**Project Design Phase-II**

**Data Flow Diagram &User Stories**

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| Date | **22 October 2022** |
| Team ID | **PNT2022TMID43552** |
| Project Name | **Deep learning fundus analysis for early detection of diabetic retinopathy** |
| Maximum Marks | **4 Marks** |

**Data Flow Diagrams:**

TRAIN A DATA

PREDICTION

IMAGE OUTPUT

DETECTOR

**IMAGE PREPROCESING**

ALGORITHM

(DL)

MODEL

UI

INPUT

TEST A DATA

**Data Flow Diagram(level 0):**

START

FUNDUS IMAGE PROCESSING

If

No - DR not found

Yes - DR is found

Unpredictable

END

**User Stories:**List all the user stories for the product:

| **User Type** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Acceptance criteria** | **Priority** | **Release** |
| --- | --- | --- | --- | --- | --- | --- |
| Customer (Mobile user) | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | I can access my account / dashboard | High | Sprint-1 |
|  |  | USN-2 | As a user, I will receive confirmation email once I have registered for the application | I will receive confirmation email & click confirm | High | Sprint-1 |
|  |  | USN-3 | As a user, I can register for the application through google . | I can register & access the dashboard using google Login | Low | Sprint-2 |
|  |  | USN-4 | As a user, I can register for the application through Gmail | I can register & access the dashboard with Gmail | Medium | Sprint-1 |
|  | Login | USN-5 | As a user, I can log into the application by entering email & password | I can access easily to go dashboard | High | Sprint-1 |
|  | Interface | USN-6 | As a user, the interface should be user friendly manner | I can access the application easily | High | Sprint-1 |
| Customer (Web user) | Dashboard | WUSN-1 | As a Web user, I can register & access the specific information (diabetic level, patient age, gender ,.etc) | Monitoring the diabetes level | High | Sprint-1 |
| Customer Care Executive | Overview | CCE-1 | As a customer , I can view the data in graphical representation | The level of diabetes as well as the DR are analysed | High | Sprint-1 |
|  | Database analysis | CCE-2 | As a operator the operator is provided with the required database of the image. | I can detect the Stage of DR. | High | Sprint-1 |
|  | Pre Image analysis | CCE-3 | As a operator the fundus image is analysed by pre image processing from database. | I can easily monitor the DR at early stages. | Medium | Sprint-1 |
| Administrator | Image | ADMIN-1 | As an Administrator, who can handle the system update & take care of the application | Admin should monitor the system properly | High | Sprint-2 |