Mastercard D&S Platforms Team India

COVID-19 Project Test Plan

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TABLE OF CONTENTS

POINT OF CONTACTS

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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. Homepage with latest statistics display:

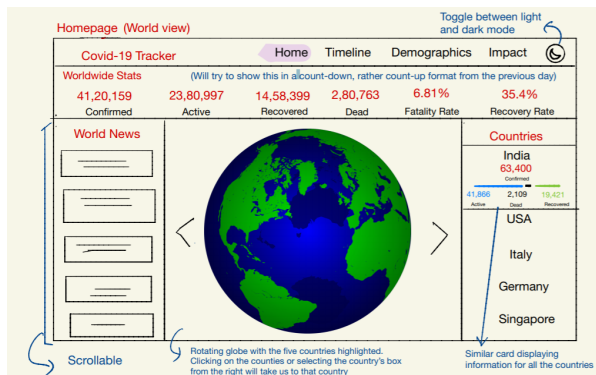The Home Page will feature a 'Header Bar' with the following options:

I. Home

Ii. Timeline

Iii. Demographics

Iv. Impact

There will also be a 'Worldwide Stats Bar' at the top that will display the latest statistics for the following categories:

I. Confirmed Cases

Ii. Active Cases

Iii. Recovered Cases

Iv. Deaths

V. Fatality Rate

Vi. Recovery Rate

Mockups

1. Homepage with the latest Statistical Information Display

Github Project Task Link

The task status for this feature can be accessed at this link .

DO NOT FORGET LIST

	Feature	Status
Verify Calculations for Fatality Rate and Recovery Rate	Worldwide Stats Bar	
Check Display values for very large inputs	Worldwide Stats Bar	

FRONT END TESTING

Requirement	Case #	Test Steps	Expected Results	Screenshot	Status	Bugs/Notes
Worldwide Stats Bar	1	Visit dashboard weblink	❏ Title of the Dashboard should be clearly visible ❏ Font, Colour, Size and Spelling of the Title should be correct ❏ Title of the 'Worldwide Stats bar' should be clearly visible ❏ Data for 'Confirmed', 'Active', 'Recovered', 'Dead', 'Fatality Rate', 'Recovery Rate' should be updated and clearly visible			
	2	Change Page dimensions using Zoom In/Zoom Out	❏ All Titles should adjust size accordingly and be legible ❏ Statistical information should adjust size accordingly and be legible ❏ Statistical figures should not overlap with			

			adjacent figures			
Header Bar	1	Hover over the icons in Header Bar	❏ 'Home', 'Timeline', 'Demographics' and 'Impact' titles should be clearly visible ❏ Cursor Icon should convert to hand icon ❏ The appropriate Title should get selected			
Chrome Browser Tab Display (Favicon)	1	Visit Dashboard weblink using Chome browser/driver	❏ Title on the Chrome tab should read COVID19 Visualiser ❏ The icon on the tab should be MC logo			

PERFORMANCE TESTING

Requirement	Case #	Test Steps	Time Consumed	Status	Notes/Bugs
Dashboard Homepage	1	Access the homepage url			
Worldwide Stats Bar	1	Wait for all the statistical figures to load			

AUTOMATION TESTING

Requirement	Scenario#	Operation	Pull Request Link
Access Dashboard	1	Open dashboard url using driver	
Access Options on the Header Bar	1	Hover over 'Timeline' option Hover over 'Demographics' option Hover over 'Impact' option	

ANALYTIC TESTING

Scenario	DB	Description	Value	Expected	Actual	Status
1	CovidViz	Test Display value	Null	'No Data available' should be displayed		
2			0	0 should be displayed		
3			Negative	'Invalid Data' should be displayed		
4			10^9	Complete value should be displayed without any overlap		
5		Verify calculation for Fatality Rate	NA	Value computed and displayed on the dashboard should match		
6		Verify calculation for Recovery Rate	NA	Value computed and displayed on the dashboard should match		