

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

Date	16 October 2022
Team ID	PNT2022TMID00150
Project Name	Project – Virtual Eye Drowning detection system
Maximum Marks	4 Marks

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Person Detection	Using YOLO method
FR-4	Person Identification	Using opencv2,os,numpy
FR-5	Alert Trainer	Using playsound module
FR-6	Web Deployment	Using Flask

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Effectiveness, efficiency, and overall satisfaction of the user while interacting with the application
NFR-2	<b>Security</b>	Authentication, authorization, and encryption of the application
NFR-3	<b>Reliability</b>	Probability of failure-free operations in a specified environment for a specified time
NFR-4	<b>Performance</b>	How the application is functioning and how responsive the application is to the end-users
NFR-5	<b>Availability</b>	Without near 100% availability, application reliability and the user satisfaction will affect the solution
NFR-6	<b>Scalability</b>	The capacity of the application to handle growth, especially in handling more users.