

**Project Design Phase-I**  
**Proposed Solution Template**

Date	19 September 2022
Team ID	PNT2022TMID06900
Project Name	Project -A Novel Method for Handwritten Digit Recognition System
Maximum Marks	2 Marks

**Proposed Solution Template:**

S.No	Parameter	Description
1.	Problem Statement (Problem to be solved)	I am a person working in a bank. I'm trying to feed the account details into the database but it takes long time because the account details need to be entered manually which makes me feel frustrated.
2.	Idea / Solution description	A Novel method to recognize handwritten digits using Conventional Neural Networks (CNN) using the MNIST dataset.
3.	Novelty / Uniqueness	Accurately recognize the digits rather than recognizing all the characters like OCR.
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"><li>• Requires less time rather than entering the details manually</li><li>• More accurate as it is dedicatedly designed to recognize the digits</li><li>• Reduces the customer's waiting time</li></ul>
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"><li>• This system can be integrated with traffic surveillance cameras to recognize the vehicle's number plates for effective traffic management.</li><li>• Can be integrated with Postal system to identify and</li></ul>

		recognize the pin-code details easily.
6.	Scalability of the Solution	<ul style="list-style-type: none"> <li>• Ability to recognise digits in more noisy environments.</li> <li>• There is no limit in the number of digits it can be recognized.</li> </ul>