

Mastercard D&S Platforms Team India

COVID-19 Project Test Plan

May 11, 2020



TABLE OF CONTENTS

POINT OF CONTACTS	3
INTRODUCTION	4
FEATURE SUMMARY	5
DO NOT FORGET LIST	7
FRONT END TESTING	8
PERFORMANCE TESTING	10
AUTOMATED TESTING	11

POINT OF CONTACTS

SDE Feature Lead	Aditi Sharma (Aditi.Sharma@mastercard.com)
SQE Lead	Tushar Goswamy (Tushar.Goswamy@mastercard.com)
SQE Mentor	Saumya Goswami (Saumya.Goswami@mastercard.com)
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
- li. Italy
- lii. Germany
- Iv. Singapore
- V. USA

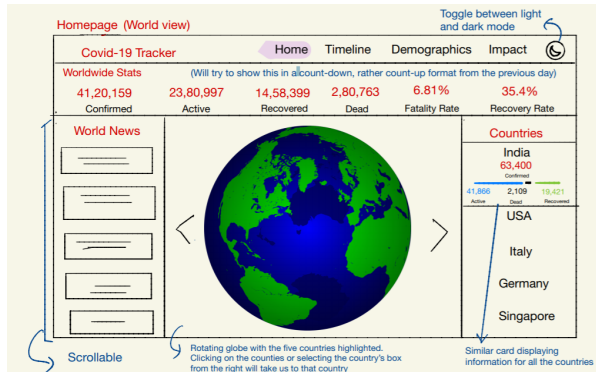
When clicked on the card for a country name as shown in the mockup, the detailed analysis section for that country shows up.

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:

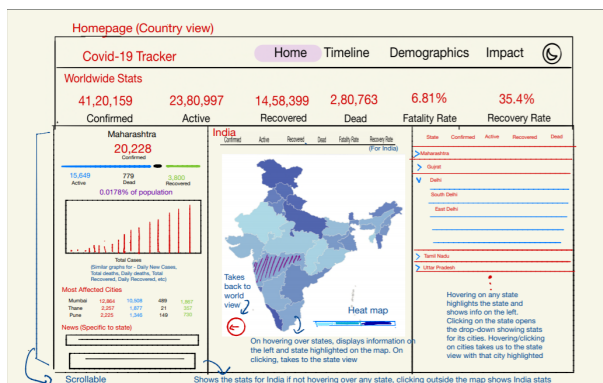
1. Geographical Map of the selected country
2. All the states of the selected country on the geographical map

Mockups

1. Drop-down menu 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
Spelling of Country name should be correct when Country section opens	Country Card	
All maps should scale properly if the dimensions of the page are changes using Zoom In/Zoom Out	Country Maps	

FRONT END TESTING

Requirement	Case #	Test Steps	Expected Results	Screenshot	Status	Bugs/ Notes
Country-name Buttons	1	Visit dashboard weblink	<input type="checkbox"/> All 5 country-name buttons should be visible <input type="checkbox"/> The Title for the buttons should be legible (Spelling, Font, Size, Colour should be correct)			
	2	Click on country card	<input type="checkbox"/> All country names should fit within the boundary of the card <input type="checkbox"/> Spelling, font size and colour for all countries should be clearly legible and consistent <input type="checkbox"/> Only the 5 country names visible, without any repetitions or extraneous names			
	3	Hover the cursor over the button	<input type="checkbox"/> Cursor icon of the mouse should convert to hand icon to enable select option for each country			

			<input type="checkbox"/> The country name should be highlighted when the cursor hovers over it			
	7	Click on any 1 country to select it	<input type="checkbox"/> The country name clicked should be selected, and the section for that country should get displayed <input type="checkbox"/> Title of the new section with the country name should be legible (Font. size, colour and spelling should be correct)			

Require ment	Case #	Test Steps	Expected Result	India	Italy	Germany	Singapore	U S A	Notes /Bugs
Map of selected country	1	Click on country name	Map shows up						
			All states of the country are visible distinctly						
	2	Zoom In on webpage	Dimensions of map adjusted						
	3	Zoom Out on webpage	Dimensions of map adjusted						

PERFORMANCE TESTING

Requirement	Case #	Test Steps	Country	Time Consumed	Status	Notes/Bugs
Dashboard Homepage	1	Access the homepage url	NA			
Country card	1	Click on the country name	1. India 2. Italy 3. Germany 4. Singapore 5. USA			
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			

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	