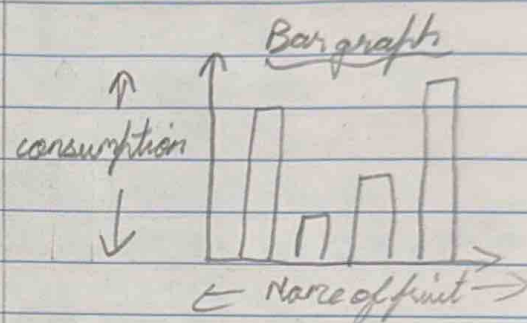
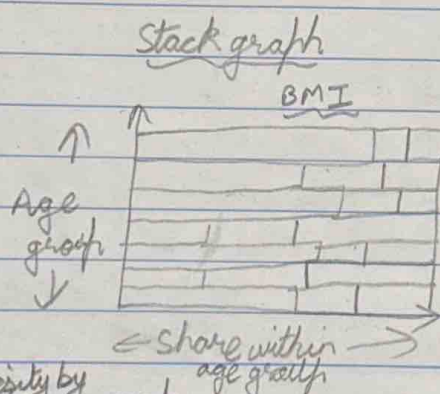
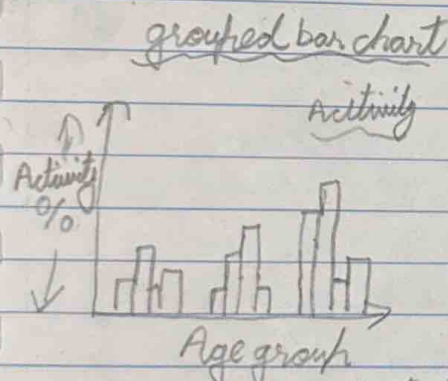
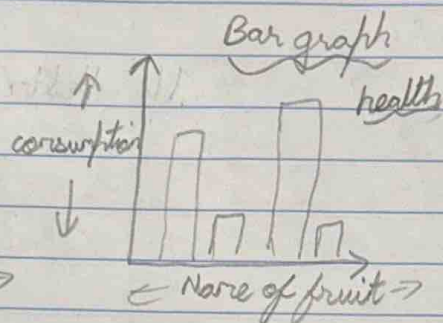
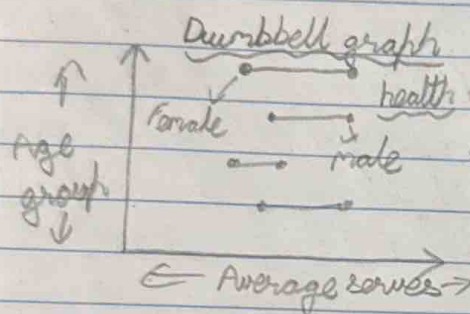


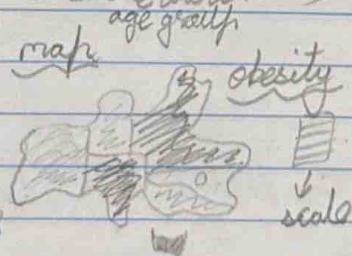
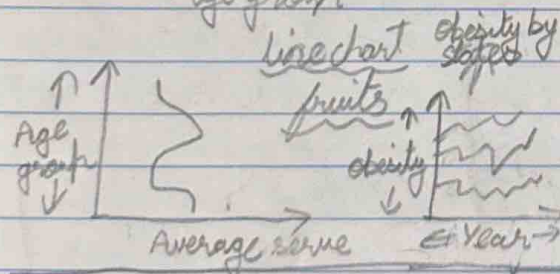
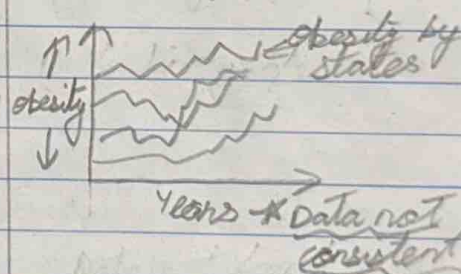
Five Design Sheet Methodology

IDEAS:

①



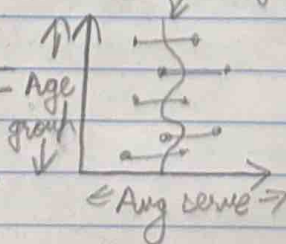
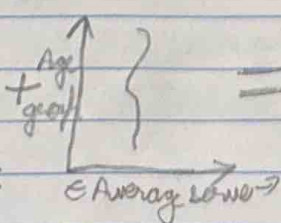
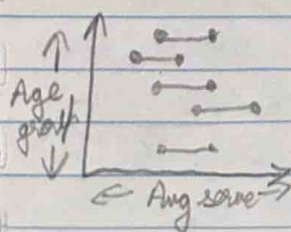
* Too vague



CATEGORIZE:

Map-based (Geospatial)
Behavioural (bar chart)
compositional (stacked bar)
comparative (dumbbell)

COMBINE:



Questions:

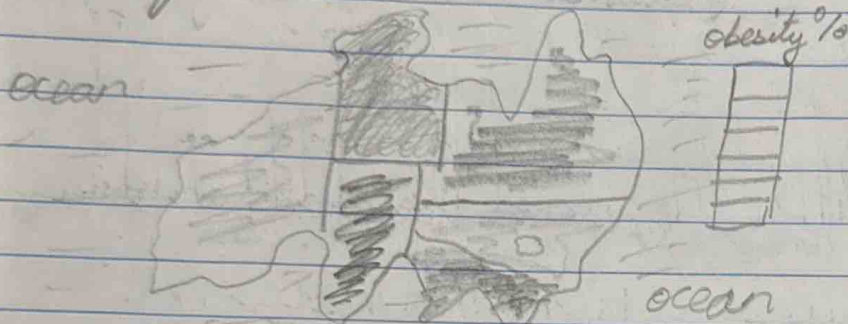
1) Which state has highest obesity rate? 2) Do people meet daily fruit and veg consumption? 3) BMI ranges across age groups.

LAYOUT:

(2)

Obesity Rate by States (Australia)

definition:



- Choropleth map of Australia.
- Ocean + graticule for context and realism.
- Labels (NSW, VIC, QLD, etc) over states.
- Legend for the darkness of the colour and scale.

FOCUS:

Tasmania, the darkest

- Identify which states have the highest obesity rates.
- Provide a national overview as the dashboard's entry point.

Title: Obesity Rate by States (Map)

Author: Amarish Patwara

Date: 21/09/2025

Sheet: 2

Task: Visualising obesity distribution across Australian states using a choropleth map to highlight regional health disparities.

OPERATIONS:

- Colour encodes obesity %
- Hover tooltip → shows state + % value.
- Legend on right with readable gradient.
- Filter out extra territories (Coral Sea, Jervis Bay)

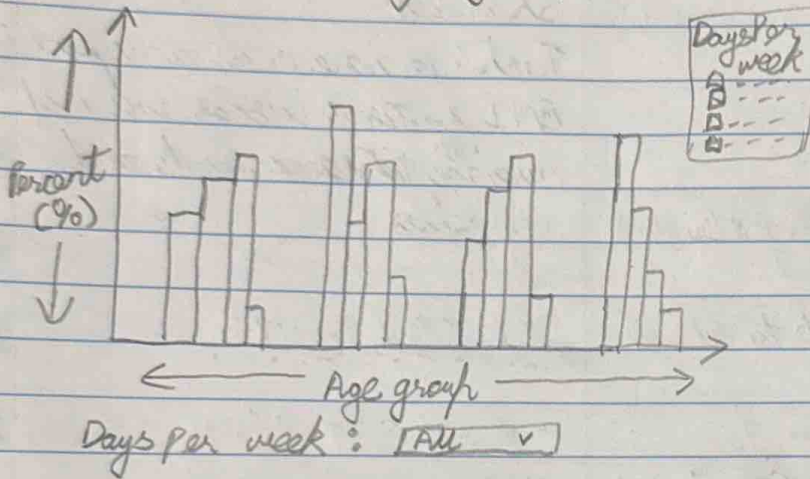
DISCUSSION:

- make colour contrast to distinguish states.
- Add map context (ocean + gridlines)
- Add abbreviations for labelling the states.

LAYOUT:

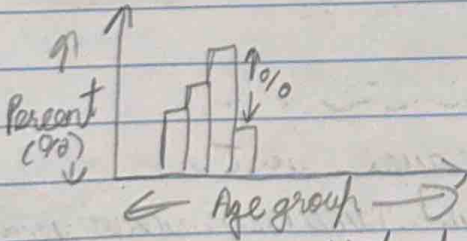
(3)

Physical Activity by Age Group



- Grouped bar chart, x = Age groups (15-17 → 65+)
- colour = Days of activity per week.
- Dropdown filter on bottom of the graph.

FOCUS:



- Compare activity patterns across age.
- Show which age groups are most physically active.

Title: Physical Activity by Age Group (Australia)

Author: Anand Patwa

Date: 21/09/2025

Sheet: 3

Task: Comparing frequency of physical activity across age groups, exploring behavioural trends influencing health outcomes

OPERATIONS:

- Dropdown selection updates chart interactively.
- Tooltip displays % values.
- Legend placed top-left.
- 5 different bars for different days per week.

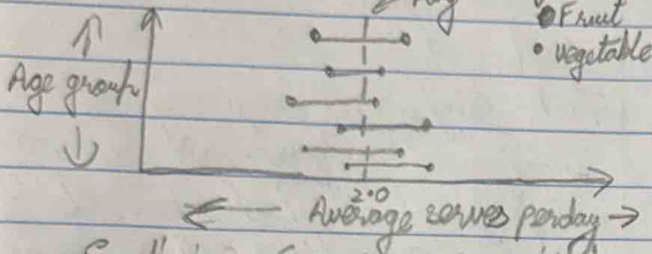
DISCUSSION:

- Put contrast btw the bars.
- Compact legend for the days per week.
- Display the key main findings; Younger groups more active, older less.

LAYOUT:

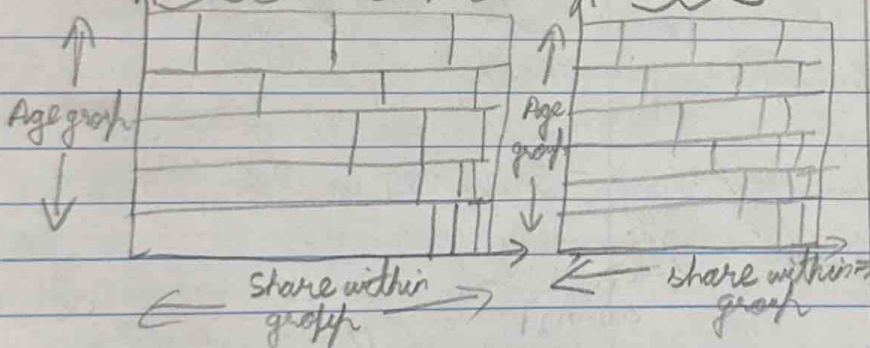
(4)

Average Fruits and Veggies Per day



- Each age group on y-axis, Avg series on x-axis.
- Lines connect fruits and vegetables to show gap for age group.

Female BMI composition Males



Legend: [] [] [] [] []

- Faceted by Sex (Male / Female) for a side by side comparison.
- Horizontal legend below the graph.

FOCUS:

- Both visuals show composition and comparison.
- Together tell story about Australia's body weight patterns.

Title: BMI Distribution and gaps in Fruits and vegetable.

Author: Anarshi Pahari

Date: 21/09/2025

Sheet: 4

Task: Compare male and female BMI patterns across age and Average intake of fruits and vegetables.

OPERATIONS:

- Facet BMI data by sex and stack categories.
- Normalise each age group to 100% to show proportions.
- For dumbbell chart, match x-axis scale for both plots to enable visual comparison.
- Add tooltips and consistent typography for accessibility.

DISCUSSION:

- The dual layout enhances understanding by pairing composition.
- The Dumbbell visual makes comparison b/w fruit and veg.
- Both graph reduce cognitive load and strengthen comparative insights.

Based off of the sheets

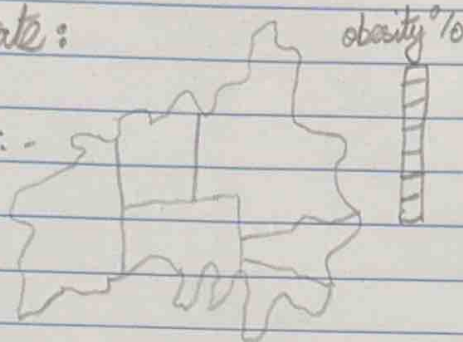
LAYOUT:

(5)

Australian Health Insights Dashboard

1. Obesity Rates by State:

Textual content here: -



FOCUS:

- creating a cohesive data story connecting Physical, obesity, BMI distributions.
- Make Physical Activity and BMI visualisation interactive, so we can compare the trends.

OPERATIONS:

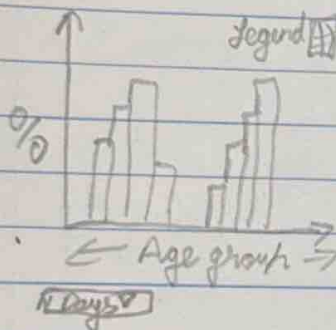
- Keep tooltips, colour scales, and fonts uniform across visuals.
- Add descriptive headings + brief captions for context.
- Ensure responsive resizing on smaller screens.

DISCUSSION:

- Consistent design improves flow and user comprehension.
- Interactive elements (like dropdowns) make exploration engaging without overwhelming the viewer.

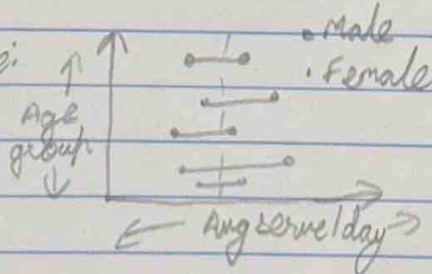
2. Physical Activity by Age

Textual content here: -



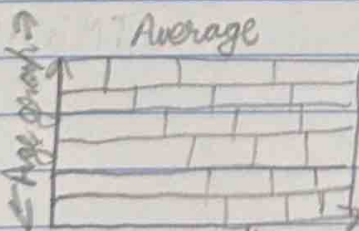
3. Daily Fruit vs Vegetable Intake:

Textual content here: -



4. BMI by Age and Sex:

Textual content here: -



share within age group