

# Project Design Phase-1

## Solution Architecture

Date	12 October 2022
Team ID	PNT2022TMID31762
Project name	Early Detection of Chronic Kidney Disease using Machine Learning
Maximum Marks	4 Marks

### Solution Architecture :

The solution Architecture consist of the following elements/process for creation of accurate machine learning model they are as follows:

- **Dataset** - The need of data is important to analyze the features for prediction
- **Preprocessing Techniques** - To handle missing data as well as standardizing the data for the model to process
- **Feature Selection** - Splitting the data into independent and dependent variables and dropping unwanted features using dimensionality reduction or dropping categorical variable with no importance
- **Modelcreation and evaluation** - model is created with various ml algorithm aiming for greater accuracy and evaluation is done repeatedly to improve accuracy
- **Deploying model** - model is deployed for the access of the service over the internet by customer
- **User/customer** - main actors for accessing the service

# Solution Architecture Diagram:

