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**Submitted to**

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# SOFTWARE REQUIREMENTS SPECIFICATION

Requirements analysis is the best process for identifying the user satisfaction

From the system. So, requirements analysis is an important part of project management. When I selected this project, I thought about some specific software requirements, like as

- Ø Who is the stakeholder of this project?
- Ø Is it helpful for them or not?
- Ø Functional and non-functional requirements
- Ø Maintenance of the system
- Ø Is it efficient for use?

## 2.1 Functional Requirement

The functional requirements of the system are like below---

## Registration

FR-01	Registration
Description	Super Admin, Admin, and users first need to register themselves by using their name, email, phone, and password.
Stakeholder	Super Admin, Admin, and users

## Login

FR-02	Login
Description	Allocate users can log in using email and password. The database will check the username and password to match the person that they are authorized to use.
Stakeholder	Super Admin, Admin, and users

## Map show

FR-03	Map show
Description	Users can show the map here and also access the current place.
Stakeholder	Admin, and users

## Latitude & Longitude

FR-04	Latitude & Longitude
Description	Users can provide latitude & longitude to access any place.
stakeholder	Admin, and users

## Current Location alert

FR-05	Current Location alert
Description	Users can provide latitude and longitude to access their current location to alert them of the disasters.
stakeholder	Admin, Users

## Search

FR-05	Search
Description	Users can search for a place to detect disasters.
stakeholder	Admin Users

## Alert

FR-07	Alert
Description	Users can get alerts from the place by using our app.
stakeholder	users

## Path of the safe zone

FR-08	Path of the safe zone
Description	Users can view the safe zone to be aware of the disaster.
stakeholder	Users

## weather Forecast

FR-09	weather Forecast
Description	Users can watch the weather forecast here.
stakeholder	Users

## Daily disaster

FR-10	Daily disaster
Description	Users can easily update about the daily disaster from our app.
stakeholder	Users

## Earthquake detect

FR-11	Earthquake detect
Description	Users can detect earthquakes from the map by using our app.
stakeholder	Users

## Strom detect

FR-12	Strom detect
Description	Users can detect Storm from the map by using this app.
stakeholder	Users



## Drought detect

FR-13	Drought detect
Description	Users can detect Drought from the map by using this app.
stakeholder	Users

## Blizzard detect

FR-14	Blizzard detect
Description	Users can detect Blizzard from the map by using this app.
stakeholder	Users

## Wildfire detect

FR-15	Wildfire detect
Description	Users can detect Wildfire from the map by using this app.
stakeholder	Users

## Zone alert

FR-16	Zone alert
Description	Users can watch the color of safe and unsafe zones from this app.
stakeholder	Users

## Get Temperature (5-day forecast)

FR-17	Get Temperature (5-day forecast)
Description	There will be an option in this for showing a 5 day forecast.
stakeholder	Users

## Show in °F

FR-18	Show in °F
Description	Weather will be shown in °F.
stakeholder	Users

## Feels like

FR-19	Feels like
Description	In this segment users can notify about what the weather feels like.
stakeholder	Users

## Chance of rain

FR-20	Chance of rain
Description	Chance of rain is also shown here in this app.
stakeholder	Users

## Precipitation (shown in inches)

FR-21	Precipitation (shown in inches)
Description	There will be perception in weather which will be permitted by inches.
stakeholder	Users

## Humidity

FR-22	Humidity
Description	Humidity is also shown in the weather forecast segment.
stakeholder	Users

## Wind direction

FR-23	Wind direction
Description	There will be a wind direction in the app.
stakeholder	Users

## wind speed

FR-24	wind speed
Description	Users can easily get notified about the wind speed from our app.
stakeholder	Users

## Explore Galaxy

FR-25	Explore Galaxy
Description	Here in this segment users can explore the galaxy and this will have some fun to explore from the app.
stakeholder	Users

## Prepared advice on disasters using maps

FR-26	Prepared advice on disasters using maps
Description	Users can prepare themselves by getting advice or alerts from the disaster using a map.
stakeholder	Users

## Track natural disasters in real-time

FR-27	Track natural disasters in real-time
Description	Users can track natural disasters from this app.
stakeholder	Users

## Monitoring locations and specific hazards

FR-28	Monitoring locations and specific hazards
Description	Users could monitor specific hazards as well.
stakeholder	Users



## Sending safety alerts

FR-29	Sending safety alerts
Description	Users will notify from this app that he/she will get a safety alert.
stakeholder	Users

## Notification

FR-30	Notification
Description	Notification will be there for the user that they can notify about the disaster from this app.
stakeholder	Users

## Message

FR-31	Message
Description	There will be a chatting option there for any issues.
stakeholder	Users

## Explore Mars

FR-32	Explore Mars
Description	Users can explore mars here as well and that will be fun as well.
stakeholder	Users

## Validity checks

FR-33	Validity checks
Description	There will be a validation of everything they can check there by using the app.
stakeholder	Users

## Sol hours with data

FR-34	Sol hours with data
Description	They can sol hours with data.
stakeholder	Users

## View cards (Research documentation of mars)

FR-35	View cards (Research documentation of mars)
Description	Users will see the research documentation here with a card view.
stakeholder	Users

## Contact

FR-36	Contact
Description	Contact options will be there for the users.
stakeholder	Users

## Loading spinner

FR-37	Loading spinner
Description	There will be a loading spinner there to show data when it comes from the backend.
stakeholder	Users

## FAQ

FR-38	FAQ
Description	There will be an option for the user to frequently ask questions.
stakeholder	Users

## Terms And Conditions

FR-39	Terms And Conditions
Description	Terms and conditions will be there for some rules and regulations.
stakeholder	Users

## Dashboard(for admin)

FR-40	Dashboard(for admin)
Description	There will be a dashboard for admin. Only the admin can view this.
stakeholder	Admin

## Dashboard(for super admin)

FR-41	Dashboard(for super admin)
Description	There will be a dashboard for admin. Only the admin can view this. Here super admin can add admin and super admin as well.
stakeholder	Super-Admin

## Dashboard(for users)

FR-42	Dashboard(for users)
Description	There will be a dashboard for users. Only the users can view this.
stakeholder	Users

## User controls

FR-43	User controls
Description	And there will be a control segment where they can add, edit and delete.
stakeholder	Users

## Admin controls

FR-44	Admin controls
Description	And there will be a control segment where they can add, edit and delete.
stakeholder	Admin



## Super Admin controls

FR-45	Super Admin controls
Description	And there will be a control segment where they can add, edit and delete.
stakeholder	Super admin

## Earthquake tips

FR-46	Earthquake tips
Description	There will be an option for the tips of earthquakes.
stakeholder	Users

## Strom tips

FR-47	Strom tips
Description	There will be an option for the tips of storms.
stakeholder	User

## Flood tips

FR-48	Flood tips
Description	There will be an option for the tips of flood.
stakeholder	Users

## Drought tips

FR-49	Drought tips
Description	There will be an option for the tips of drought.
stakeholder	Users

## Blizzard tips

FR-50	Blizzard tips
Description	There will be an option for the tips of blizerds.
stakeholder	Users

## Wildfire tips

FR-51	Wildfire tips
Description	There will be an option for the tips of wildfire.
stakeholder	Users

## Help Center

FR-52	Help Center
Description	There will be a help center for the user where they can inform us if they face any issues.
stakeholder	Users

## Emergency contacts

FR-53	Emergency contacts
Description	There will be an option for emergency contacts. There we will put some emergency contact information for the user that they could get any service if they face a natural disaster.
stakeholder	Admin, Users

## About us

FR-54	About us
Description	Here we will put our info for the users.
stakeholder	Super-admin, Users

## Donors list

FR-55	Donors list
Description	There will be donors for the victims of natural disasters. So they will be shown here if anyone helps someone by using our app.
stakeholder	Admin, Users

## Add Request

FR-56	Add Request
Description	Donor will send us a request for approval.
stakeholder	Admin, Users

### Cancel request (within 24 hours)

FR-57	Cancel request (within 24 hours)
Description	They can cancel that as well and also they have permission to the admin to cancel any request.
stakeholder	Admin, Users

### Donors payable request

FR-58	Donors payable request
Description	They can request payment for someone through the app. The request will be shown here and the admin will control this.
stakeholder	Admin, users

## Donors-Leaderboard

FR-59	Donors-Leaderboard
Description	There will be a leaderboard in the app for the donors.
stakeholder	Admin, Users

## Logout

FR-60	Logout
Description	Allocate users can log out from the app.
stakeholder	Super-Admin, Admin, Users



## 2.2 Non Functional Requirements

### 2.2.1 Security

NFR-01 Security	
Description	Using token-based authentication, session, validation 2FA it will be Secure from unauthorized access.
Priority	High

### 2.2.2 Availability

NFR-02 Availability	
Description	The system should work 24/7 as user can get access and service.
Priority	High

### 2.2.3 Accuracy

NFR-03	Accuracy
Description	Data or process requirement concerned with defining the precision which the solution will record or produce data.
Priority	High

### 2.2.4 Maintenance

NFR-04	Maintenance
Description	Its way how easy to support, change and enhance the system.
Priority	High

### **2.1.1 Speed and Latency Requirements**

1. Dataset would be inserted in Mongo Databases
2. UI design-build on the user fulfills table data set and show.

### **2.1.2 Precisions or Accuracy Requirements**

1. All users are capable to show accurate pages.
2. Admin can Update any information
3. Admin can manage any information (NDAS).
4. Admin can add and delete components as well. (NDAS).

### **2.1.3 Capacity Requirements**

1. At times multiple users can use this system.
2. Users can track natural disasters with the help of maps.

## **2.2 Dependability Requirements**

### **2.2.1 Reliability Requirements**

1. Super Admin, Admin, and users should log in to the system using their valid email and password after registration.

### **2.2.2 Availability Requirements**

1. When we are using this system need to connect it to MongoDB & run the server side as well for localhost.
2. Need to know commands to run properly and easily.
3. This web application should run on a web browser and it's a responsive website anyone can browse this via mobile phone as well. (Preferable browser is Chrome, Firefox, and Internet Explorer).

## **2.3 Maintainability and Supportability Requirements**

### **2.3.1 Maintenance Requirements**

1. If we need data to recover or update then the super admin will solve this.
2. We need to maintain all security and other work.

### **2.3.2 Supportability Requirements**

1. When the system did not work perfectly then need to check the database and other work.
2. Update security patches and other systems.

### **2.3.3 Adaptability Requirements**

1. This is a very important website.
2. This website can help people to aware about natural disaster.

### **2.3.4 Scalability or Extensibility Requirements**

1. This website is good and reliable for each and every one.
2. Website is good to help for awareness of natural disasters.

## **2.4 Security Requirements**

### **2.4.1 Access Requirements**

1. Only registered users access this main system.
2. Guest cannot allow for this system's main work.

### **2.4.2 Integrity Requirements**

1. This website cannot access another user like guest user.

### **2.4.3 Privacy Requirement**

1. Here we are using activate user system.