## ProjectDesignPhase-II SolutionRequirements(Functional&Non-functional)

## FunctionalRequirements:

Following are the functional requirements of the proposed solution.

FR No.	FunctionalRequirement(Epic)	SubRequirement(Story/Sub-Task)
FR-1	Theproductessentiallyconverts handwritten digits to digitalform.	Theuserisfirstaskedtodrawanumberonthecanvas, and the model that is built is then utilized to comparethedataandprovide anoutput indigitalized form.
FR-2	Recognizingthehandwritten digitanddisplaying	Recognizing the handwritten digitand displaying.
FR-3	Import the dataset file directlyto the program from acommand that will downloadthedatasetfrom itswebsite. Savethedatasetfile in the same directory as theprogram	Installingpackagesandapplications
FR-4	Build a Neural Network with anumber of nodes in the inputlayerequal tothenumberof pixels inthearrays	Nil
FR-5	ActivatingtheNeural Network	Packages –TensorFlow

## Non-functional Requirements:

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

FR No.	Non-FunctionalRequirement	Description
NFR-1	Usability	System design should be easily understood anduser-friendly to users. Furthermore, users of all skilllevelsshouldbeabletonavigateit without problems.
NFR-2	Security	Thesystemshouldautomaticallybeableto authenticate all users with their unique usernamesand password
NFR-3	Reliability	Shouldconsistently performaccordingtoits specifications.
NFR-4	Performance	Shouldreducethe delayininformationwhen hundredsofrequestsaregiven.
NFR-5	Availability	Informationisrestrictedtoeachuser withlimited access

NFR-6	Scalability	Thesystemshouldbeabletohandle10000users
		accessingthesiteatthesametime