

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

Date	03 October 2022
Team ID	PNT2022TMID21352
Project Name	Project – A NOVEL METHOD FOR HANDWRITTEN DIGIT RECOGNITION
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	Smart Keyboard	Enable button to allow handwriting through fingers or stylet Select button to switch between languages
FR-2	Smart scanner	Select button to scan the handwriting Copy button to allow copy the recognized text
FR-3	Smart Document editor	Enable button to allow handwriting, converting it to text in the document
FR-4	Audio player for handwritten characters/words/digits	Enable Audio output reading the handwritten characters/words/digits
FR-5	A touch sensitive surface, which may be integrated with, or adjacent to, an output display.	Precise recognition even of the unclear handwritten digits/characters

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	A decent scanner is required so that the composed specimens can be examined and given as info the framework. On the off chance that scanner is not accessible then just composed characters or digits are perused by framework with mouse or advanced pen.
NFR-2	Security	In registering, security is the strategies for guaranteeing that information put away in the app can't be perused or bargained by any people without approval. Most PC efforts to establish safety include information encryption and passwords. Information encryption is the interpretation of information into a structure that is indiscernible without a disentangling system. A watchword is a mystery word or expression that gives a client access to a specific project or framework.

NFR-3	Reliability	Unwavering quality is a property of any App related part (programming, or equipment, or a system, for instance) that reliably performs as indicated by its determinations. It has for sometime been viewed as one of three related qualities that should be considered when making, purchasing, or utilizing an app item or part
NFR-4	Performance	Execution relying upon the connection, high App execution might include one or a greater amount of the accompanying: Short reaction time for a given bit of work. Execution is described by the measure of valuable work achieved by a PC framework or App contrasted with the time and assets utilized
NFR-5	Availability	In App frameworks and systems administration, accessibility is a general term that is utilized to depict the measure of time over a one-year period that the framework assets is accessible in the wake of part disappointments in the system. A framework constantly accessible with its all assets are viewed as fruitful.
NFR-6	Scalability	Most of the characters in several languages such as Hebrew, Sanskrit, braille ,etc...can be recognized with reduced latency inclusive of many features such as touch sensitive keyboard and audio output.