**5. NON – FUNCTIONAL REQUIREMENTS**

A careful specification and adherence of non-functional requirements such as performance, security, privacy and availability are crucial to the success or failure of any software system.

**5.1 Performance Requirements**

* The capability of the application depends on the performance of the servers. Anyone can use the application easily because of good GUI.
* The application can take any number of users provided the database size is large enough. It depends on the available memory space in database.
* On mobile devices and laptops, the battery is a scarce and valuable resource. The battery should remain maximally available for the application to perform well. Your application may therefore fall by the wayside or even get uninstalled by the user, if it drains too much battery.
* The text font size may need to be adjusted up (for high resolution screens) or down (for low resolution screens) so as to keep the text readable.

**5.2 Safety Requirements**

* The layout may need to be taken care of and adjusted to increase or decrease the spacing between and around labels and widgets shown on the screen so as to prevent them from getting clustered together on high-res screens or spaced apart too much on low-res screens.
* Any images used in the project have to be provided in two different versions: a large size/high resolution version and a small size/low resolution version so that it properly fills the amount of physical space available on the screen.

**5.3 Security Requirements**

* Although security is the utmost priority and has been taken care the most but care must be taken against virus and malware threats.
* This application will be available for all the users within the Internet. The system server should be up for 365 days and the downtime should be minimized in case of any attack or difficulties.
* Firewall should be used on the user’s system to prevent any suspicious activity.

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**5.4 Software Quality Attributes**

* 24x7 availability of the system with suitable updating at regular interval of time. To maintain integrity of the data and in order to ensure the security of the database by asking them to sign up for the application.
* Form validation so that only real users access the system. An error message should be displayed in case of improper working of the application.
* Email -ID entered should be valid as OTP is sent to that Email ID.
* The application can be accessed at any place that has Internet connectivity.
* Always save the data before closing the website.
* An error message should be displayed in case of improper working of the application.
* 24 hours availability of internet connection is required.

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