

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

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| Date | 15 October 2022 |
| Team ID | PNT2022TMID22680 |
| Project Name | DemandEst-AI Powered Food DemandForecaster |
| Maximum Marks | 4 Marks |

Functional Requirements:

Following are the functional requirements of the proposed solution.

| FR No. | Functional Requirement (Epic) | Sub Requirement (Story I Sub-Task) |
|--------|-------------------------------|--|
| FR-1 | User Input | GUI allows the 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 RNNarchitecture 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 | Usability | 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 | Security | It ensures security as the given input is not stored in any database. |
| NFR-3 | Reliability | Can process confidential information without data leakage as the data is never stored in any database. |
| NFR-4 | Performance | Improvement in fast prediction. We use RNN algorithm for accurate prediction |
| NFR-5 | Availability | Available for web and mobile browsers |
| NFR-6 | Scalability | Helps many individuals with low time |

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| | | consumptionand high accuracy |
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