
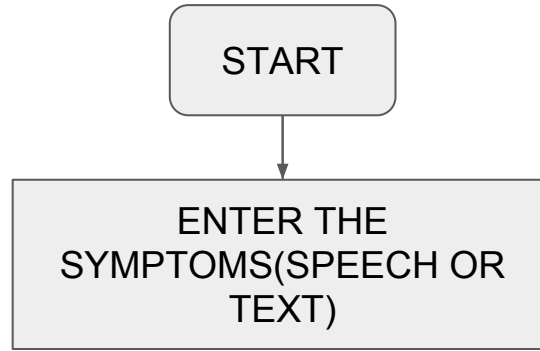
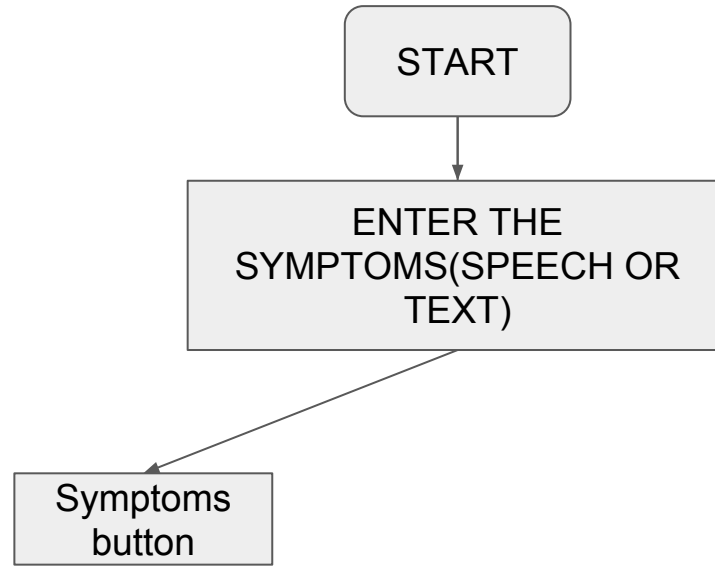


Interactive Android Application for First-Hand Medical Assistance

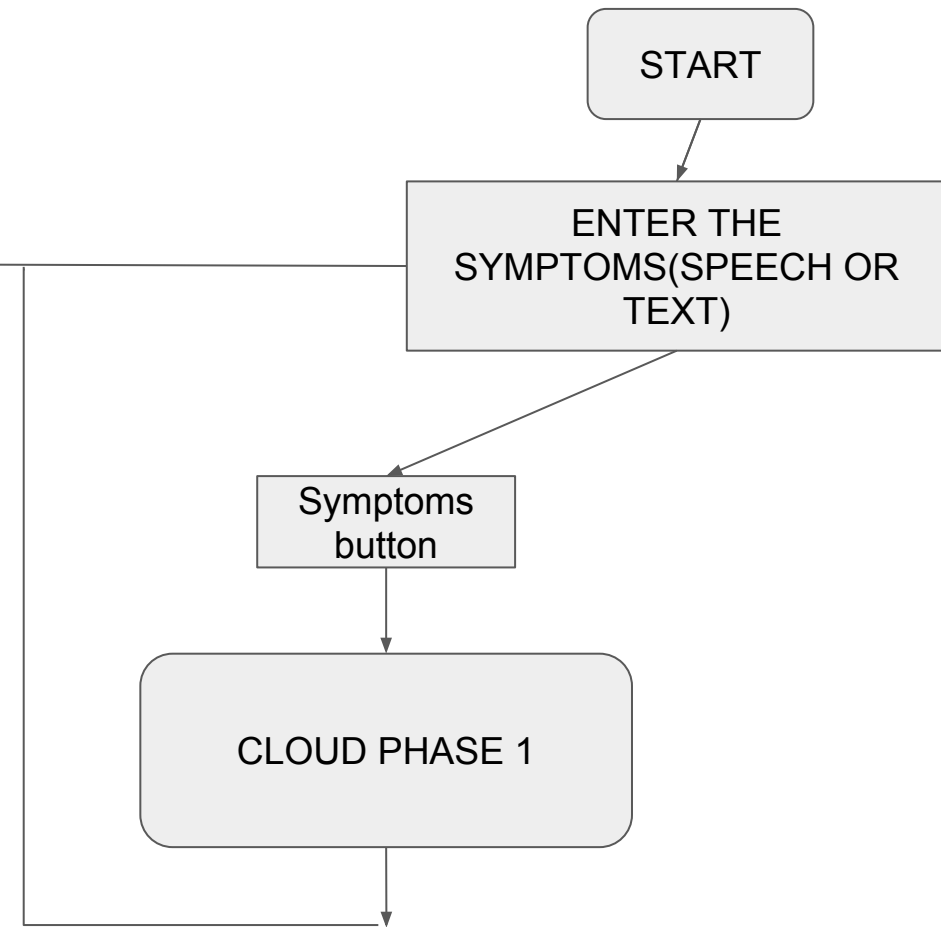




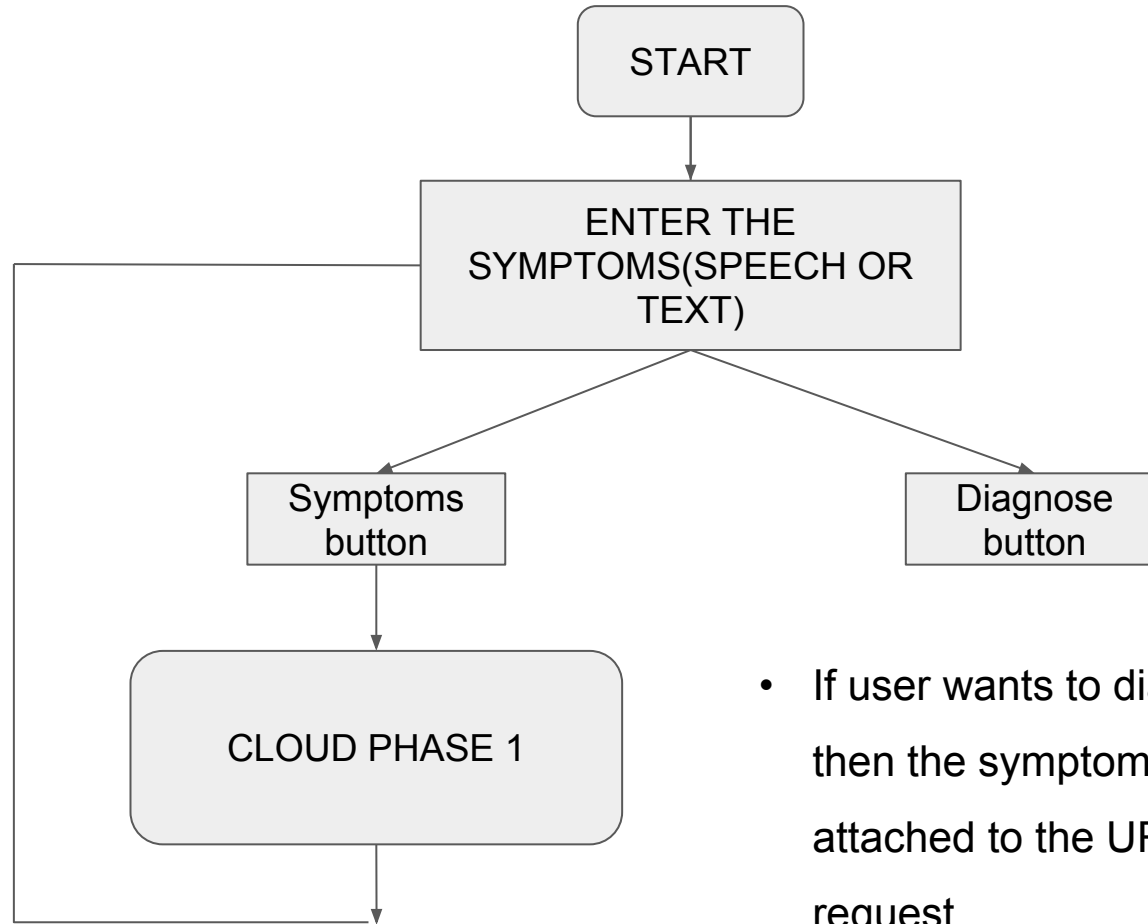
- Speech to text is done by using google API
- Provision to select the language as Hindi.
- Anything that user wants to explain can be included here



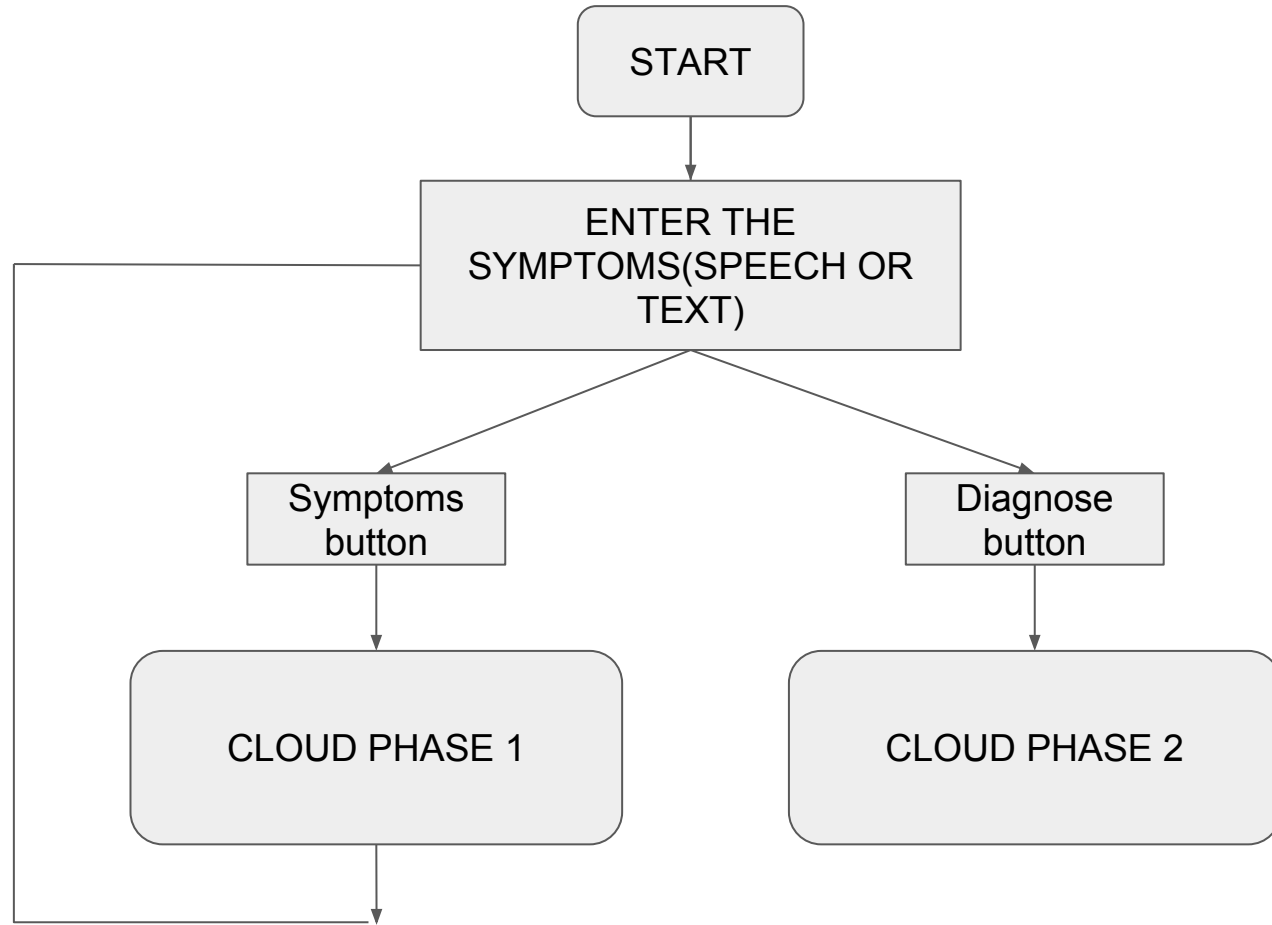
- If user still want to say something he should press symptoms button
- It stores the current symptoms and again request for symptoms

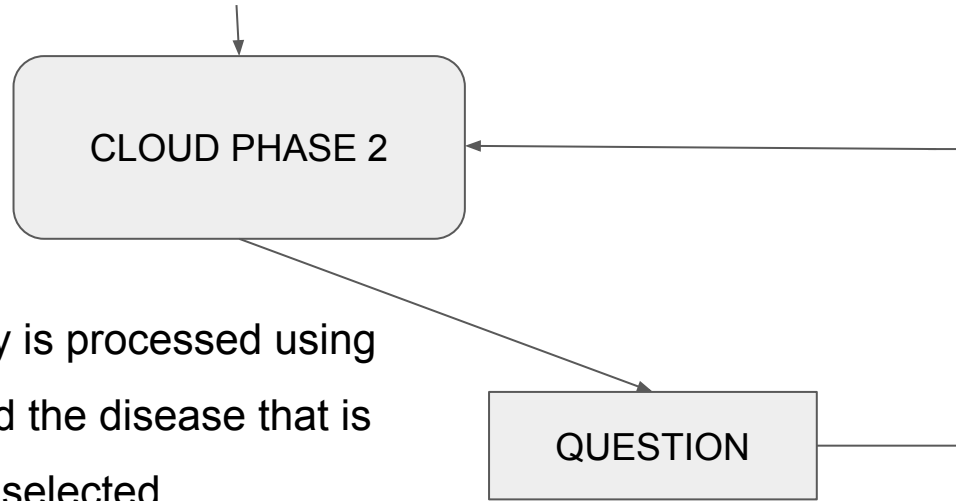


- The symptoms that are stored are formatted accordingly and concatenated to URL and HTTP request is sent.
- In cloud the HTTP request is pruned and only symptoms are processed using nltk to develop symptom array
- The symptom array is returned to device through HTTP response
- Each time if we input symptoms symptom array is updated

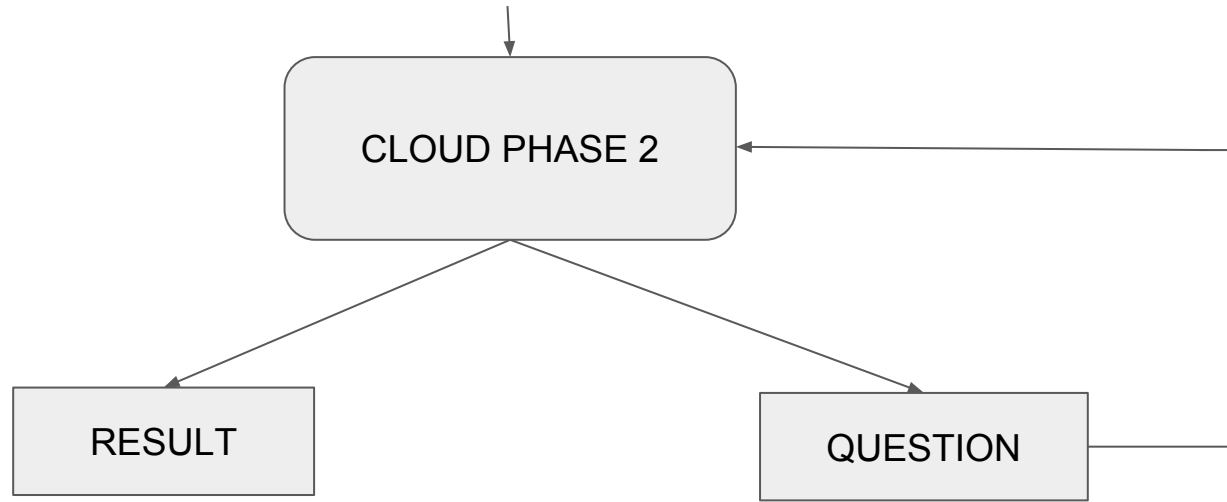


- If user wants to diagnose the symptoms then the symptom array that is formed is attached to the URL and sent as HTTP request.

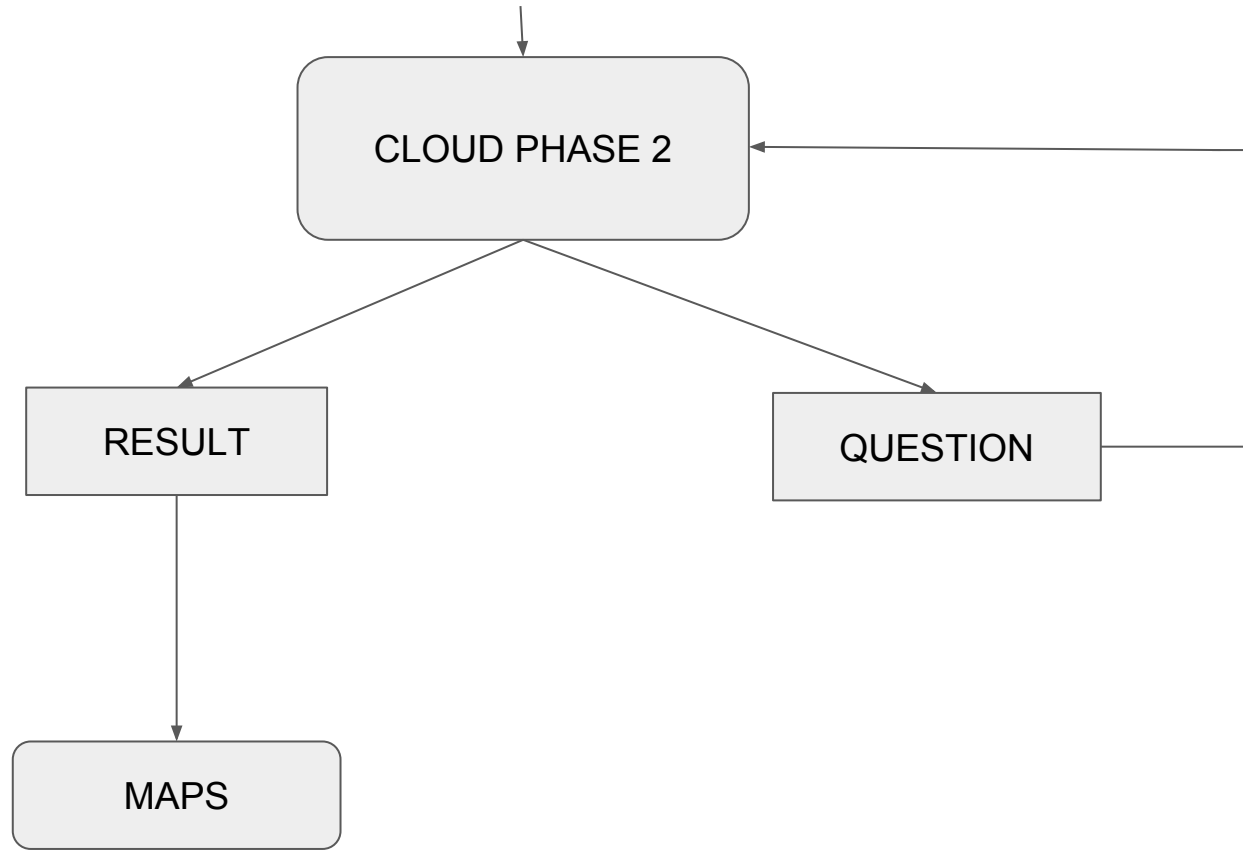




- Now the symptom array is processed using naïve bias classifier and the disease that is closest to symptoms is selected.
- Symptom of the disease that has not been verified is asked as question in HTTP response.
- In device with respect to the answer obtained Symptom array is updated and HTTP request is sent
- The following process takes place in a loop.



- The loop is continued till the classifier concludes with disease
- Then the result is displayed



```
"GET /webapp/first?fever_pain HTTP/1.1" 200 41 "-" "Mozilla/5.0 (Windows NT 10  
243"
```

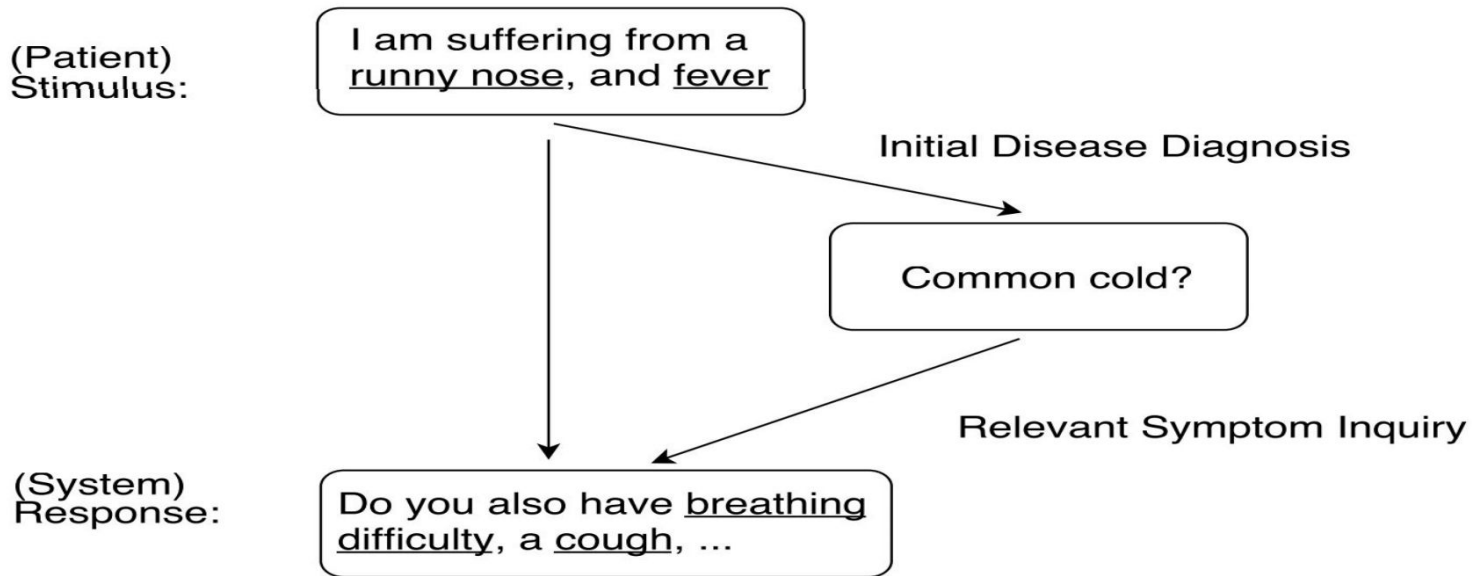
```
"GET /webapp/second?0,0,0,0,0,0,0,0,0,0,0,0,0,0,1,0,0,0,0,0 HTTP/1.1" 200 45 "-"
```

```
urlpatterns = [  
    url(r'^first', views.first_try, name = 'first_try'),  
    url(r'^second', views.second_try, name = 'second_try'),  
    url(r'^history', views.disease_history, name='disease_history')]
```

Intelligence?

Our core problem is Relevant Symptom Generation, i.e. , given a stimulus and an initial disease hypothesis, how to identify the most relevant and consistent symptoms to further inquire the patient?

LSTM Recurrent Neural Networks



THANK YOU !

Submitted By:

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