

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

Date	23 October 2022
Team ID	PNT2022TMID35368
Project Name	Project – University Admit Eligibility Predictor
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	A user Interface where the candidate enters his details for determining his chances of admit.	A web app presented as a dashboard where the user can enter his details like GRE, TOEFL scores, LOR, SOP ratings, CGPA, etc.
FR-2	Univariate Analysis	Graphical visualization of the different attributes - count plot, dist plot etc.
FR-3	Model Building	Compare and determine which regression model has the best performance.
FR-4	Deployment of ML model to IBM cloud.	Push the notebook and CSV files as an asset in deployment space and deploy the model in IBM Watson.
FR-5	Access the model as a scorable endpoint	Access the deployed model as an API in the Streamlit webapp using the API key generated.
FR-6	Hosting the web app in public cloud.	Host the web app in Streamlit's cloud platform.
FR-7	CI-CD pipeline	Link the repo & branch to Streamlit's cloud hosting platform to setup CI-CD pipeline.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	A logical interface is required to make the system easy to use and to speed up typical processes. The mistake rate of users

		providing their information on the checkout page must not exceed 10%.
NFR-2	Security	Authorization access scenarios and definitions, as well as student record handover processes between universities. Utilize certain cryptographic techniques. When the application is validating the user or licence, communication must be limited.
NFR-3	Reliability	Data corruption is avoided by employing backup methods and strategies. At the moment of input, all data stored for user variables will be committed to the database.
NFR-4	Performance	The availability results of the requested college should be supplied to the student in little more than two seconds, and data retrieval should be trustworthy because each student will be granted a maximum of 10 minutes, accessing the database should be done at a reasonable speed.
NFR-5	Availability	The system should be available at all times, allowing the user easy access. If the hardware or database fails, a substitute page will be displayed, and the database should be obtained from the data folder.
NFR-6	Scalability	Determines the highest workloads under which the system will still run satisfactorily. Deals with the measurement of the system's reaction time under varied load circumstances.