

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR1	Data Collection and Sensor Integration	FR1.1: Install water quality sensors at strategic locations
		FR1.2: Establish communication between sensors and data system
		FR1.3: Ensure real-time data transmission from sensors
FR2	Data Processing and Analysis	FR2.1: Develop algorithms for water quality analysis
		FR2.2: Implement anomaly detection and alert mechanisms
		FR2.3: Perform statistical analysis and trend identification
FR3	Data Storage and Management	FR3.1: Design and implement a centralized data storage system
		FR3.2: Ensure secure and scalable storage of water quality data

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		FR3.3: Enable efficient data retrieval for analysis and reporting
FR4	User Interface and Reporting	FR4.1: Develop a user-friendly web and mobile interface
		FR4.2: Display real-time water quality information and metrics
		FR4.3: Generate customizable reports and alerts for users
FR5	System Integration and Scalability	FR5.1: Integrate with existing water management systems
		FR5.2: Ensure scalability to accommodate growing data and sensors
		FR5.3: Enable seamless data exchange with external stakeholders