

# PROJECT FLOW

TEAM ID	PNT2022TMID33027
PROJECT NAME	Deep Learning Fundus Image Analysis for Early Detection of Diabetic Retinopathy

## Project Flow

- The user interacts with the UI (User Interface) to choose the image.
- The chosen image analyzed by the model which is integrated with flask application.
- The Xception Model analyzes the image, then the prediction is showcased on the Flask UI.

To accomplish this, we have to complete all the activities and tasks listed below

- Data Collection.
  - Create a Train and Test path.
- Data Pre-processing.
  - Import the required library
  - Configure ImageDataGenerator class
  - Apply ImageDataGenerator functionality to Trainset and Testset
- Model Building
  - Pre-trained CNN model as a Feature Extractor
  - Adding Dense Layer
  - Configure the Learning Process
  - Train the model
  - Save the Model
  - Test the model
- Cloudant DB
  - Register & Login to IBM Cloud
  - Create Service Instance
  - Creating Service Credentials
  - Launch Cloudant DB
  - Create Database
- Application Building
  - Create an HTML file
  - Build Python Code