

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

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<i>Team ID</i>	<i>PNT2022TMID39070</i>
<i>Project Name</i>	<i>Project – Real Time Water Quality Monitoring And Control System</i>

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
<i>FR-1</i>	<i>Users Authorization levels</i>	<i>Complete mapping are given in a hierarchical manner in order to show only the specific Data.</i>
<i>FR-2</i>	<i>Historical Data</i>	<i>The Data are stored in the cloud from the beginning stage till the Updation .</i>
<i>FR-3</i>	<i>User Authentication</i>	<i>The credentials is accessible only to the authorized users to access the model</i>
<i>FR-4</i>	<i>Users rules and laws</i>	<i>There is some specific guidelines which has to be followed by the users.</i>

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
<i>NFR-1</i>	Usability	<i>The Final data should be easily understandable .</i>
<i>NFR-2</i>	Security	<i>The model are designed in a secured manner in order to maintain the privacy</i>

NFR-3	Reliability	<i>Even if there is a firmware issues (failures) the last updated Data 's are stored in a Default manner.</i>
NFR-4	Performance	<i>High quality sensors are used to ease the customers work.</i>
NFR-5	Availability	<i>The model are designed in such a way that are available ,usable and can be modified anytime.</i>
NFR-6	Scalability	<i>The System are Scaled according to the size of the water body (varies)</i>