

## Solution Requirements (Functional & Non-functional)

### Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story/Sub-Task)
FR-1	User Registration	Registration through Form
FR-2	User Confirmation	Confirmation via Email
FR-3	User Authentication	Authenticate the user's attempt to login using the database
FR-4	Retention analysis	Employee attrition analysis by sentiment, work environment, daily contribution etc.
FR-5	Employee management	Validating and managing the registered employee details.
FR-6	Progress management	Add the progress of each employee to the company.
FR-7	Predict button	<p>The predict route is used for prediction and it contains all the codes which are used for predicting our results. Firstly, inside launch function we are having the following things:</p> <ul style="list-style-type: none"><li>• Getting our input and storing it.</li><li>• Select the necessary attributes for the prediction.</li><li>• Creating model.</li><li>• Predicting our results.</li><li>• Showcase the results with the help of dashboard.</li><li>• Finally run the application.</li></ul>

### Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	This software shall be easy to use for all users with minimal instructions. 100% of the languages on the graphical user interface (GUI) shall be intuitive and understandable by non-technical users.
NFR-2	<b>Security</b>	The user of the system should be provided the surety that their account details are secure. The system will provide security against cross site request forgery.

NFR-3	<b>Reliability</b>	The software shall be operable in all conditions. The system must be less prone to errors.
NFR-4	<b>Performance</b>	The performance of the system must assist the system's quality.
NFR-5	<b>Extensibility</b>	The software shall be extensible to support future developments and add-ons.
NFR-6	<b>Portability</b>	The software shall be 100% portable to all operating platforms. Therefore, this software should not depend on the different operating systems.
NFR-7	<b>Scalability</b>	The system must be able to handle an increase in workload without performance degradation.