**PROJECT DESIGN PHASE-II**

**SOLUTION REQUIREMENTS (FUNCTIONAL & NON FUNCTIONAL)**

**FUNCTIONAL REQUIREMENTS**

Following are the functional requirements of proposed solution

| FR .No. | Functional requirement | Description |
|---------|------------------------|-------------|
| FR-1 | External interface | **The supported set of interactions and behavioural properties of a (provided or required) service. The behavioural description is more abstract than the one of component-interfaces (e.g., it does not include information on the local state)** |
| FR-2 | Authentication | Authentication technology provides access control for systems by checking to see if a user's credentials match the credentials in a database of authorized users or in a data authentication server. |
| FR-3 | Authorization | Authorization is the process of granting someone to do something. It means it a way to check if the user has permission to use a resource or not. It defines that what data and information one user can access. |
| FR-4 | Business rules | A business rule is, at the most basic level,a specific directive that constraint or defines the activities of business. |

**NON - FUNCTIONAL REQUIREMENTS**

Following are non functional requirements of proposed solution.

| NFR. No | Non-functional requirements | Description |
|---------|------------------------------|-------------|
| NFR-1 | Usability | Usability is the degree of ease with which products such as software and web applications can be used to achieve required goals effectively and efficiently. |
| NFR-2 | Security | Machine learning can be applied in various ways in security, for instance,in malware analysis to make prediction and clustering events. |
| NFR-3 | Reliability | Reliability is application of data analytics include ml to predict when asset will fail so that it can be serviced or replaced before failing. |
| NFR-4 | Performance | Model performance is an assessment of the model's ability to perform a task accurately not only with training data but also in real-time with runtime data when the model is actually deployed through a website or an app. |