

## Project Planning Phase

### Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	18 October 2022
Team ID	PNT2022TMID37085
Project Name	A novel method for handwritten digit recognition system.
Maximum Marks	8 Marks

#### Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Data Collection	USN-1	As a user, I need to collect the data with different handwriting to train the model	5	High	Vignesh M Hariharan D Haripradhap P Murugan M Monish Kumar M
Sprint-1	Importing libraries	USN-2	As a user, I have to implement necessary libraries in python packages.	4	Low	Vignesh M Hariharan D Haripradhap P Murugan M Monish Kumar M
Sprint-1	Data preprocessing	USN-3	As a user, I can load the dataset, handle the missing values, scale and split the data.	10	Medium	Vignesh M Hariharan D Haripradhap P Murugan M Monish Kumar M
Sprint-2	Model building	USN-4	As a user, I will get an application with ML model which provides high accuracy of recognized handwritten digit.	6	High	Vignesh M Hariharan D Haripradhap P Murugan M Monish Kumar M

Sprint-2	Add the CNN layers	USN-5	Add input convolutional layer, max-pooling layer, flatten, hidden and output layers to the model.	5	High	Vignesh M Hariharan D Haripradhap P Murugan M Monish Kumar M
Sprint- 2	Compile the model	USN-6	As a user, compile the model for trained dataset.	2	Medium	Vignesh M Hariharan D Haripradhap P Murugan M Monish Kumar M
Sprint-2	Train and test the model	USN-7	As a user, train and test the model for the data set collected and data are validated.	5	High	Vignesh M Hariharan D Haripradhap P Murugan M Monish Kumar M
Sprint-2	Save the model	USN-8	As a user, the compiled data are saved and integrated with an android application or web application.	2	Low	Vignesh M Hariharan D Haripradhap P Murugan M Monish Kumar M
Sprint-3	Building UI application	USN-9	As a user upload the input image that contains handwritten digits.	10	Medium	Vignesh M Hariharan D Haripradhap P Murugan M Monish Kumar M
Sprint-3		USN-10	As a user, I can provide the fundamental details about the usage of application to customer.	4	Low	Vignesh M Hariharan D Haripradhap P Murugan M Monish Kumar M
		USN-11	As a user, I can see the predicted or recognized digits in the application.	5	Medium	Vignesh M Hariharan D Haripradhap P Murugan M Monish Kumar M
Sprint-4	Train the model on IBM	USN-12	As a user train the model in IBM cloud and integrate the results.	10	High	Vignesh M Hariharan D Haripradhap P Murugan M Monish Kumar M

	Cloud Deployment	USN-13	As a user, I can access the web application and make the use of the product from anywhere.	10	High	Vignesh M Hariharan D Haripradhap P Murugan M Monish Kumar M
--	------------------	--------	--	----	------	--