

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

Date	15 October 2022
Team ID	PNT2022TMID39954
Project Name	DemandEst-AI Powered Food Demand Forecaster
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	User Input	GUI allowsthe user to input area, city and meal information like category of food sub category of food price of the food are discount in particular week.
FR-2	Model	LSTM is an artificial recurrent neural network RNN architecture used in the field of deep learning.
FR-3	Prediction	The trained model has to be tested by using the test data provided by collected data set and the accuracy of the model should be above 90%
FR-4	Evaluation	Ensure that the output produced by the model is correct

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Can predict food demand with accuracy. Organization can make use of machine learning algorithm to predict changes in consumer demand as accurately as possible.
NFR-2	<b>Security</b>	It ensures security as the given input is not stored in any database.
NFR-3	<b>Reliability</b>	Can process confidential information without data leakage as the data is never stored in any database.
NFR-4	<b>Performance</b>	Improvement in fast prediction. We use RNN algorithm for accurate prediction
NFR-5	<b>Availability</b>	Available for web and mobile browsers
NFR-6	<b>Scalability</b>	Helps many individuals with low time consumption and high accuracy