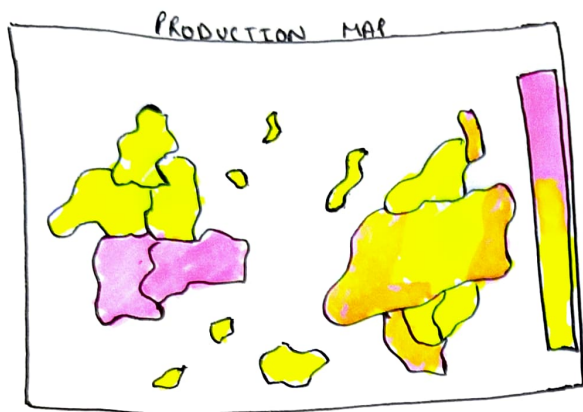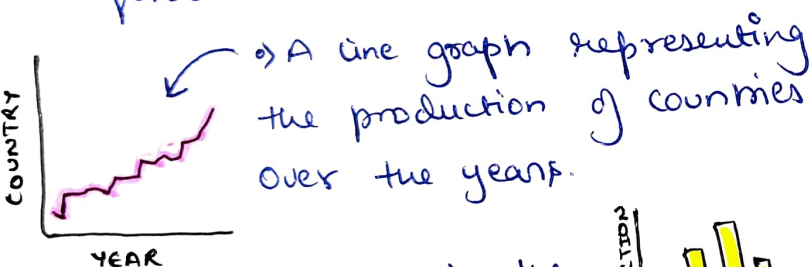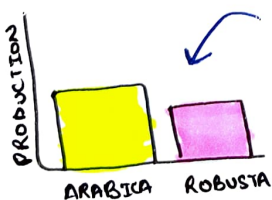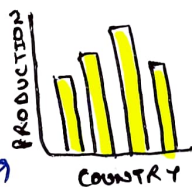# IDEAS

PRODUCTION MAP

← High
← Low

◦ A MAP Representing the production of coffee beans through out the countries with the colour coding Indicating the production
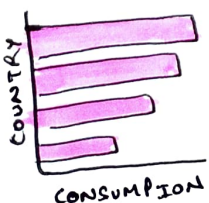
◦ A line graph representing the production of countries over the years.

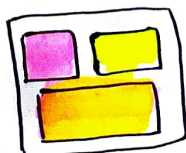◦ A bar graph representing the production of coffee beans over countries.

◦ The bar chart compares the total production of Arabica and Robusta.

◦ The graph Shows the consumption of the coffee beans by the countries.

◦ A Treemap to group the coffee species and arrange them in the order of production.
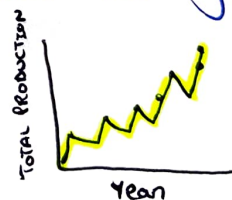
FILTER

◦ Adding a general filter for all the graphs which is both Showing or switching the stat's for the coffee beans Robusta & ARABICA. or both the coffees. and a year filter.

SELECT YEAR: 1960▾   COFFEE: ARAB▾

COMBINE $ REFINE

◦ CAN combine the production over countries and the production over the years to create a new insightful graph for Total Production over the years.

QUESTIONS

◦ IS it better to show stat's for the coffee beans Indivisually or ~~seperately~~ groups?
→ both are fine as both the stats are Shown in the with the graphs. hence it covers both Indivisually & groups.
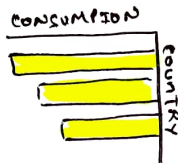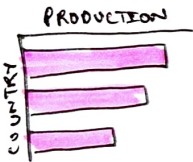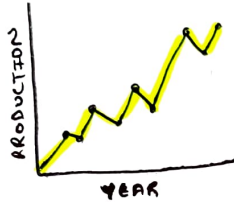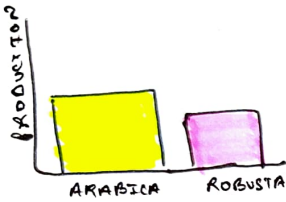
LAYOUT

DATE: 19/10/2025

SHEET: 2
AUTHOR: RONAK TAH
TASK: FIT 3179 ASS.
TITLE: DASHBOARD VIEW

COFFEE DASHBOARD

YEAR: [▼]
COFFEE BEAN: [▼]

PRODUCTION MAP

PRODUCTION?

ARABICA   ROBUSTA

PRODUCTION
YEAR

PRODUCTION
COUNTRY

CONSUMPION
COUNTRY

a) —————
a) —————
a) —————

OPERATION

a) Having 2 filters in the main Header bar of the dashboard which affects all the graphs targeted, the two filters would be:

1) year: [1986 ▼]
• A dropdown box filter to choose the year its in

2) coffee type: [▼]

• Another dropdown box type filter which gives options between ARABICA, ROBUSTA, BOTH types of coffee beans.

FOCUS

a) No main focus all maps and graphs are important as they all give a unique highlight to different part's of Information about the coffee bean.

→ The free world map gives us a overall view over the world about the production rates Identified by the colour Scheme.

→ high production area

→ low production area

DISSCUSSION
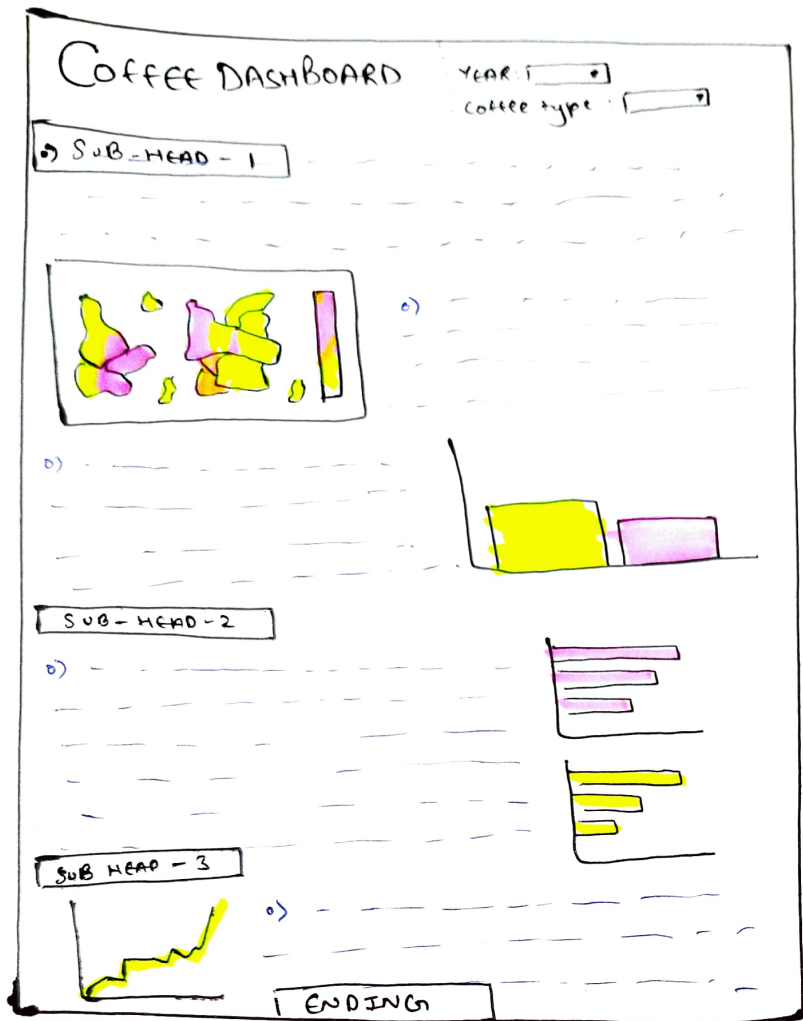
Advantages:
• very compact
• easy to follow the trends
• consistent colour scheming.

Disadvantages:
• could be overcrowded
• the information can be way too much to take in one go
• The map might become very small due to space restrictions.

LAYOUT

COFFEE DASHBOARD — YEAR: [▼] — Coffee type: [▼]

- ↪) SUB-HEAD-1
- SUB-HEAD-2
- SUB HEAD-3
- ENDING

OPERATION

o) All the sub Headings are using the same universal filters of year & coffee type which is present on the very top at the heading:

YEAR: [▼]
Coffee type: [▼]

o) both are dropdown filters with the coffee having options Robusta, ARABICA & both.

FOCUS

o) Each Sub-Heading has has a main focus one. telling & describing about a specific story & Information about the coffee beans.

o) Sub-Head 1 : overall story & Introduction with a world map about production.

o) Sub-Head 2: about the types of coffee i.e, Robusta & ARABICA. and there production / consumption.

o) Sub-Head 3: Tells about the total trend for production over the years in the world. and has the conclusions/Ending.

DISCUSSION

ADVANTAGES:

o) Creates a well defined segment to tell about each story & Information properly about the beans.

o) Allows visualisations to have more space & not overwhelm anyone.

DISADVANTAGE:

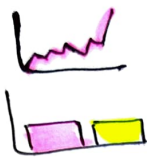o) Could become very long with too much info.
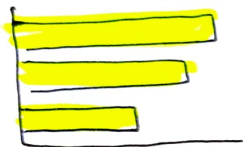
LAYOUT

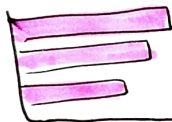**COFFEE DASHBOARD**   YEAR: [▾]   COFFEE: [▾]

Global Coffee Production Map

Total Coffee Production Over Time

Top 10 Coffee Producing Companies.

Top 10 Coffee Consuming Countries.

OPERATION

o) HAS the same filters as before with the 2 main filters being the year & coffee bean type dropdown filters that are accessed in the main heading of the page and it affects all the graphs.
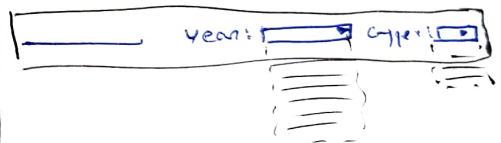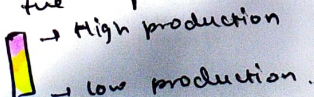

FOCUS

o) The main focus is that the subHeading are distributed over fixed length cards for there information to display.

→ with this the size of the page also becomes contained and all the topics are well seperated and informed in there own cards.

→ with the map colour density showing:
- → High production
- → low production.

DISCUSSION

ADVANTAGES:

- very compact & easy to read & view

- Explains about everything in particular cards or sections.

DISADVANTAGES:

o) Does not give alot of info.

o) The main Heading and the filters are too close.

LAYOUT
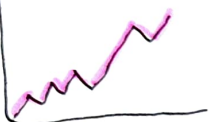
COFFEE PRODUCTION DASHBOARD

SELECT YEAR: [▼]   SELECT COFFEE BEAN: [▼]

Global COFFEE PRODUCTION MAP

Total COFFEE PRODUCTION OVER TIME

PRODUCTION BY COFFEE TYPE

TOP 10 COFFEE PRODUCING COUNTRIES

TOP 10 COFFEE CONSUMING COUNTRIES

TITLE: FINAL DESIGN SHEET

AUTHOR: RONAK TAH

DATE: 19/10/2025

SHEET: 5

TASK: FIT 3179 ASS.

OPERATION

1) The dropdown filter for all the graph has it's own card now separated from the Header making it much easy & clearer.

Select year: [▼]   Select Coffee bean: [▼]

with the select coffee bean filter having options for Robusta, ARABICA and both the coffee beans.

FOCUS

1) NO Main focus all graphs are equal

→ with each Sub-Heading having it's own card including the filters, and explains about the coffee beans.

→ The story goes over from total production & introduction to consumption and production (Top countries).

→ also tells about comparison btw Robusta. and ARABICA coffee beans.

→ The colour density on the world map is shown as:
→ high production area
→ low production area.

DETAILS

Dependencies: Able to properly code. in vega-lite, css-j and for the github servers to be stable enough.

Estimated time:
→ 15 hours for visualisation
→ 5 hours for report + references

Database Implemented:
database Implemented using