Define

into

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# 1. CUSTOMER SEGMENT(S)



Lisa is a 55-year-old diabetic patient, and has been observing many unusual symptoms recently like metallic-taste, high blood-pressure. She also has a family history of chronic kidney disease and wants to know if she is hereditarily affected by CKD.

## 6. CUSTOMER CONSTRAINTS



People are always skeptical about being diagnosed fearing it might cost them a fortune to get treated, as it would involve a lot of tests and medical procedures to cure the disease, so people consider better not to be diagnosed. People with less awareness get diagnosed with CKD only when the symptoms get worse and becomes more difficult to treat and is more deadly.

## 5. AVAILABLE SOLUTIONS



Lisa can consult a doctor, stating that she has been facing some unusual symptoms recently, following the prescription she could take tests to discover if she has CKD or not.

# 2. JOBS-TO-BE-DONE / PROBLEMS



CKD can be fatal to health and a person has to change their lifestyle and can face unprecedented issues like

- Anemia
- Increased chances of stroke
- Decreased immune response
- Loss of appetite
- Depression
- Retention of fluids

# 9. PROBLEM ROOT CAUSE



Common causes of CKD include diabetes, high blood pressure, obesity etc. Though Lisa is already diabetic, she followed a routine of unhealthy lifestyle like smoking, sedentary life, and having a sweet tooth. All these habits, could have played a major role, given that she has a family history of CKD.

## 7. BEHAVIOUR



Lisa has been trying to change her habits and include healthier foods, and develop a healthier lifestyle like going for workouts etc. She has also been going to a rehabilitation center to get rid of her smoking habits.



Lisa has noticed her change in her appearance which has caused her to develop insecurities. She has also lost her appetite, and developed insomnia.

# 3. TRIGGERS





8. CHANNELS of BEHAVIOUR



# 8.1 ONLINE

Lisa browsed online about the unusual symptoms and developed her suspicions for CKD and tried to alleviate her ailments using home treatments.

## 8.2 OFFLINE

Lisa attends awareness programs to find out more about CKD and tries to conclude if she is affected, she later approaches a doctor to confirm her suspicions of CKD.

### 4. EMOTIONS: BEFORE / AFTER



LIsa was incompetent to decide if she has been affected by the disease and this caused her to feel distressed and uneasy.

# AFTER:

Lisa, after she has been identified has a better understanding of what the disease is and feels more secure about the decisions, she should take to face CKD.

The proposed solution is to identify the chronic kidney disease using machine learning techniques, in its earlier stages to facilitate timely treatment which would reduce the cost of the treatment significantly and also the fatality. In reality, it would be feasible as only a prescribed number of tests would be taken and based on it the disease can be predicted.