

Sheet 1

Brainstorm

- Ideas for Malaysian Tourism dataset, potential Ideas

- Category breakdown

- Tourist arrivals

- Expenditure patterns

- Seasonal trends

- Dashboard layout

- Top Destinations

- Economic impact

- Origin countries

Tourism Information

- Yearly statistics

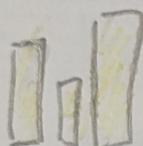
- Popular attractions

- Travel purposes

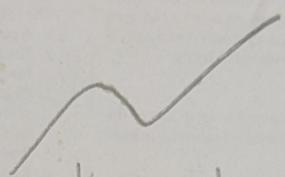
Visualization types:



Pie chart



Bar Chart



line graph



Map visuali

- Category expenditure

- Expenditure breakdown

- Yearly summaries

- Top destinations

- Trend analysis

- Seasonal patterns

- Tourist origin countries

Filter Options:

- Year range

- arrivals range

- State of Entry

Data Categories:

1. Arrivals

2. Expenditure

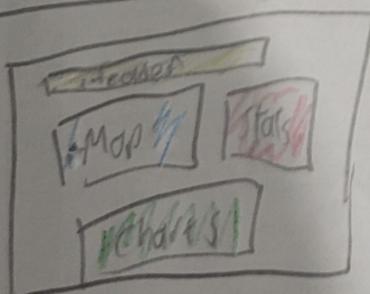
3. Length of stay

4. Purpose of visit

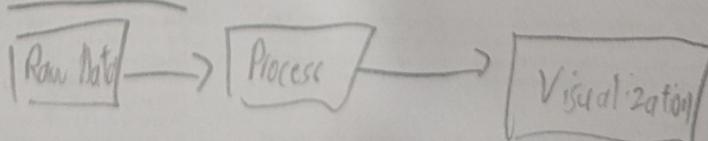
5. Accommodation type

6. Transportation mode

Combine & Refine



Data Flow:



To Do:

1. Gather datasets

2. Clean data

3. Design mockups

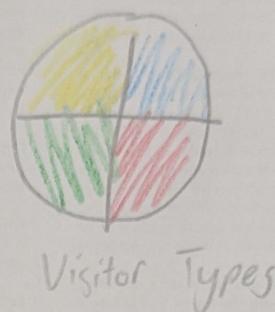
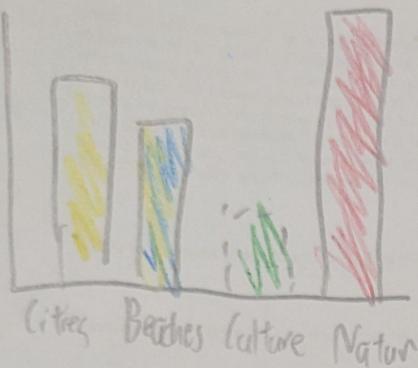
4. Prototype

Notes:

- Focus on user-friendly interface

- Consistent color scheme

- Provide context and insights

Sheet 2: Top Tourism Categories
Layout:

Avg length of stay : 5
Avg expenditure : 5
Avg satisfaction : 5

Average info

Focus:

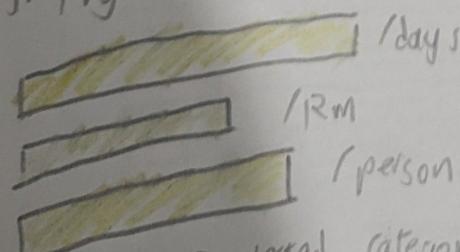
1. Category



Cities Beaches Natur

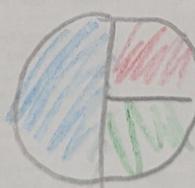
- Highlights when clicked

3. Avg



- average of selected category
data will be changed

2. Visitor Type



According to selected bar

Title: Visualization project
Author: Tecong Kaili Bin
Date: 6 Oct 2024
Sheet: 02

Task: Top tourism categories

Operations

- Display Top categories based on visitor numbers.
- Allow user to select each bar on the bar chart
- Implement Tooltips

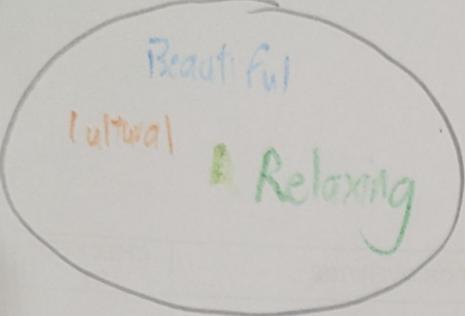
Discussion

- Users are able to select category from the bar chart
- Positive: shows clear changes
- Negative: limited information

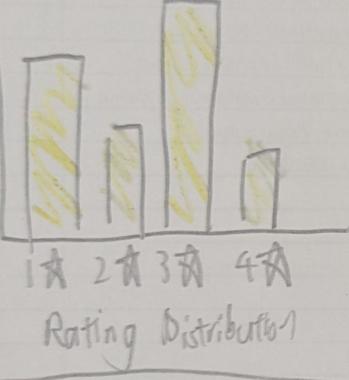
Sheet 3 - Word Review Demonstration

User Interface

Beaches | Cities | Culture | Filter



Word Cloud of reviews



Rating Distribution

Amaun Caruman
No 1, Jalan 1/11
Borang A

PR Enterprise - Main P.

Title: Word Review Visualization
Author: Leong Kai Ben
Date: 6 Oct 2024
Sheet: 03
Task: Visualize Tourist Reviews

Operations

- Update visualizations based on selected category/attractions
- Filter reviews by clicked words
- Show detailed sentiment stats
- Display reviews for selected ratings

Discussion

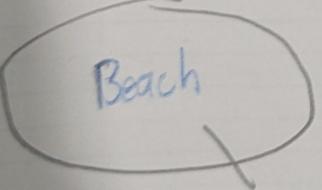
Positives

- Intuitive visualization of review content
- Interactive elements enhance exploration
- Combines quantitative and qualitative data

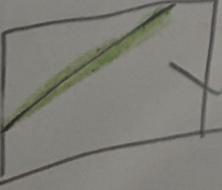
Negatives

- May be overwhelming with large datasets
- Word cloud sometimes be misleading
- Requires regular updates for relevance

Focus:

- 1 Word Cloud Interaction


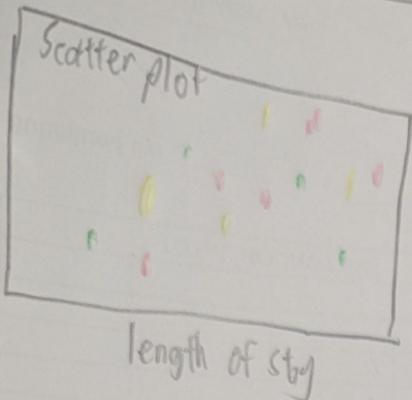
click word to filter reviews

- 2 Sentiment Analysis


Hover for detailed stats

Comparative Analysis

Expense: time



Stacked Bar



GDP 
Tourism GDP 

Focus:

- ## 1. Scattered plot Interaction



- Hover for Tooltips

- ## 2. Radar Chart Interaction



- — Toggle demographic compare

- ### 3. Stacked Bar Interaction



- Hover for tooltips

PB enterprise - Main Page

Payment - Transaction(s) Authorized

Title : Comparative analysis
Author : Leong Kai Bin

Date: 6 Oct 2024

Sheet: 04

Task. Compare Tourism Metrics

Operations

- Allow selection of metrics for comparison
 - Enable toggling of destinations/categories
 - Provide detailed view on interaction
 - Sync selections across all charts

- can be complex for casual users
 - Risk of information overload
 - Requires careful metric selection

Sheet 5

Dashboard

Layout

Malaysia

Tourism

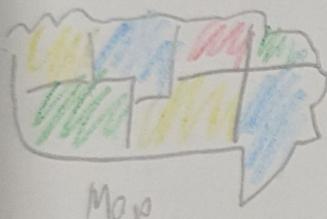
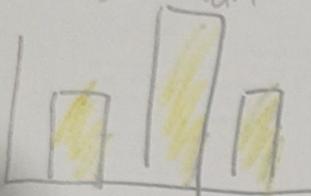
Dashboard

Category

Total arrivals
Bar chart

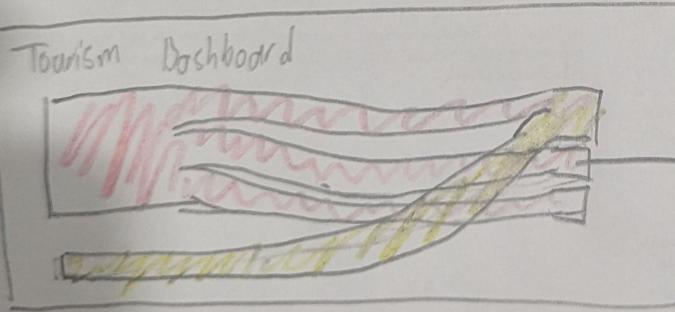
Top Destinations

Avg. Expenditure

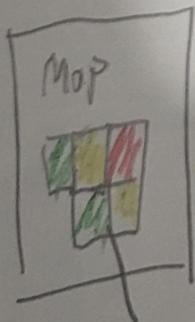


Map

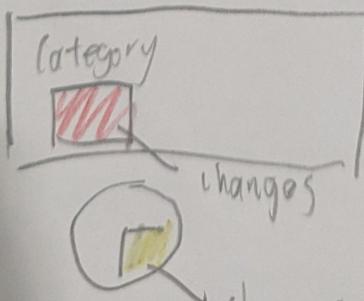
Focus



changes



Map



Category

changes

When user clicks
all dashboard information
will change

Title: Visualization project

Author: Leong Kai Bin

Date: 6 Oct 2024

Sheet: 05

Task: Dashboard

Operations

- User select menu to move to other page within the board
- Each page provides unique insights
- Category: provides Top 10 Summary Info

Discussion

- Implementation will take at least 2 weeks
- Visualization graph will change based on implementation
- Dashboard will be made with html, css and javascript
- Data wrangling will be done in python
- Tools needed: python