**PROJECT DESIGN PHASE I**

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| DATE | 23 September 2022 |
| TEAM ID | PNT2022TMID49675 |
| PROJECT NAME | Early Detection Of Chronic Kidney Disease Using Machine Learning |
| MAXIMUM MARKS | 2 |

**PROPOSED SOLUTION TEMPLATE**

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| **S.NO** | **PARAMETER** | **DESCRIPTION** |
| 1. | Problem Statement | * Chronic kidney Disease can be cured, if treated in the   early stages here we are going to predict whether the  patient have chronic kidney disease or not, in more  accurate and faster way by measure the severity of the  problem and we make use of such information to build a  machine learning model that predicts Chronic Kidney  Disease that based on certain diagnostic measurements  like Blood Pressure (Bp), Albumin(Al) levels. early  prediction and proper treatments can possibly stop or  slow the progression of this disease to end stage. |
| 2. | Idea | **Chronic kidney Disease can be cured, if treated in the early stages**  The main aim of this project is to predict whether the patient have chronic kidney disease or not, in more accurate and faster way based on certain diagnostic measurements like Blood Pressure (Bp), Albumin(Al)   * An **albumin blood test** checks your kidney function. Albumin is protein in your blood plasma. Low albumin levels might be the result of kidney disease, , inflammation or infections. High albumin levels are usually the result of dehydration or severe diarrhea.   You may have this test if your healthcare provider suspects that you have liver or kidney disease. Symptoms of these diseases include:  Vomiting and diarrhea  Dark yellow urine or gray, pale stools  Pain below the right ribs, including the stomach area   * **High blood** **pressure** can make your kidneys worse   Ways to Lower Blood Pressure · Lose Weight · Eat Healthy · Get Regular Exercise · Reduce Your Sodium Intake · Reduce Your Stress · Drink Less Alcohol.  Yoga, which commonly involves breathing control, posture, and meditation techniques, can also be effective in reducing stress and blood pressure  Common way to Prevention - Chronic kidney disease: Manage underlying conditions · Stop smoking · Healthy diet · Manage alcohol intake · Exercise regularly ·Lose weight if you are overweight.   * Get active. ... * Quit smoking. * Getting a checkup? ... * Take medications as directed. * Keep your blood pressure below 140/90, or ask your doctor what the best blood pressure target is for you. * If you have diabetes, stay in your target blood sugar range as much as possible. |
| 3. | Novelty | * The Novelty of this project is to predict whether the patient have chronic kidney disease or not, in more accurate and faster way based on certain diagnostic measurements like Blood Pressure (Bp), Albumin(Al) |
| 4. | Social impact | * The main aim of this application is early prediction and proper treatments can possibly stop or slow the progression of this disease to end stage. |
| 5. | Business Model | * Can generate revenue through direct customers. * Can collaborate with health care sector and generate revenue from their customers. |
| 6. | Scalability of solution | * In Existing system the severe of kidney disease measured by common symptoms, such as blood in your pee (urine),   an increased need to pee particularly at night,  difficulty sleeping (insomnia),itchy skin so its takes time to find out the disease.But in our **Proposed system** to check whether the patient have chronic kidney disease or not, in **more accurate and faster way** based on certain diagnostic measurements like Blood Pressure (Bp), Albumin(Al) .This helps kidney patients to cure in early stages to take prescribed activities and foods . This method is very helpful for poor people. |

Don't take a risk but a test to protect your kidneys.