Early Detection Of Chronic Kidney Disease Using Machine Learning

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Scenario:

Browsing, giving symptoms and getting predicted results

Steps

What does the person (or group) typically experience?

Interactions

What interactions do they have at each step along the way?

- **People:** Who do they see or talk to?
- **Places:** Where are they?
- **Things:** What digital touchpoints or physical objects would they use?

Goals & motivations

At each step, what is a person's primary goal or motivation? ("Help me..." or "Help me avoid...")

Positive moments

What steps does a typical person find enjoyable, productive, fun, motivating, delightful, or exciting?

Negative moments

What steps does a typical person find frustrating, confusing, angering, costly, or time-consuming?

Entice

How does someone initially become aware of this process?

- Through websites and advertisement
- Through media and friends
- Through awareness programs
- While searching their symptoms in the web and advertisement based on their search
- Using social media and friends recommendation(Pre-existing users)
- By conducting awareness programs and issuing pamphlets
- How to access available feature?
- How to use the software?
- Will the results be displayed?
- Will the results be displayed?
- Will my data get enough security?
- Helps to use the application efficiently
- Helps me to check correctness of the software
- Travel cost will be reduced for visiting hospitals
- Knowing about the website through reviews
- Internet Connectivity Issues to access the application
- Feeling frustrated if not received appointment

Enter

What do people experience as they begin the process?

- Introduction of the app
- Registration/login
- Customer Health Details
- Start introduction of the CKD software
- CKD software asks for name, age, email and phone number
- Customer need to enter their credentials
- People become more clear process of the CKD
- Check Various modes of payment
- Ask for discount
- To successfully register on the website
- Enter the correct credentials
- Some knowledge about the disease
- Satisfied
- Detailed information about the disease
- People experience a fear of taking this step

Engage

In the core moments in the process, what happens?

- Filling relevant details
- Perform disease prediction
- Analyze the prediction model
- The user is to fill the information required associated with it
- On clicking the predict button, it will predict the CKD
- User will get positive or negative result based on consult the doctor treatment
- Start interactions with patients
- Speak about the cost effectiveness of the test
- Doing treatment according to the stages of disease
- Enter the appropriate details
- To get the accurate prediction
- Productive
- Creatuve
- Trepidation about the checkup for predicting CKD

Exit

What do people typically experience as the process finishes?

- Result will be notified to patient
- Writing & Summary review
- They can be cured with proper treatment
- Users can say some queries about the website
- User will be satisfied
- Download the diagnosis result from the website
- To get the results of the prediction model
- Getting information to consult the doctor
- Transparency of the diagnostic process
- People describe leaving a review as tedious process

Extend

What happens after the experience is over?

- Follow doctor's description
- Personalized recommendations
- Completes the review section of the software
- Drinking more water after the recovery
- To consult a doctor and get the test results
- To get a treatments
- Proper guidance on how to deal with the disease
- Low review rates

Areas of opportunity

How might we make each step better? What ideas do we have? What have others suggested?

User friendly

Accessible at any period of time

Making it faster access

Improvise the current mode for better future prediction

The user should be able to get treated once with prior registration

The proposed solution having reasonable time complexity

Maintaining the user's privacy

Regular tracking by the application on treatment and progress