DisasterGuard: Real-Time Natural Disaster Prediction and Safety Advisory App

Test plan:

The test plan for the DisasterGuard app involves conducting functionality testing to ensure that each feature operates as expected. The testing will cover the eight identified functional requirements, including real-time temperature monitoring, disaster alerts, safety guidelines, user reporting, emergency rescue, contact lists, disaster preparation checklists, and volunteer coordination. Functionality testing will be conducted by a team consisting of a Lead Tester, two Senior Testers, and three Junior Testers. Each tester will be responsible for specific features, ensuring comprehensive coverage. The testing will be implemented using unit tests for individual components, system testing to verify the app's overall functionality, and integration testing to ensure that different parts of the system work together seamlessly. After functionality testing, acceptance testing will be conducted to validate that the app meets the end-users' needs and business requirements. This phase will involve key stakeholders and will be carried out in the last week, ensuring that the app is ready for deployment. Functionality testing will take place during the first two weeks, followed by acceptance testing in the final week.

Project Name : DisasterGuard: Real-Time Natural Disaster Prediction and Safety Advisory App	Test Designed by : Md. Abu Towsif
Test Case ID : FR_15	Test Designed date :02-09-2024
Test Priority(Low, Medium, High) : High	Test Executed by :
Module Name : Rescue Team in Emergency situation upon users request	Test Execution date :

Test Title: The app shall send emergency rescue team to the user upon users request for emergency help

Description: Test the app's ability to send a rescue team to the user's location upon request and track the user's real-time location.

Precondition (If any): The user must have give location access to the Disasterguard app

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass / Fail)
 Open the application Go to the Rescue Team page Enter Request Type Location will be auto fetched of the user Click on 'Submit' 	Request Type: "Rescue Emergency"; User Location: "Kuratoli, Dhaka".	After click on the 'Submit' button the app shall receive the rescue request and send team to that specific location for rescue the user		

Post Condition: User is successfully rescued from the emergency location and reached at a safe place.

Project Name : DisasterGuard: Real-Time Natural Disaster Prediction and Safety Advisory App	Test Designed by : Md. Abu Towsif
Test Case ID : FR_7	Test Designed date :02-09-2024
Test Priority(Low, Medium, High): High	Test Executed by :
Module Name: Real-Time Temperature Monitoring:	Test Execution date :

Test Title: The app shall display real-time temperature data for the user's current location.

Description: Verify that the app displays accurate real-time temperature data for the user's current location and allows viewing temperatures for other locations.

Precondition (If any): The user must have allow access location and GPS enabled

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass / Fail)
 Open the application By default app will be redirected to the 'Home' page If not, go to the 'Home' page 	Location: "Kuratoli" GPS Enabled: "Yes".	The app should display the current temperature for New York, NY, and allow viewing temperatures for other cities.		

Project Name : DisasterGuard: Real-Time Natural Disaster Prediction and Safety Advisory App	Test Designed by : Md. Abu Towsif		
Test Case ID : FR_19	Test Designed date :02-09-2024		
Test Priority(Low, Medium, High) : High	Test Executed by :		
Module Name: Emergency Contact List Test Execution date:			
Test Title: The app shall allow users to create and manage a list of emergency contacts.			

Description: Ensure that the app allows users to manage a list of emergency contacts and notifies them when the user is in a disaster-affected area.

Precondition (If any):

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass / Fail)
 Open the application Go to the 'Contact List' page Add or edit contact list 	Contact Name: "Md. Abu Towsif" Contact Number: "01883838383"	The app should add the contact to the emergency list and notify them if the user is in a disaster-affected area		

Project Name : DisasterGuard: Real-Time Natural Disaster Prediction and Safety Advisory App	Test Designed by : Md. Abu Towsif	
Test Case ID : FR_21	Test Designed date :02-09-2024	
Test Priority(Low, Medium, High) : High	Test Executed by :	
Module Name: Disaster Preparation Checklists	Test Execution date :	

Test Title: The app shall provide checklists for users to prepare for various types of natural disasters.

Description : Verify that the app provides customizable checklists for disaster preparation and sends reminders for completing tasks.

Precondition (If any): User should log in to the application using userid and password to save their checklists in the database

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass / Fail)
 Open the application Go to the 'Checklist' page Edit and maange the checlists 	Checklist Type: "Hurricane Preparedness"; Task: "Stock up on water".	The app should allow the user to customize the checklist and send reminders for completing the tasks.		

Project Name : DisasterGuard: Real-Time Natural Disaster Prediction and Safety Advisory App			Test Designed by : FARJANA YESMIN OPI	
Test Case ID : FR-8			Test Designed date: 02/09/2024	
Test Priority(Low, Medium	, High) : High		Test Executed by :	
Module Name : Disaster Ale	erts and Forecast		Test Execution date	:
Test Title : Disaster Alert No	otification Accuracy	Test		
Description: Verifies that disaster alerts are accurate, timely, and corre		ectly delivered to use	rs.	
Precondition (If any): The system must have access to current and acc		curate disaster data to	generate and test alerts.	
Test Steps Test Data Expected Results		Actual Results	Status (Pass / Fail)	
 Open the Application Allow to access location Check notification 	Location: Kuratoli, Dhaka	User receives the alert notification through the email or SMS within the expected timeframe.		

Post Condition : The user is notified of the relevant information according to their location.

Project Name : DisasterGuard: Real-Time Natural Disaster Prediction and Safety Advisory App	Test Designed by : MD SIFAT HOSEN	
Test Case ID : FR-23	Test Designed date: 02/09/2024	
Test Priority(Low, Medium, High): High	Test Executed by :	
Module Name: Volunteer Coordination and Support	Test Execution date :	

Test Title: Volunteer Availability Update

Description: Test the app's feature for coordinating volunteer efforts, allowing user to sign up for opportunities and communicate with organizations

Precondition (If any): The volunteer is already registered and has an active account in the system.

Tes	st Steps	Test Data	Expected Results	Actual Results	Status (Pass / Fail)
1	g Into the plication	Volunteer Role : 'Food Distribution'	The app should allow the user to sign up for the role and receive		
	vigate to the blunteer' page	Availability: 'Weekends'	on volunteer needs		
_	gn up as a blunteer'				
ava acc	anage and check ailability and cessibility date				

Project Name :DisasterGuard: Real-Time Natural Disaster Prediction and Safety Advisory App	Test Designed by : MD. MASUM BILLAH NABIL
Test Case ID : VR_11	Test Designed date :2-9-2024
Test Priority(Low, Medium, High) : Medium	Test Executed by :
Module Name : User Reporting in Emergency	Test Execution date :
Test Title - Verify Emergency Deport Assumery	

Test Title: Verify Emergency Report Accuracy

Description : Confirm that the information submitted by users in emergency reports is accurately captured and reflected in the system.

Precondition (If any):

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass / Fail)
1.Check 'Report Emergency' is present. 2.Click and confirm the reporting page loads. 3.Verify form fields are correct and data is processed. 4.Simulate errors and verify app responses.	Emergency Type: 'Flood in downtown area' Media: 'Attached Image'	The app should allow user to submit the emergency report successfully		

Project Name :DisasterGuard: Real-Time Natural Disaster and Safety Advisory App	Test Designed by : SABED BIN SARWAR	
Test Case ID : VR_10	Test Designed date :2-9-2024	
Test Priority(Low, Medium, High): High	Test Executed by :	
Module Name : Safety Guidelines and Procedure	Test Execution date :	

Test Title: Safety Protocols and Procedures availability

Description : Ensure that the app provider relevant safety guidelines and procedures for various natural disasters, including evacuation routes and emergency contacts.

Precondition (If any): The emergency reporting system must be fully operational and accessible to users.

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass / Fail)
1.Review the safety guidelines and procedures documentation to ensure all requirements are understood. 2.Conduct a walkthrough or simulation of the procedures in a controlled environment to verify adherence. 3.Assess compliance through observation and documentation, and address any discrepancies or areas for improvement.	1.Safety Protocol Documents 2.Incident Scenarios 3.Compliance Checklists	Ensures that the safety guidelines are implemented correctly and are effective in real-world scenarios.		