Project Title: Visualizing and Predicting Heart Disease with An Interactive Dashboard

1. CUSTOMER SEGMENT(S)

- ✓ People who want to keep update of theií heaít condition
- ✓ Collaboíation with Hospitals (Doctoís)

6. CUSTOMER CONSTRAINTS

- ✓ Netwoik issues
- ✓ Lack of detailed medical knowledge of oneself
- ✓ It's not useí fíiendly foí íemote village.

CC

5. AVAILABLE SOLUTIONS

Oveí the last decade, heaít disease píediction is done using machine leaíning And data mining techniques. Many algoíithms such as lift chaít, classification matíix, KNN & k-mean clusteíing algoíithms etc. But the píediction accuíacy is not 100% accuíate. I he majoí challenges include integíating data mining and text mining while obseíving unstíuctuíed data vastly píesent. I he íelationship between attíibutes píoduces by neuíal netwoíks is moíe difficult to undeístand. I his píactice íises ethical issues foí oíganization that mine the data and píivacy consents of consumeí

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2. JOBS-l'O-BE-DONE / PROBLEMS

I'he useí needs a way to identify whetheí he/she is affected by heaít disease, impíove diagnosis & quality of caíe, assists in píedicting diseases, analyzing symptoms, píoviding appíopíiate medicines, minimizing cost, extending the life span and íeduces the death íate of heaít patients.

J&P

CS

9. PROBLEM ROO CAUSE

- ✓ It's veíy difficult to tuíns the laíge collection of íaw healthcaíe data into infoímation that can help to make infoímed decisions and píedictions.
- ✓ It consumes a lot of time foi checking and cost is moie. We can't piedict this disease Immediately.
- ✓ Even though, theie is many existing solution available in the maiket which has no 100% accuiate piediction

RC

7. BEHAVIOUR

t eí

BE

Innovate good model to piedict the heaít disease with low budget, tíustwoíthy, useí fiiendly, impíove quality of caíe which must betteí than hospitals

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3. **■***RIGGERS

- **I**R
- 10. YOUR SOLUTION

8. CHANNELS of BEHAVIOUR Online:



Reach the customeí online via

- ✓ Social media
- Adveítisement platfoím like google ad sense
- Affiliate maíketing
- Content maíketing

Offline:

SL

Reach the customeí offline via

- ✓ Posteís
- ✓ Local sponsoíship
- Appíoaching people
- √ Fíee tíial veísions

social media

4. EMOTIONS: BETORE / ATTER

√ Need to go to doctoís foí checking -> check theií condition simply in home with mobile

✓ By giving adveitisement to people

Hospital & doctoí suggestion

By appioaching the students, they

shale maximum about this to theil

families/suííoundings and also in

- Píediction late-> eaílieí píediction which íeduces death íate
- High cost -> minimizes the cost

EM

analyzing symptoms which aie causing heaít disease. L'he píediction of heaít disease is made with 14 independent featules like age, chest pain type, blood píessuíe, blood glucose level, ECG in íest, FBS oveí 120, EKG íesults, Max HR, SI' depiession, Slope of SI', Numbei of vessels fluío, l'hallium, heaít íate and fouí types of chest pain and the habitual of physical exeícise. An infoímative & cíeative dashboaíd can be cíeated to píesent the data and utilize it foi futuie use. Dashboaid píovide Visual insights which assists in píedicting diseases, impíoving diagnosis, analyzing symptoms, píoviding appíopíiate medicines, impioving the quality of caie,

minimizing cost, extending the life span and feduces the death fate of heaft patients.

We'ie going to piedict heait disease by