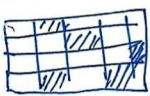
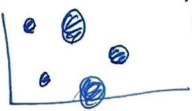
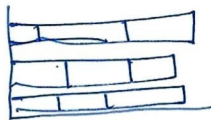


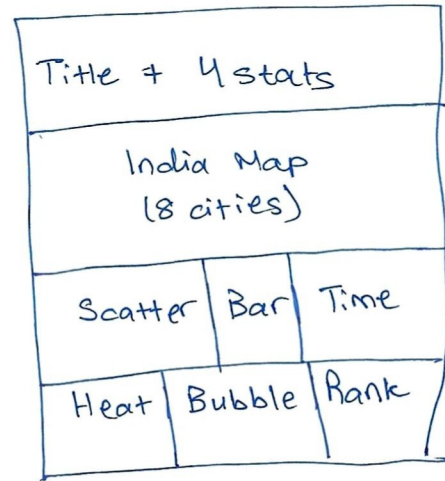
IDEASMap:

8 cities

Lung icon:which side is
Polluted and which
is fineBar chart:8 bars for
cities, with
varying values
heightScatter plot:Calendar Heatmap:Grid of
months with
colorsTime series:Line
graphBubble chart:Population
ImpactStacked bar chart:Shows
health
factorsStat cards29.8 $\mu\text{g}/\text{m}^3$

97.6%

Basic information

Combine & Refine

- Roughly 8 visualizations
- Scroll-based narrative with text summary explanations
- Color-blind safe colors, initially starting with base 'category 10' colors provided.

Filter

- X Real-time data
- X 3D Visualizations
- X Predictive Models
- X Video / Audio

Too complex
and some features
require maintenance
which is
unnecessary for
this assignment

- ✓ Charts (Static)
- ✓ Hover tooltips
- ✓ Click interactions
- ✓ Scroll navigation
- ✓ Colorblind-safe

CategorizeGeographic:

- Map views
- Spatial Patterns

Temporal:

- Time Series
- Seasonal Patterns

Comparative:

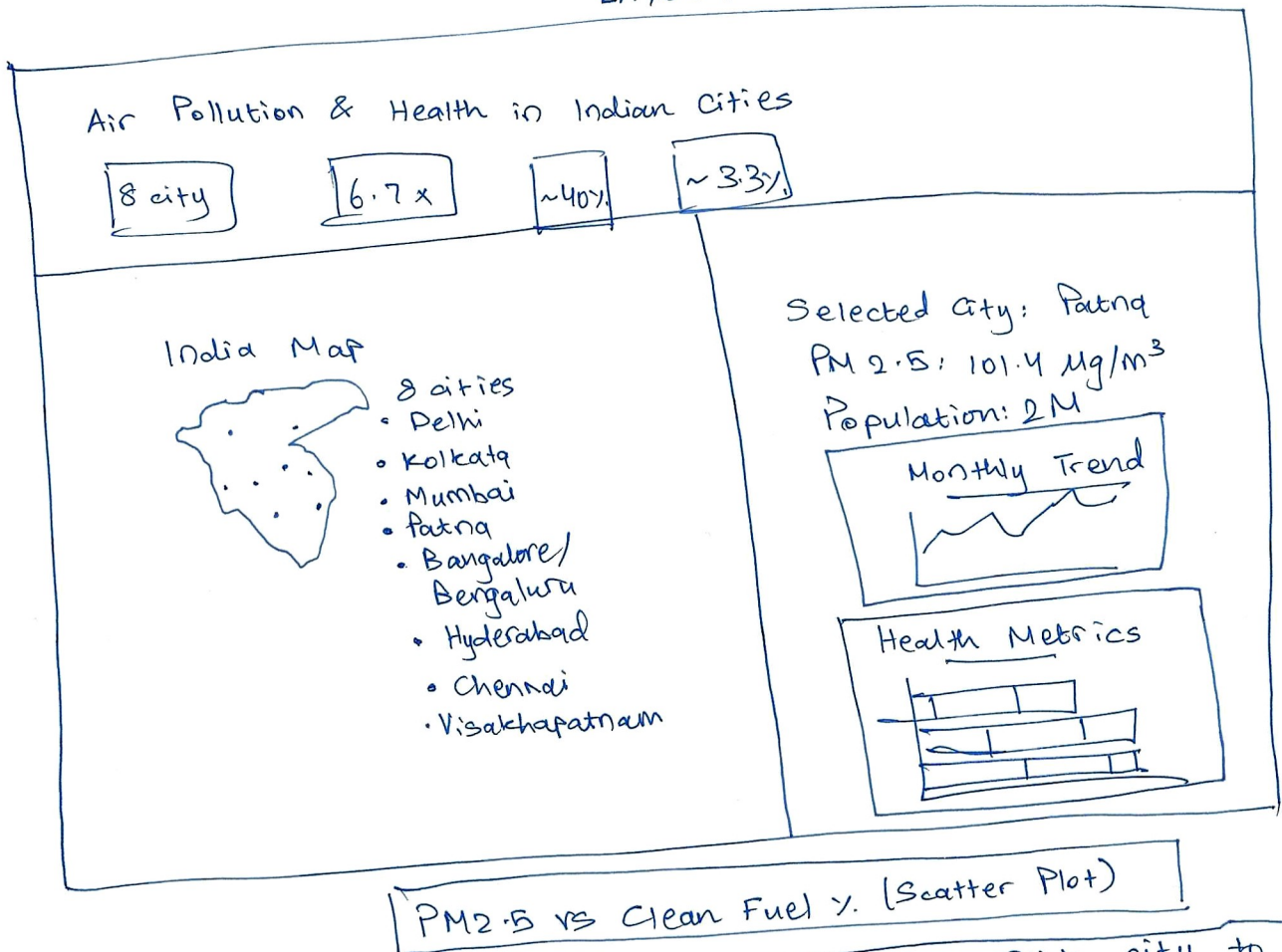
- Bar charts
- Scatter plots
- Rankings

Health Metrics:

- ARI, Malnutrition, Tobacco

Title: Geographic Dashboard

LAYOUT



Focus: Interactive map drives exploration. Click city to filter all the views. Geographic patterns immediately visible.

Operations

- Enable to hover over city \rightarrow tooltip
- Click city \rightarrow filter all
- Click legend \rightarrow toggle
- Drag \rightarrow pan map
- Scroll \rightarrow more charts

Point
in map

City: ...
State: ...
PM 2.5: ...
PM 10: ...

Respiratory Infections: ...
Clean Fuel Use: ...
Tobacco Male: ...

when hovering it, following
information revealed

Discussion

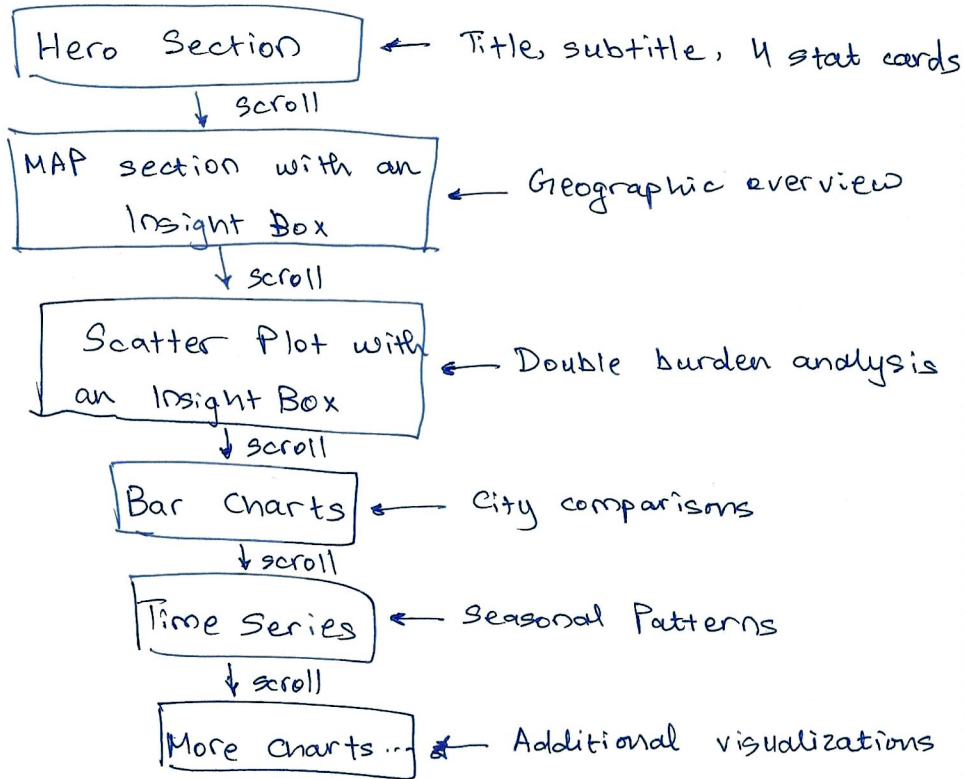
Pros:

- Geographic Context is clear
- Spatial patterns visible
- Interactive exploration
- Data is accessible

Cons:

- Dashboard may be overwhelmed with information
- Requires exploration
- Small screen issues

Layout



Focus:

Linear narrative guides through insights. Each section builds on previous.
Designed for general audience.

Operations

- Scroll → Progressing Story
- Hover → Tooltips
- Click legend → Filter
- Dots → Jump to section
- Top button → return

Discussion

Pros:

- Guided experience
- Builds proper understanding
- Natural reading flow

Cons:

- Linear path only
- Long page
- Narrative is fixed

Layout

Top row Bottom row	Patna 101.4 65% CF 0.7 ARI	Kolkata 77.2 92% CF 2.6 ARI	Jaipur 71.3 60% CF 0.6 ARI	Hyderabad 55.3 99% CF 0.8 ARI	PM2.5 Then a dot with different colors depend on value Clean Fuel % Respiratory Infection Health metric
	Bangalore 51.9 97% CF 0.0 ARI	Chennai 6.7 98% CF 1.0 ARI	Pune 49.8 90% CF 3.3 ARI	Visakhapatnam 41.2 73% CF 2.0 ARI	

Selected: Patna Bangalore ← User Selection

Detailed Comparison Charts
(This will only show selected cities)

Focus:

Card-based interface for flexible city comparison. Select 3-4 cities to analyze in detail.

Operations

- Click card → select
- Click again → ~~select~~ deselect
- Hover → highlight
- Sort button → reorder
- Compare → show selected

DiscussionPros:

- All cities are visible
- Easy to select
- Quick overview
- Flexible comparison

Cons:

- No geographic context
- Limited detail
- Can be cluttered
- No actual narrative

Complete Layout

Air Pollution & Health: The Hidden Crisis

"Text Information"

8 cities

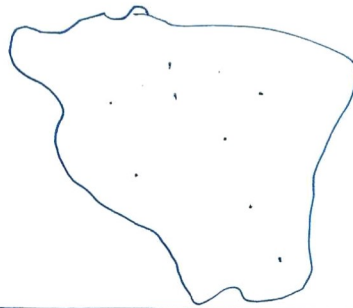
6.7x WHO

40% Unclean

3.3% ARI

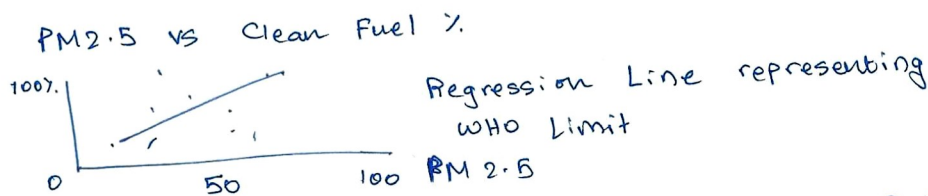
Section 1: Geographic Distribution

India Map (Blue-Orange-Brown)

~~Insight~~

Insight:-- Indo-Gangetic Plain worst affected

Section 2: Double Burden



Section 3: Bar chart

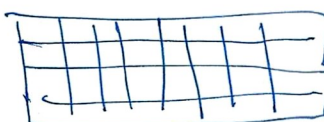


Section 4: Time Series



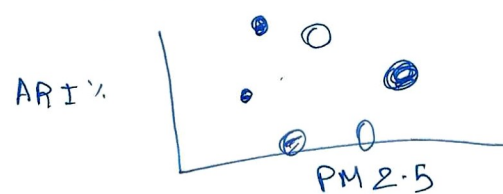
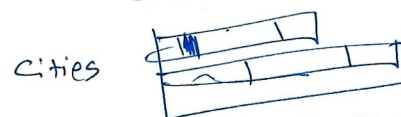
Section 5: Heatmap

Cities



Health Risk Factors

Section 6: Bubble Chart

Section 7: Health Ranking
Stacked Bar chart

Section 8: Radial chart



Operations:

1. Scroll → navigate
2. Hover → tooltips
3. Click legend → Filter
4. Responsive sizing
5. Linked interactions

Detail:

Tech: Vega-Lite v5,
Pure.css
Data: 3 csv files
Colors:
• Blue • Purple
• Orange • Brown
Github page hosting