates and lowest mean income?
- * Which well-being subcomponents improved most?
- * How can visual design reveal disparities between social well-being and economic?

COMBINE & REFINER

* (h) and (k)



- Combine these 2 graphs to a bubble plot to analyze relationships between mean household and expenditure and poverty rate. Bubble size encodes the expenditure.

- X-axis would be household income, y would be poverty rate.

* (b) and (f)

- To analyze the Gini index of Malaysian states, choropleth maps would be better to not look clustered.

- Poverty rate would be explained through scatter/bubble plot instead.

Title: Economic Inequality and living conditions in Malaysia

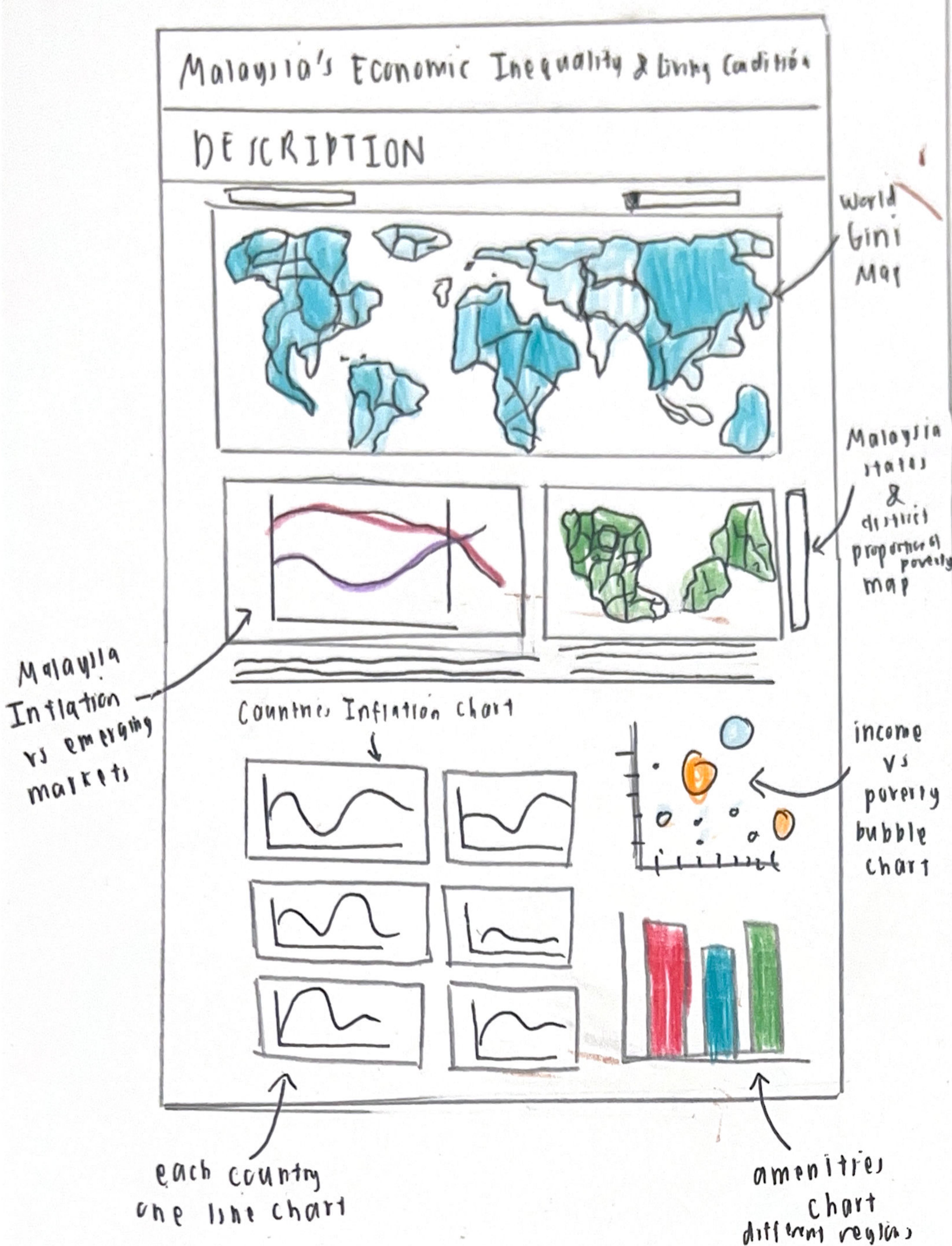
Author: Michelle Evangelina

Date: 21 Oct 2025

Sheet: 1

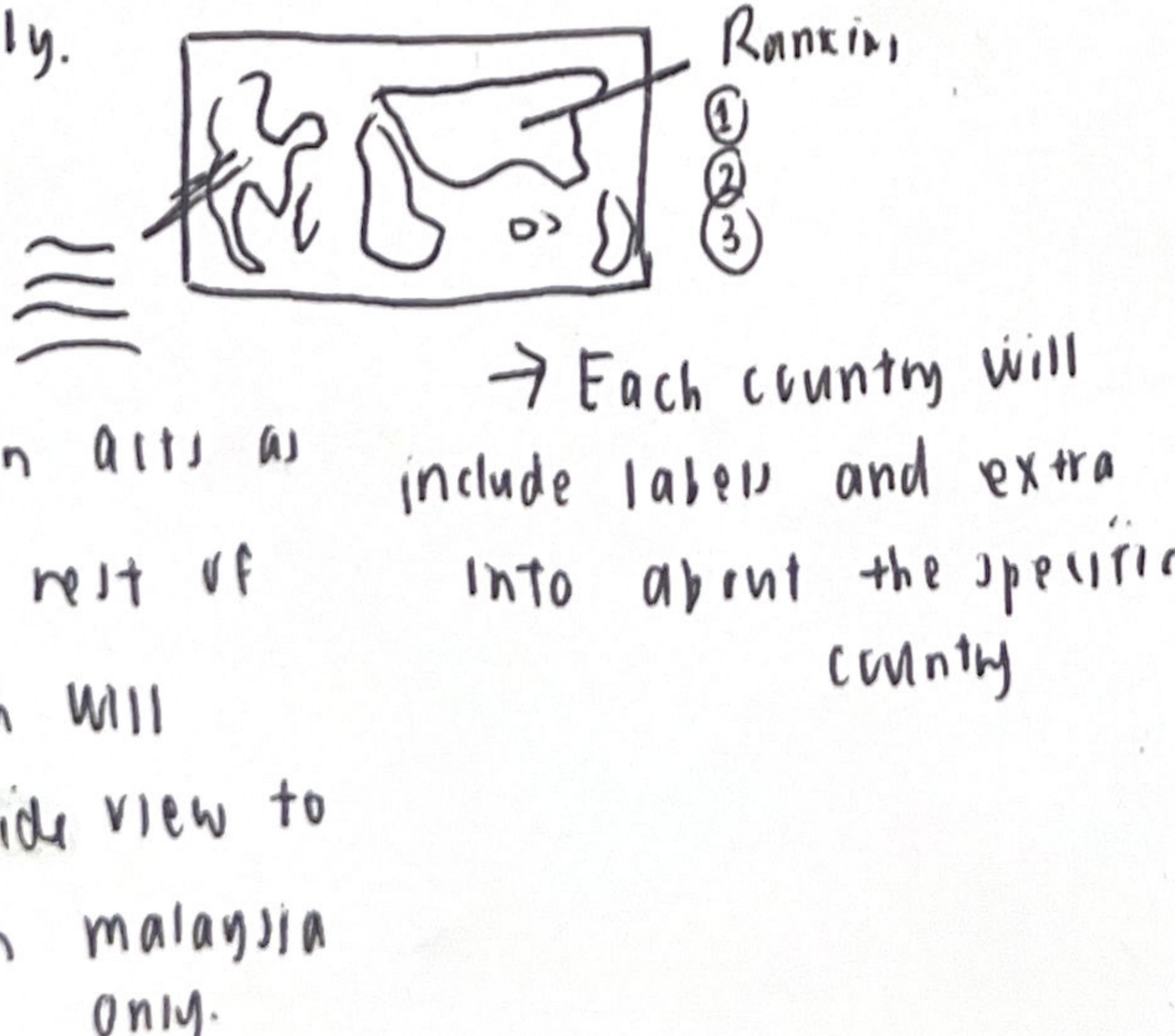
Task: FIT3171 A2

LAYOUT



FOCUS

→ The world Gini index map serves as the main focus for viewers to grasp how inequality varies geographically.



→ Visualization then acts as a gateway to the rest of the dashboard which will transition from worldwide view to focus on Malaysia only.

Title : Malaysia's Economic Inequality

Author: Michelle Evangelimi

Date: 21 Oct 2025

Sheet : 2

TASK : FIT3179 A2

OPERATION

1 Search Bar

Select countries

→ to quickly locate and highlight specific countries in World Gini Map.

2 Hover Interaction



→ to display values by year for Malaysia and emerging market line chart

3 Dropdown or region Selector

Select district

Select state

→ allows user to switch between states and districts in bar chart.

DISCUSSION

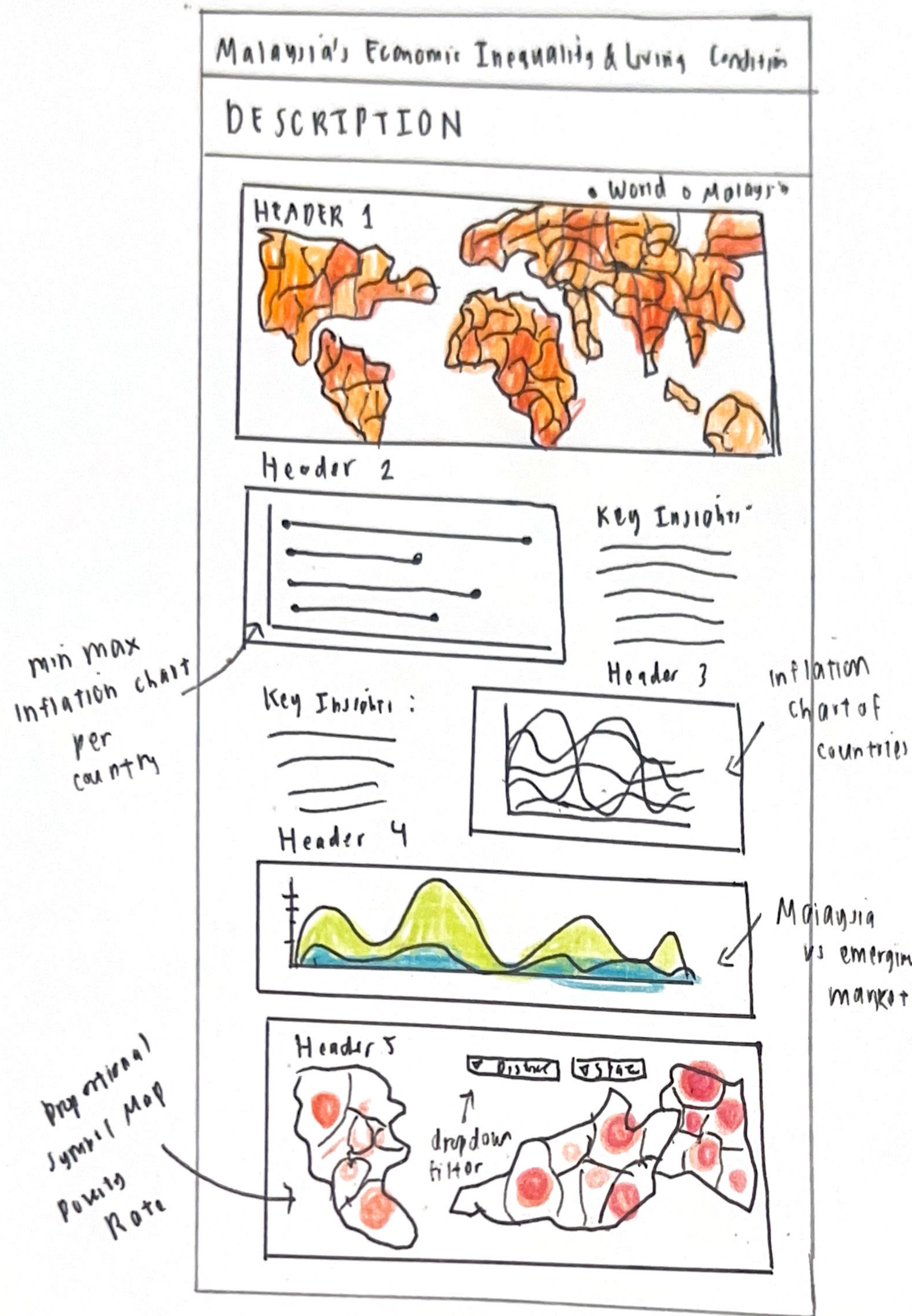
Pros:

- Map provides a strong anchor and attracts attention
- Integrates all different kinds of visualization chart.

Cons:

- Viewers might have a hard time to understand as there's no clear flow of the website after the map
- Would be hard to separate and distinguish the districts for proportional symbol map

LAYOUT



FOCUS

- The layout doesn't prioritize a single focal point; all visuals hold equal weight, just some are bigger than the other.
- The dashboard is intentionally divided into 2 parts:



* Views begin with cross-country Gini with inflation comparisons. → narrows down to state and district level analysis of poverty.

Title: Malaysia's Economic Inequality & Living Conditions
Author: Michelle Evangelina
Date: 21 Oct 2025
Sheet: 3
Task: FIT317A A2

OPERATION

- 1 Filter selection - World and Malaysia Gini**
Purpose: allows user to seamlessly switch between Gini Map of the world and Malaysia
- 2 Hover Interaction - Malaysia poverty rate choropleth map**
Purpose: to let viewer view details such as poverty rate, district name, etc..
- 3 Dropdown Selection - Malaysia poverty rate choropleth map**
→ Purpose: lets user picks specific state & district

State District

DISCUSSION

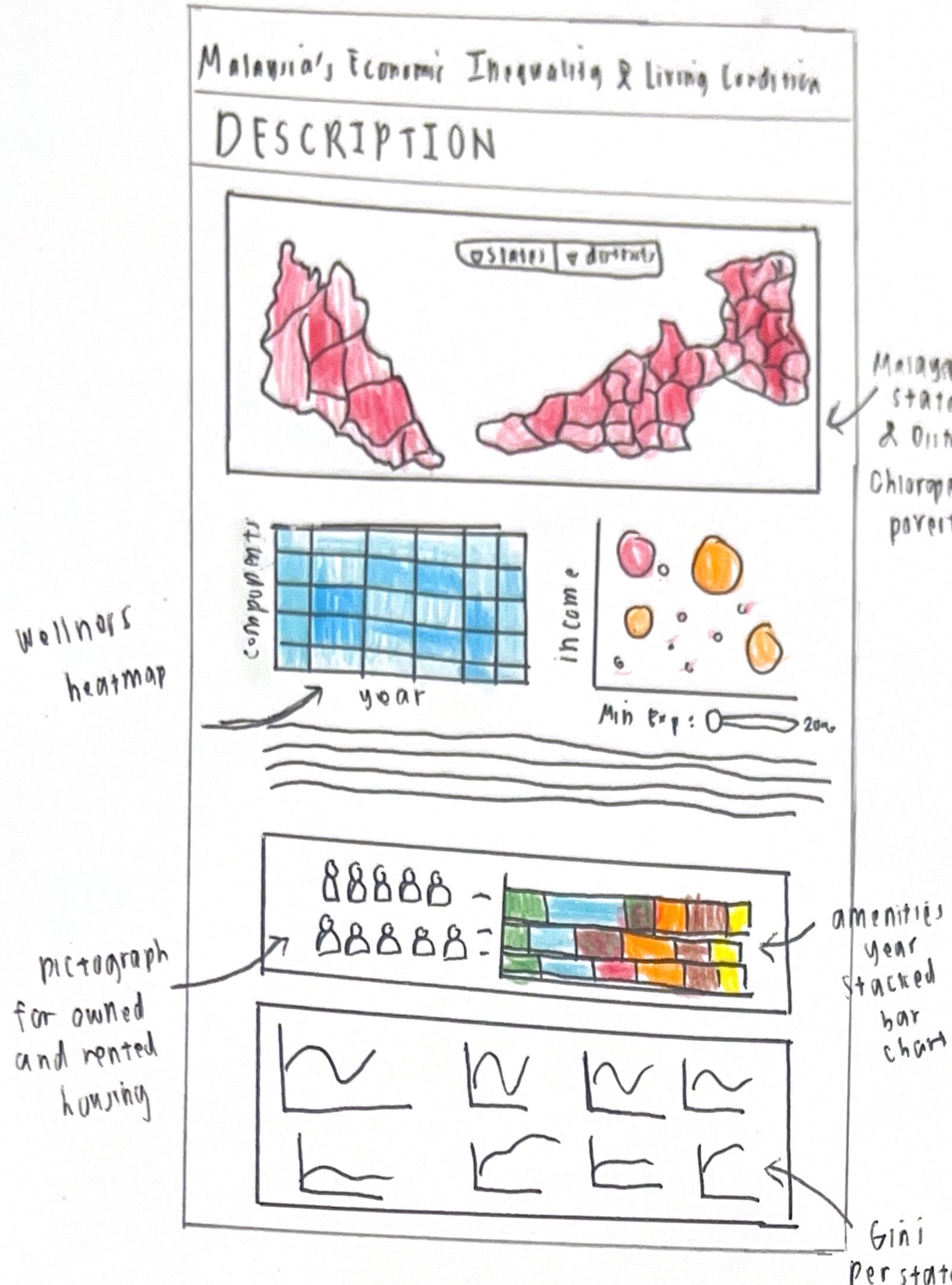
Pros:

- Promotes hierarchical flow from world to malayisa to districts creates a coherent story
- Area chart is visually smooth and intuitive to emphasize shifts in inflation.

Cons:

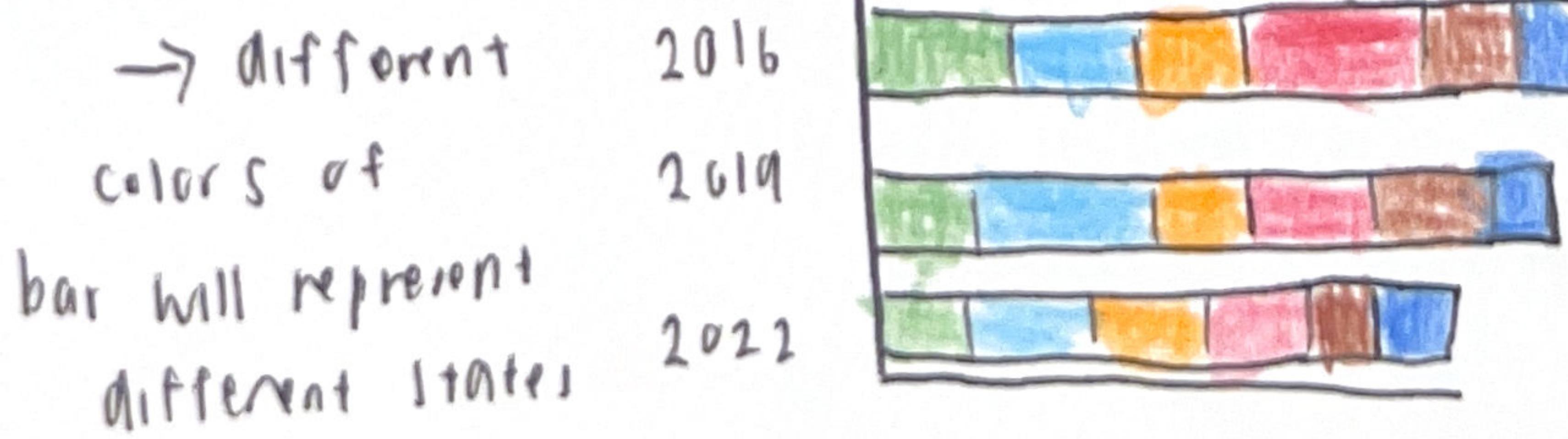
- min-max inflation chart doesn't communicate temporal variation effectively.
- The bottom section appeared too cluttered.

LAYOUT



FOCUS

- The focus would be on Malaysia's regional inequality and living conditions as a whole without much comparison with the other countries compared to other layouts.
- Shows how income, expenditure, well-being and access to basic facilities vary between states.



Title: Malaysia's Economic Inequality & Living condition
 Author: Michelle Evangelina
 Date: 21 Oct 2025
 Task: FIT3179 A2
 Sheet: 4

OPERATION

1 Dropdown Filters

select state select district

→ for different states and districts selection to the poverty choropleth allows users to explore the inequality

2 Well-being filter selection

Economic well-being Social well-being

→ help users switch perspective on quality of life improvements

3 Minimum slider Mean Expenditure

min exp 2000

→ To focus on the range within the chart, to see its disparities

DISCUSSION

Pros:

→ Structured layout centered on Malaysia and has logical layout.

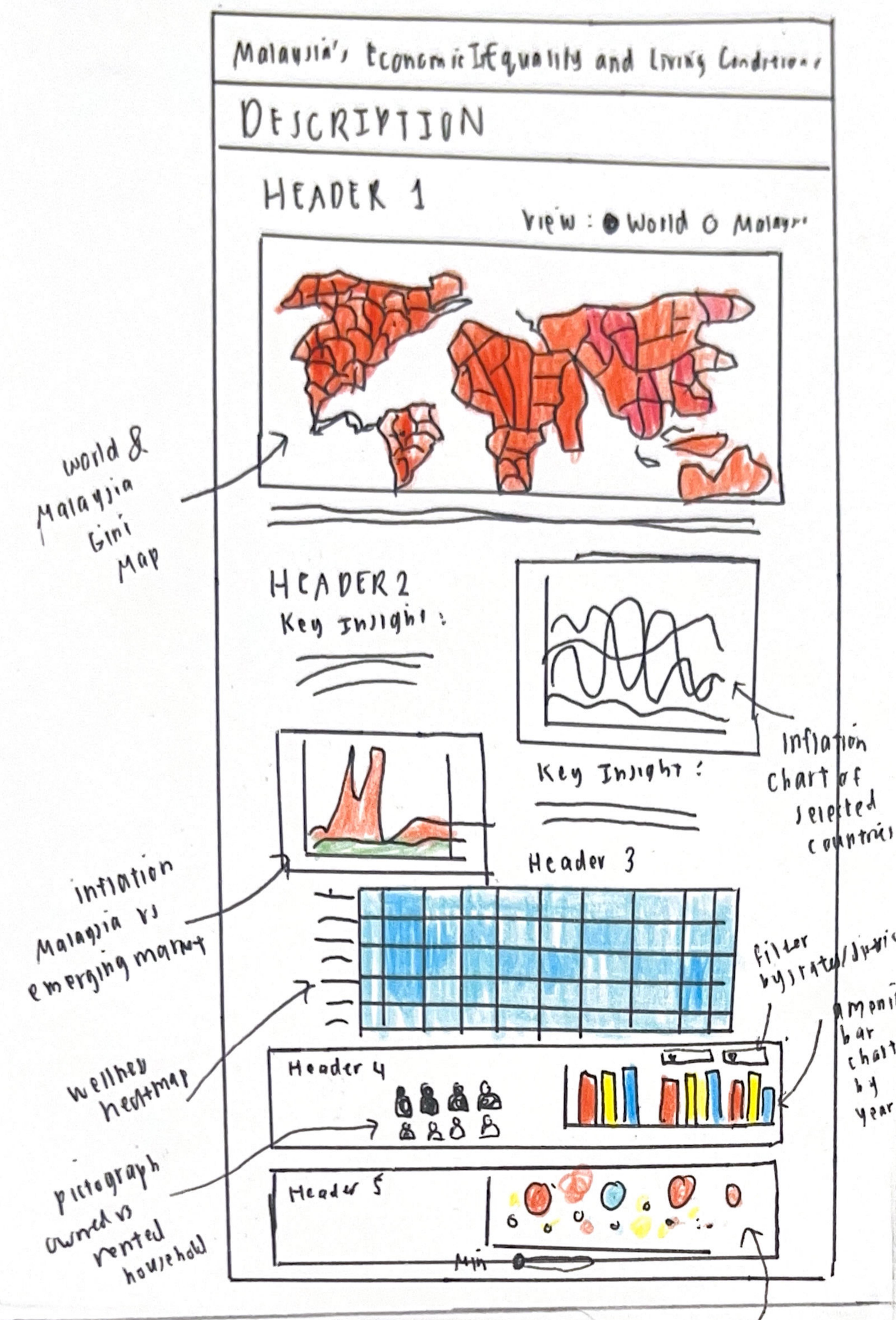
→ Is more visually appealing due to pictographs in the center.

Cons:

→ Heavy reliance on multiple quantitative charts, may look too cramped and overloaded.

→ Malaysia state poverty line chart takes too much space, can just load into 1 single chart.

LAYOUT



Title: Malaysia's Economic Inequality and Living Conditions
 Author: Michelle Evangelina
 Date: 21 October 2025
 Sheet: 5
 Task: FIT3179 A2

OPERATION

1 World Malaysia Filter
 → Choropleth Map

View: □ World □ Malaysia

* to compare inequality
 Global vs domestic

2 Well being filter
 → Heatmap

Component: All o Economic o Social

* to explore different dimensions of
 Malaysia's quality of life.

3 State & district filter
 → Bar chart

select state select district

* allows regional exploration

Hover tooltip
 → Map & line chart

* help users make comparison without cluttering.

4 Expenditure interactive slider
 → scatter plot

Min. Expenditure (MYR): 2000

FOCUS

→ The poster doesn't have a single focus as it emphasizes a progressive nature. The dashboard is split into 3 sections:

1) Global Inequality & Inflation

2) Malaysia's Macroeconomic performance

3) State - district level living conditions

→ This ensures a coherent, storytelling experience to provide a multidimensional picture of economic well-being and inequality at national and regional scales.

DETAIL

• DEPENDENCIES

→ HTML for structure, CSS for styling, JavaScript for interactivity

→ Excel - dataset source and storage
 → Python - data cleaning and aggregation

• Estimated Time & Effort

→ 1 day : data gathering & understanding
 → 3 days : create individual charts

→ 2 days : dashboard structure & layout

→ 1 day : visualization & interactivity

• Specific requirements

→ Dashboard size: 1200px X 450px

→ Label density must be adjusted.