

## Project Design Phase-II

### Solution Requirements (Functional & Non functional)

<b>Date</b>	<b>22October 2022</b>
<b>Team ID</b>	<b>PNT2022TMID18864</b>
<b>Project Name</b>	<b>VirtualEye - Life Guard for Swimming Pools to Detect Active Drowning</b>
<b>Maximum Marks</b>	<b>4 Marks</b>

#### Functional Requirements:

Following are the functional requirements of the proposed solution.

<b>FR No.</b>	<b>Functional Requirement (Epic)</b>	<b>Sub Requirement (Story / Sub-Task)</b>
<b>FR-1</b>	User Registration	<b>Registration through Form</b>
<b>FR-2</b>	User Confirmation	<b>Confirmation via Email</b>
<b>FR-3</b>	User Profile	<b>Filling the profile page after logging in</b>
<b>FR-4</b>	Uploading Dataset (Leaf)	<b>Images of the leaves are to be uploaded</b>
<b>FR-5</b>	Requesting solution	<b>Uploaded images is compared with the pre-defined Model and solution is generated</b>
<b>FR-6</b>	<b>Downloading Solution</b>	<b>The Solution in pdf format which contains the recommendations of fertilizers and the possible diseases.</b>

#### Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

<b>FR No.</b>	<b>Non-Functional Requirement</b>	<b>Description</b>
<b>NFR-1</b>	<b>Usability</b>	<b>The system allows the user to perform the tasks easily and efficiently and effectively.</b>
<b>NFR-2</b>	<b>Security</b>	<b>Assuring all data inside the system or its part will be protected against malware attacks or unauthorized access.</b>
<b>NFR-3</b>	<b>Reliability</b>	<b>The website does not recover from failure quickly ,it takes time as the application is running in single server</b>
<b>NFR-4</b>	<b>Performance</b>	<b>Response Time and Net Processing Time is Fast</b>
<b>NFR-5</b>	<b>Availability</b>	<b>The system will be available up to 95% of the time</b>
<b>NFR-6</b>	<b>Scalability</b>	<b>The website is scalable</b>