Mastercard D&S Platforms Team India

COVID-19 Project Test Plan

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POINT OF CONTACTS

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PM-D Point of Contact	
Key Clients	Mastercard Internal Team

INTRODUCTION

The scope of this project is to create an interactive dashboard which can enable users to perform the following tasks:

1. Study the spread of the COVID-19 Pandemic over time and across 5 countries (India, Italy, Germany, Singapore, USA)
2. Perform detailed analysis by further stratification of the spread based on demographic indicators (age, income, population density)
3. Study recoveries and deaths in addition to the positive cases over time and across the selected geographies
4. Analyse the impact of the spread on 3 Industries (Airlines, Travel & Entertainment, Food)
5. Study and Compare the Government Policy actions and interventions on the 5 countries, as well as their impact on various indicators

The final deliverables of the project are:

1. Working link of the final web dashboard
2. All the code scripts on the Github repository of the project
3. Proper Documentation of each code snippet for the entire project
4. Presentation of the project with individual experience and learning

The task of the SQE during the course of this project would be to ensure the following:

1. Prepare the test plans for the features and components of the project
2. Write automated tests for the working of all Front-End features of the dashboard and ensure they are working properly across browsers and locations
3. Write Front-End Testing to verify graphs and all statistical information is being displayed properly
4. Write and execute analytic testing to verify data on graphs
5. Perform API testing for all APIs to ensure that the entire code pipeline is running smoothly and all use cases and edge cases have been handled.

FEATURE SUMMARY

Requirements

1. Country-Name Button to select Countries:

The Home Page will feature 5 cards which the user can use to select a country among 5 options. There will be clickable cards with the following labels:

I. India

Ii. Italy

Iii. Germany

Iv. Singapore

V. USA

When clicked on the card for a country name as shown in the mockup, the detailed analysis section for that country shows up.

When the user clicks on any of the 5 available country options, the map for that country shows on the screen. The screen should contain the following elements:
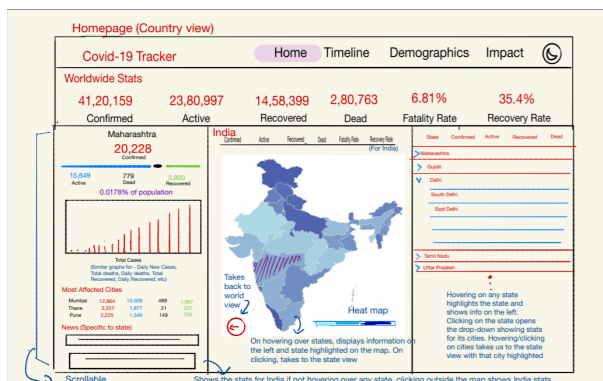
1. Geographical Map of the selected country
2. All the states of the selected country on the geographical map

Mockups

1. Country-name buttons on the Homepage to select the country
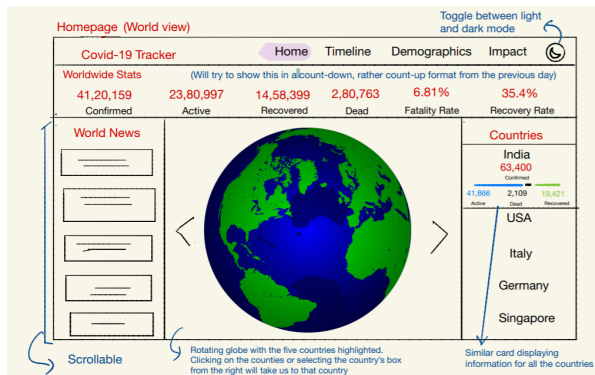
2. Map for the chosen country gets displayed on the screen
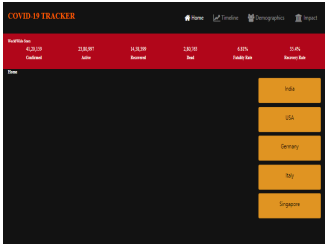

Github Project Task Link
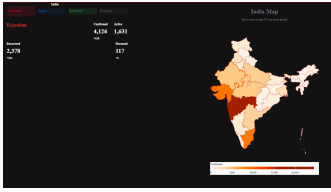
The task status for this feature can be accessed at this [link](#) .

DO NOT FORGET LIST

	Feature	Status
The spelling of Country name should be correct when Country section opens	Country Card	Approved
All maps should scale properly if the dimensions of the page are changes using Zoom In/Zoom Out	Country Maps	Checked (Detailed results in this document)

FRONT END TESTING

Requirement	Case #	Test Steps	Expected Results	Screenshot	Status	Bugs/Notes
Country-name Buttons	1	Visit dashboard weblink	❏ All 5 country-name buttons should be visible ❏ The Title for the buttons should be legible (Spelling, Font, Size, Colour should be correct)		Approved	
					Approved	Any particular reason for the order of countries (India, USA, Germany and so on)?
	2	Click on country card	❏ All country names should fit within the boundary of the card ❏ Spelling, font size and colour for all countries should be clearly legible and consistent ❏ Only the 5 country names visible, without any repetitions or extraneous names		Approved	
					Approved	
					Approved	

3	Hover the cursor over the button	❏ Cursor icon of the mouse should convert to hand icon to enable select option for each country ❏ The country name should be highlighted when the cursor hovers over it		Approved	
				Not Working	Issue Link
7	Click on any 1 country to select it	❏ The country name clicked should be selected, and the section for that country should get displayed ❏ Title of the new section with the country name should be legible (Font. size, colour and spelling should be correct)		Approved	
				Approved	Font size of the country Title could be bigger and the colour could be a different shade for better visibility

Detailed Results for each country:

Requirement	Case #	Test Steps	Expected Result	India	Italy	Germany	Singapore	USA	Notes/Bugs
Map of selected country	1	Click on country name	Map shows up	✓	✓	✓		✓	Singapore topojsons not linked yet
			All states of the	✗	✓	✓		✓	Map of India is not politically

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			country are visible distinctly					correct(Ladakh, Sikkim, Lakshadweep, Nagaland, Telangana missing) Issue Link
	2	Zoom In on webpage	Dimensio ns of map adjusted	✕	✕	✕		✕	**Zoom In works fine till 110%** Zoom, after than map shifts to the next line. Map size dimnishes beyond 175% Zoom
	3	Zoom Out on webpage	Dimensio ns of map adjusted	✓	✓	✓		✓	

PERFORMANCE TESTING

Requirement	Case #	Test Steps	Country	Time Consumed	Status	Notes/Bugs
Dashboard Homepage	1	Access the homepage url	NA	2.467 s	Approved	
Country card	1	Click on the country name and wait for page to load	1. India 2. Italy 3. Germany 4. Singapore 5. USA	0.531 s 0.941 s 0.328 s - 0.367 s	Approved Approved Approved - Approved	
Country Map display	1	Click on country card and wait for the map to load	1. India 2. Italy 3. Germany 4. Singapore 5. USA	0.345 s 0.877 s 0.309 s - 0.352 s	Approved Approved Approved - Approved	

AUTOMATION TESTING

Requirement	Scenario#	Operation	Pull Request Link
Access Dashboard	1	Open dashboard url using driver	
Access Country card	1	Locate the country name cards Click on a country name	