PREPARATION PHASE

SOLUTION REQUIREMENTS (FUNCTIONAL & NON-FUNCTIONAL)

Team ID	PNT2022TMID38332
Project Name	Project – Retail store stock inventory analytics

Ibm cognos account is created and data are visualized.

FUNCTIONAL REQUIREMENTS:

The functional requirement defines the features, behaviour and functions of the software.

The following are the functional requirements of the software:

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail Registration through LinkedIN. Registration through Facebook.
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User login	Login with username and password.
FR-4	Forget username or password	Link to reset the username and password will be send to the customer mail.
FR-5	Authentication	The customer account security can be enhanced by two step verification.
FR-6	User interface	The application navigation is smooth and the user can access the software smoothly.
FR-7	Main dashboard	The dashboard contains the page for uploading, adding and deleting the inventory data and The retailers are authorised to do this activity after verifying them and it contains the detailed report of the inventory analysis after updating the inventory.

FR-8	Management of stock	The details of the incoming and the outgoing inventory. Details about stock availability.
FR-9	Review report	The report to improve the sales. The details of the selling and dead stocks will be generated.
FR-10	Check inventory	The retailers can check the inventory on the daily basis.
FR-11	Support team	The separate team will be allocated for the retailers to give suggestion to improve the sales and to improve the profit.
FR-12	Transaction processing	The transaction of the money is done in a secured way. The user card details are stored securely.
FR-13	Billing System	Bill is automatically generated for the stock. The bill is sent to the customer and the availability of stock are updated in the database.

NON-FUNCTIONAL REQUIREMENTS:

The non-functional requirement defines performance of the software.

The following are the non-functional requirements of the software:

NFR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	It should be user friendly. The retailers and the employees should know how to access all the settings and content in the model. By knowing how to access the model the retailers and the employees can easily navigate between the software. The analysis provided should be properly understand by the retailers. It should be usable and intuitive. The model is available for both mobile and Pc. By using cloud for storage we can store huge inventory without any hindrance and data can be fetched easily. The retailers can retrieve the data easily.

NFR-2	**Security**	The inventory should be stored in a secured by protecting them from the unknown users. The retailers and employee create unique accounts with user id and password to login into the system. The retailer details are secured.
NFR-3	**Reliability**	The System must perform without failure in most of the use cases. The analysis is done in a proper way without any inaccuracy. The analysis should not contain any inaccurate data. The analysis should be sent to the retailers periodically.
NFR-4	**Performance**	The system provides the analysis quickly. The tracking of inventory should be easy. The availability of stocks, products selling details are analysed properly. The hardware and software should be compatible for performing all the task. The should not be slow. If the system is slow the retailers cannot fetch the data and we cannot perform the analysis. The speed of the software plays the main role.
NFR-5	**Availability**	Users can access the system across the world according to their needs. The system should be available for both the small and huge retailers. The system should be easily accessible. It will all the details about the inventory by analysis.
NFR-6	**Scalability**	The System must be scalable enough to support large datasets to visualize at the same time while maintaining optimal performance. The retailers can be updated regularly by the product that are highly in demand. The retailer can use this model to improve their profit. The system need to grow with the business requirements. The software should handle the increased usage. The space taken by the software

		is important.
NFR-7	**Accuracy**	The analysis and solution provided should be accurate. Inaccurate data should not be provided. The availability of stocks. Dead stocks, selling stocks and all the details about the inventory should be maintained accurately to provide the correct solution for the inventory. The details of the inventory should be analyzed regularly to get accurate data.