Project Design Phase – II

Solution Requirements (Functional & Non-Functional)

**Date:** 3/11/2022

**Project Name:** Classification of Arrhythmia using Deep Learning with 2-D ECG Image

**Non-Function Requirements:**

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| --- | --- | --- |
| **NFR No.** | **Non-Functional Requirement** | **Sub Requirement (Story/Sub-Task)** |
| NFR-I | Reliability | Probability of successful operations in each environment for a certain period of time |
| NFR-2 | Scalability | The website's ability to accommodate expansion |
| NFR-3 | Security | Authentication and Authorization of the website |
| NFR-4 | Usability | efficient and overall user satisfaction with the diagnosis service provided by the website |
| NFR-5 | Availability | All users should be able to access the service easily. |

**Function Requirements:**

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| --- | --- | --- |
| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story/Sub-Task)** |
| FR-I | User Registration | registration on a website utilising an email address for confirmation |
| FR-2 | User Confirmation | OTP verification on the webpage |
| FR-3 | User Data | uploading the ECG image used to diagnose arrhythmias |
| FR-4 | User Diagnosis Results (Single Input) | The website displays the results of the arrhythmia prediction and classification. |
| FR-5 | User Diagnosis Results (Multiple Input) | The Arrhythmia Prediction & Classification results are emailed to the registered email. |