

Project Design Phase-II

Functional Requirements

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| Team ID | PNT2022TMID47895 |
| Project Name | A Novel Method for Handwritten Digit Recognition System |

Functional Requirements:

Following are the functional requirements of the proposed solution.

| FR No. | Sub Requirement (Story / Sub-Task) |
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| FR-1 | <p>Image Data: Handwritten digit recognition refers to a computer's capacity to identify human handwritten digits from a variety of sources, such as photographs, documents, touch screens, etc., and categorise them into ten established classifications (0-9).</p> <p>In the realm of deep learning, this has been the subject of countless studies.</p> |
| FR-2 | <p>Website: Web hosting makes the code, graphics, and other items that make up a website accessible online. A server hosts every website you've ever visited. The type of hosting determines how much space is allotted to a website on a server. Shared, dedicated, VPS, and reseller hosting are the four basic varieties.</p> |
| FR-3 | <p>Digit Classifier Model: To train a convolutional network to predict the digit from an image, use the MNIST database of handwritten digits. get the training and validation data first.</p> |
| FR-4 | <p>Cloud: The cloud offers a range of IT services, including virtual storage, networking, servers, databases, and applications. In plain English, cloud computing is described as a virtual platform that enables unlimited storage and access to your data over the internet.</p> |
| FR-5 | <p>Modified National Institute of Standards and Technology dataset: The abbreviation MNIST stands for the MNIST dataset. It is a collection of 60,000 tiny square grayscale photographs, each measuring 28 by 28, comprising handwritten single digits between 0 and 9.</p> |

