

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

FACULTY OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF Data Science And Business Systems

AI HEALTHCARE BOT SYSTEM: Improving Healthcare Access in Rural Areas

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Abstract

- The AI Healthcare Bot System aims to address the healthcare accessibility challenges prevalent in rural areas of India.
- By leveraging artificial intelligence (AI) technology, the system provides personalized medical advice, facilitates doctor appointments, and offers location-based assistance for finding nearby healthcare facilities.
- This presentation provides an overview of the project, including its objectives, methodology, and potential impact on improving healthcare access and outcomes in rural communities.

Introduction

- The project titled "**AI HEALTHCARE BOT SYSTEM: Improving Healthcare Access in Rural Areas**". The introduction sets the context for the AI Healthcare Bot System, highlighting the significant challenges faced by rural communities in accessing quality healthcare services
- Enhancing healthcare accessibility and quality in rural areas through AI technology..
- Introducing the AI Healthcare Bot System, a virtual assistant for medical support..
- It emphasizes the need for innovative solutions to bridge the gap between rural populations and healthcare resources, leading to the development of the AI Healthcare Bot System.
- Improved access, cost-efficiency, timely intervention, scalability, empowerment..

Motivation

- The motivation behind the AI Healthcare Bot System stems from the pressing need to address healthcare disparities in rural areas.
- Healthcare disparities in rural areas contribute to poorer health outcomes, increased healthcare costs, and reduced quality of life for residents.
- Factors such as limited access to medical information, difficulty in scheduling doctor appointments, and long distances to healthcare facilities underscore the importance of developing accessible and affordable healthcare solutions for rural communities.
- Addressing these disparities is essential for promoting health equity and ensuring that all individuals have access to the care they need, regardless of where they live.

Literature Review

YEAR	TITLE	METHOD	AURTHORS	LIMITATIONS
[2024]	“Generative AI for Transformative Healthcare: A Comprehensive Study of Emerging Models, Applications, Case Studies, and Limitations”	Dataset preparation, feature extraction, CNN architecture, training and testing, and performance evaluation.	SIVA SAI , AANCHAL GAUR2 , REVANT SAI , VINAY CHAMOLA , MOHSEN GUIZANI , AND JOEL J. P. C. RODRIGUES	Limited dataset, Dependency on lighting conditions, a limited number of bank notes, limited computational resources, and single image recognition.
[2024]	“Ethical Framework for Harnessing the Power of AI in Healthcare and Beyond”	Dataset preparation, feature extraction, ensemble classifiers, training and testing, and performance evaluation.	SIDRA NASIR, RIZWAN AHMED KHAN , AND SAMITA BAI	Limited dataset, dependency on image quality, limited computational resources, limited robustness to occlusion, and limited flexibility.
[2024]	“Tracking ChatGPT Research: Insights From the Literature and the Web”	Data augmentation, deep learning model, real-time implementation, and performance evaluation.	OMAR MUBIN , FADY ALNAJJAR , ZOUHEIR TRABELSI , LUQMAN ALI , MEDHA MOHAN AMBALI PARAMBIL , AND ZHAO ZOU	Limited dataset, performance under different conditions, lack of explanation for misclassifications, recognition of damaged banknotes, and limited hardware
[2019]	“Effective Heart Disease Prediction Using Hybrid Machine Learning Techniques ”	Enhanced robust local ternary patterns, multi-feature fusion, classification model, and dataset	SENTHILKUMAR MOHAN , CHANDRASEGAR THIRUMALAI , AND GAUTAM SRIVASTAV	Limited dataset, feature extraction time, sensitivity to image quality, limited applicability.

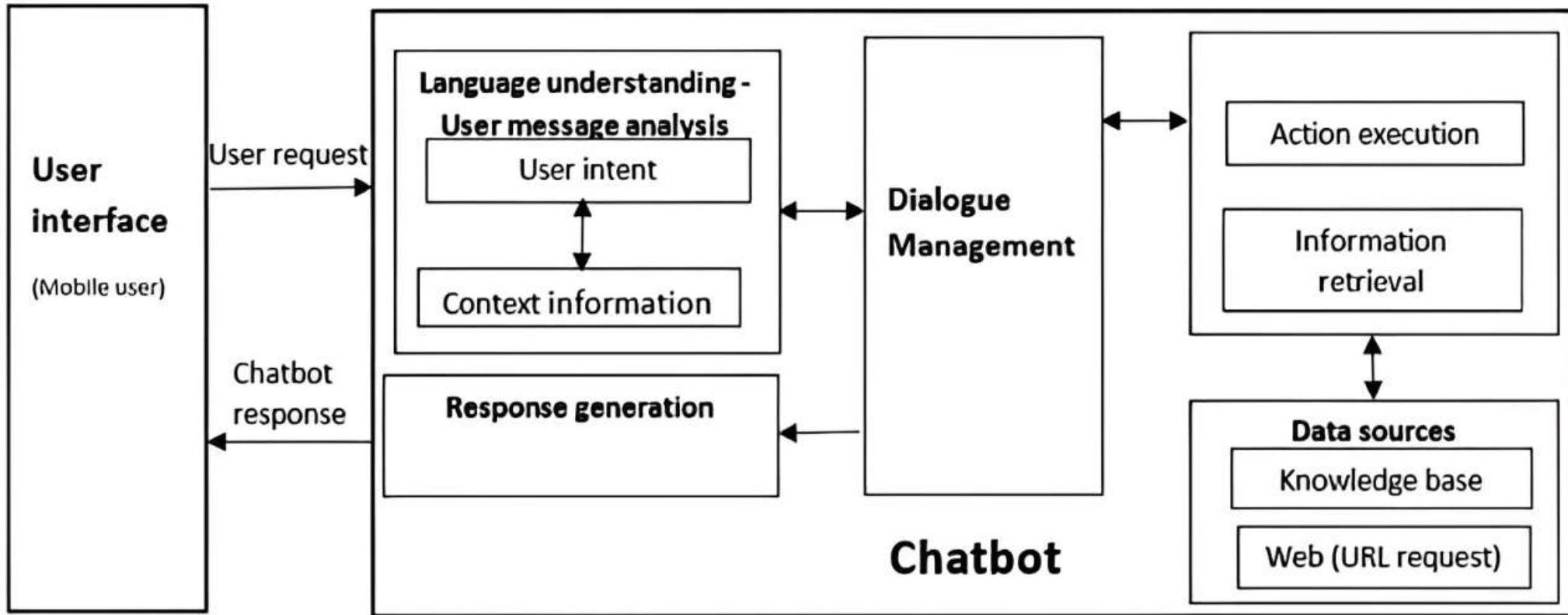
Challenges and limitations in existing system

- This slide discusses the challenges and limitations faced by current healthcare systems in rural areas, such as limited access to medical resources, Language barrier and lack of internet connectivity.
- Many rural areas suffer from inadequate internet infrastructure, hindering access to online healthcare services like the AI Healthcare Bot System, Poor internet connectivity can lead to slow response times, dropped connections, and overall user frustration, Addressing this challenge may require investment in expanding broadband infrastructure or alternative communication technologies.
- Rural areas often face shortages of healthcare professionals, limiting the availability of remote consultations through the system.
- Strategies to overcome this challenge may include recruiting and incentivizing healthcare professionals to serve rural communities or implementing telemedicine training programs.

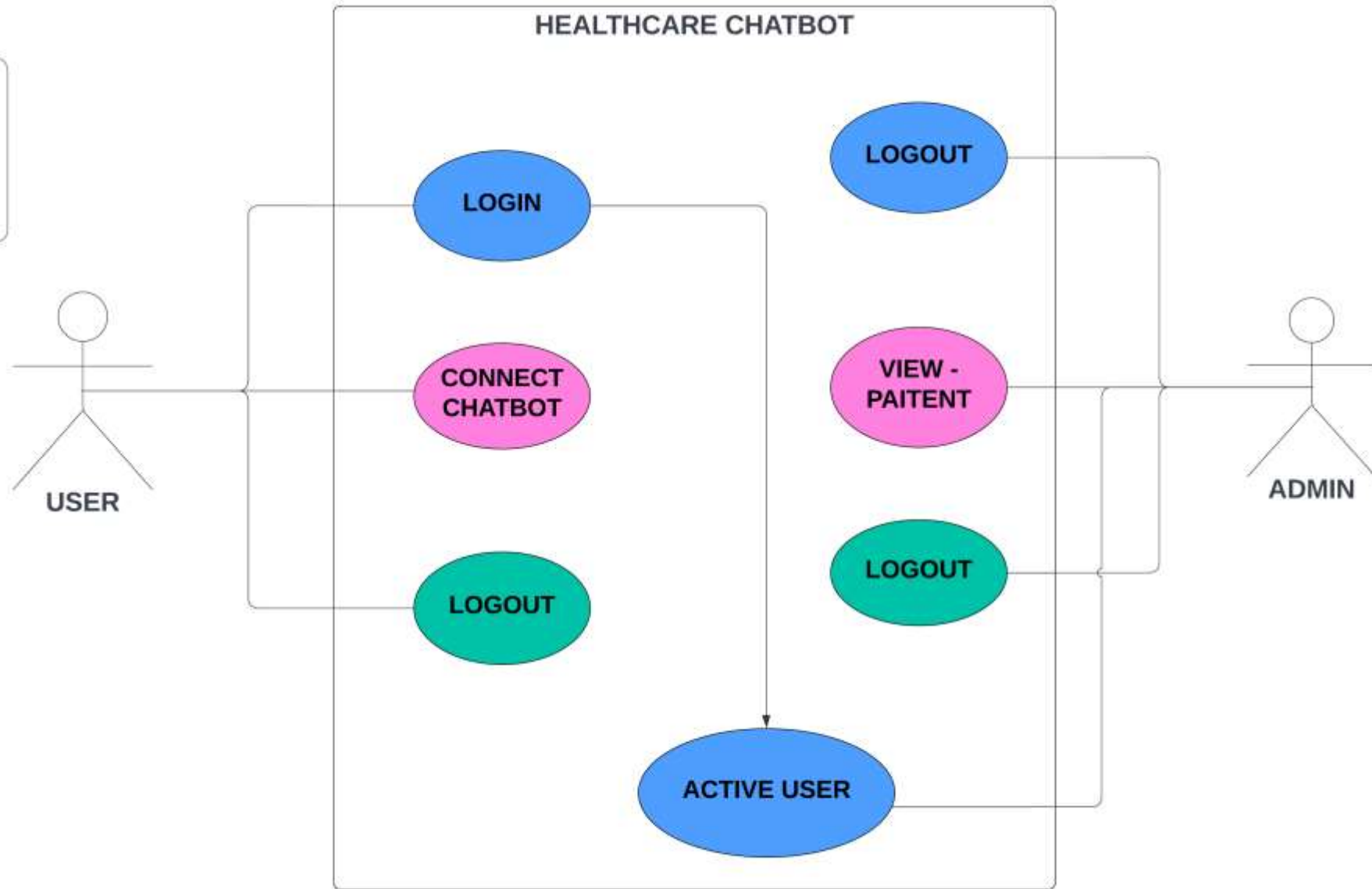
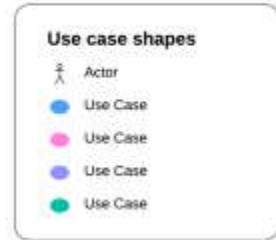
Objectives of the project

- The primary objective of the AI Healthcare Bot System is to mitigate healthcare disparities in rural areas by providing accessible and affordable healthcare solutions.
- The system aims to empower rural residents with readily available medical information and guidance, enabling them to make informed decisions about their health..
- To develop a user-friendly interface to Operate the System.

Architecture Diagram



Use Case



Innovation Idea of the project

- The innovative idea behind the AI Healthcare Bot System lies in its use of AI algorithms to provide personalized medical advice and location-based assistance.
- By leveraging AI technology, the system offers tailored healthcare solutions to individual users, thereby improving access and outcomes.
- This predictive healthcare analytics feature aims to revolutionize preventive care and early intervention, ultimately improving health outcomes and reducing healthcare costs..



```
EXPLORER  ...  Release Notes: 1.84.0  views.py paitent X  views.py Aichatbot

PROJECT
├── Aichatbot
│   ├── __pycache__
│   │   ├── __init__.cpython-37...
│   │   ├── __init__.cpython-31...
│   │   ├── settings.cpython-3...
│   │   ├── settings.cpython-3...
│   │   ├── urls.cpython-37.pyc
│   │   ├── views.cpython-37.p...
│   │   └── wsgi.cpython-37.pyc
│   ├── __init__.py
│   ├── settings.py
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│   ├── static
│   │   ├── css
│   │   └── img
│   │       ├── gallery
│   │       │   ├── gallery-1.jpg
│   │       │   ├── gallery-2.jpg
│   │       │   ├── gallery-3.jpg
│   │       │   ├── gallery-4.jpg
│   │       │   ├── gallery-5.jpg
│   │       │   ├── gallery-6.jpg
│   │       │   ├── gallery-7.jpg
│   │       │   └── gallery-8.jpg
│   │       ├── team
│   │       └── hero-bg.jpg
│   ├── js
├── OUTLINE
└── TIMELINE

paitent > views.py
1  from django.shortcuts import render
2  from django.http import JsonResponse
3  from django.contrib import messages
4  from paitent.models import paitentmodel
5  from django.views.decorators.http import require_GET
6  import random
7
8
9  import nltk
10 nltk.download('punkt')
11
12 # import googlemaps # pip install -U googlemaps
13 # gmaps = googlemaps.Client(key='YOUR_API_KEY')
14 # gmaps = []
15
16 # Create your views here.
17 def paitent(request):
18     return render(request, "paitent.html")
19
20 def userregisterAction(request):
21     if request.method == 'POST':
22         name = request.POST.get('uname')
23         email = request.POST.get('uemail')
24         password = request.POST.get('upassword')
25         phoneno = request.POST.get('uphone')
26         print(name, email, password, phoneno)
27         form1 = paitentmodel(name=name, email=email, password=password, phoneno=phoneno, status='waiting')
28         form1.save()
29         return render(request, "paitent.html")
30     else:
31         return render(request, "paitent.html")
32
33 def userloginaction(request):
34     if request.method == 'POST':
35         sname = request.POST.get('email')
36         spasswd = request.POST.get('password')
37         print(sname, spasswd)
```

EXPLORER ... Release Notes: 1.84.0 views.py admin.html

PROJECT

- views.py
- wsgi.py
- assets
 - static
- templates
 - admin
 - adminbase.html
 - adminhome.html
 - adminpaitent.html
 - user
- admin.html
- base.html

```
148 # Check if the token is present in hospital_remedy_map
149 for token in tokens:
150     if token in hospital_remedy_map:
151         remedy = hospital_remedy_map[token]
152         hyperlink = f'<a href="{remedy}" target="_blank">Click here for more information</a>'
153         response = f'For {token}, you can try: {hyperlink}'
154         break
155     else:
156         response = "Please consult a doctor for a proper diagnosis."
157 else:
158     response = random.choice(greeting_responses)
159
160 return JsonResponse({'response': response})
161
```


EXPLORER

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views.py

admin.html

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manage.py

run.txt

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patient

views.py

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Symptom-remedy mapping

76

symptom_remedy_map = {

77

"headache" : "Drink plenty of water and get some rest.",

78

"fever" : "Take acetaminophen and drink fluids to stay hydrated.",

79

"cough" : "Try over-the-counter cough syrup and warm liquids.",

80

"drugreaction": "stop irritation consult nearest hospital stop taking drug follow up",

81

"malaria" : "Consult nearest hospital avoid oily food avoid non veg food keep mosquitos out",

82

"allergy" : "apply calamine cover area with bandage use ice to compress itching",

83

"hypothyroidism": "reduce stress exercise eat healthy get proper sleep",

84

"psoriasis" : "wash hands with warm soapy water stop bleeding using pressure consult doctor salt baths",

85

"GERD" : "avoid fatty spicy food avoid lying down after eating maintain healthy weight exercise",

86

"chroniccholestasis": " cold baths anti itch medicine consult doctor eat healthy",

87

"hepatitis" : "A Consult nearest hospital wash hands through avoid fatty spicy food medication",

88

"osteoarthritis": " acetaminophen consult nearest hospital follow up salt baths",

89

"paroymsalpositionalvertigo " : " lie down avoid sudden change in body avoid abrupt head movment relax",

90

"hypoglycemia": "lie down on side check in pulse drink sugary drinks consult doctor",

91

"acne" : "bath twice avoid fatty spicy food drink plenty of water avoid too many products",

92

"diabetes" : " have balanced diet exercise consult doctor follow up",

93

"impetigo" : "soak affected area in warm water use antibiotics remove scabs with wet compressed cloth consult doctor",

94

"hypertension" : " meditation salt baths reduce stress get proper sleep",

95

"pepticulcerdiseae": " avoid fatty spicy food consume probiotic food eliminate milk limit alcohol",

96

"dimorphichemmorhoids" : "avoid fatty spicy food consume witch hazel warm bath with epsom salt consume alovera juice",

97

"commoncold": " drink vitamin c rich drinks take vapour avoid cold food keep fever in check",

98

"chickenpox": " use neem in bathing consume neem leaves take vaccine avoid public places",

99

"cervicalspondylosis" : "use heating pad or cold pack exercise take otc pain reliver consult doctor",

100

"hyperthyroidism" : "eat healthy massage use lemon balm take radioactive iodine treatment",

101

"urinarytractinfection": " drink plenty of water increase vitamin c intake drink cranberry juice take probiotics",

102

"varicoseveins": " lie down flat and raise the leg high use oinments use vein compression dont stand still for long",

103

"aids" : " avoid open cuts wear ppe if possible consult doctor follow up",

104

"paralysis " : "massage eat healthy exercise consult doctor",

105

"typhoid" : "eat high calorie vegetables antiboitic therapy consult doctor medication",

106

"hepatitis" : "consult nearest hospital vaccination eat healthy medication",

107

"fungalinfection": "bath twice use detol or neem in bathing water keep infected area dry use clean cloths",

108

"hepatitisc" : "Consult nearest hospital vaccination eat healthy medication",

109

"migraine" : " meditation reduce stress use poloroid glasses in sun consult doctor",

110

"bronchialasthma": "switch to loose cloothing take deep breaths get away from trigger seek help",

111

"alcoholichepatitis": "stop alcohol consumption consult doctor medication follow up",

EXPLORER

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views.py

admin.html

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paitent > views.py

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"jaundice" : "drink plenty of water  consume milk thistle  eat fruits and high fiberous food  medication",
"hepatitise" : "stop alcohol consumption  rest  consult doctor  medication",
"dengue" : "drink papaya leaf juice  avoid fatty spicy food  keep mosquitos away keep hydrated",
"hepatitisd": "consult doctor medication  eat healthy follow up",
"heartattack": "chew or swallow aspirin keep calm  ",
"pneumonia" : "consult doctor  medication rest  follow up",
"arthritis" : "exercise  use hot and cold therapy  try acupuncture massage",
"gastroenteritis": " stop eating solid food for while  try taking small sips of water  rest  ease back into eating",
"tuberculosis": "  cover mouth consult doctor  medication  rest",
# Add more symptoms and remedies as needed

}

hospital_remedy_map = {

"hyderabad": "https://www.google.com/search?sca_esv=c7d05ac6ad01166f&tbs=lf:1,lf_ui:2&tbm=lcl&sxsrf=ACQVn08vRIMOLDfN5josfZYbnZMdh1xOzg:170814097
"chennai" : "https://www.google.com/search?q=best+hospitals+in+chennai&sca_esv=c7d05ac6ad01166f&biw=1536&bih=695&tbm=lcl&sxsrf=ACQVn0-u2GLXUUVY5
# Add more remedies and links as needed

}

if message:
    # Tokenize the message
    tokens = nltk.word_tokenize(message.lower())

    if "hello" in tokens:
        response = random.choice(greeting_responses)
    elif "goodbye" in tokens:
        response = random.choice(goodbye_responses)
    else:
        symptom_list = [token for token in tokens if token in symptom_remedy_map]

        if symptom_list:
            remedy_list = [f"For {symptom} : {symptom_remedy_map[symptom]}, Enter nearby city name to prefer Best hospitals" for symptom in symp
            response = remedy_list
        else:
            # check if the token is present in hospital_remedy_map

```


EXPLORER

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gallery-6.jpg

gallery-7.jpg

gallery-8.jpg

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views.py

adminpaitent.html

assets > templates > admin > adminpaitent.html > ...

```

1 {% extends 'admin/adminbase.html' %}
2 {% load static %}
3
4 {% block contents %}
5
6
7 <section class="">
8     <div class="container py-4">
9         <div class="row d-flex justify-content-center py-5">
10             <div class="col-md-12">
11
12                 <table border="2px" class="table table-hover table-dark">
13                     <thead>
14                         <tr class="table-danger">
15                             <th scope="col">S.No</th>
16                             <th scope="col">Name</th>
17                             <th scope="col">Mobile</th>
18                             <th scope="col">Email</th>
19                             <th scope="col">Status</th>
20                             <th scope="col">Activate</th>
21
22                     </thead>
23                     <tbody>
24                         {% for i in data %}
25                         <tr scope="row" style="color: BLUE; background-color: #FFFCB8">
26                             <td>{{forloop.counter}}</td>
27                             <td>{{i.name}}</td>
28                             <td>{{i.phoneno}}</td>
29                             <td>{{i.email}}</td>
30                             <td>{{i.status}}</td>
31
32                             {% if i.status == 'waiting' %}
33                             <td><a class="btn-link" href="/AdminActiveUsers/?uid={{ i.id }}"
34                                 style="color: rgb(235, 235, 239)">Activate</a></td>
35                             {% else %}
36                             <td>Activated</td>
37                             {% endif %}

```


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PROJECT assets > templates > admin > adminbase.html > html > body > header#header.fixed-top > div.container.d-flex.align-items-center

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 - paitent.html
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 - symptom_precautio...
 - paitent
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 - __init__.py
 - admin.py
 - apps.py
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OUTLINE

```
<!-- ===== Header ===== -->
<header id="header" class="fixed-top">
  <div class="container d-flex align-items-center">

    <h1 class="logo me-auto"><a href="#">Medilab</a></h1>

    <nav id="navbar" class="navbar order-last order-lg-0">
      <ul>
        <li><a class="nav-link scrollto active" href="{% url 'adminshome' %}">Home</a></li>
        <li><a class="nav-link scrollto" href="{% url 'adminpaitent' %}">Paitent</a></li>
        <!-- <li><a class="nav-link scrollto" href="{% url 'admins' %}">Admin</a></li> -->
      </ul>
      <i class="bi bi-list mobile-nav-toggle"></i>
    </nav><!-- .navbar -->

    <a href="{% url 'adminslogout' %}" class="appointment-btn scrollto"><span class="d-none d-md-inline">Logout</a>

  </div>
</header><!-- End Header -->

<!-- ===== Hero Section ===== -->
<section id="hero" class="d-flex align-items-center">
  <div class="container">
    <h1>Welcome to Medilab Admin</h1>
  </div>
</section><!-- End Hero -->

{%block contents%}

{%endblock%}
```



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EXPLORER

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views.py

adminbase.html

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```
<!-- ===== Footer ===== -->
<footer id="footer">

    <div class="container d-md-flex py-4">

        <div class="me-md-auto text-center text-md-start">
            <div class="copyright">
                &copy; Copyright <strong><span>Medilab</span></strong>. All Rights Reserved
            </div>
            <div class="credits">
                Designed by <a>Prajwal Reddy</a>
            </div>
        </div>
        <div class="social-links text-center text-md-right pt-3 pt-md-0">
            <a class="twitter"><i class="bx bxl-twitter"></i></a>
            <a class="facebook"><i class="bx bxl-facebook"></i></a>
            <a class="instagram"><i class="bx bxl-instagram"></i></a>
            <a class="google-plus"><i class="bx bxl-skype"></i></a>
            <a class="linkedin"><i class="bx bxl-linkedin"></i></a>
        </div>
    </div>
</footer><!-- End Footer -->

<div id="preloader"></div>
<a href="#" class="back-to-top d-flex align-items-center justify-content-center"><i class="bi bi-arrow-up-short"></i></a>

<!-- Vendor JS Files -->
<script src="{% static 'vendor/purecounter/purecounter_vanilla.js' %}"></script>
<script src="{% static 'vendor/bootstrap/js/bootstrap.bundle.min.js' %}"></script>
<script src="{% static 'vendor/glightbox/js/glightbox.min.js' %}"></script>
<script src="{% static 'vendor/swiper/swiper-bundle.min.js' %}"></script>
<script src="{% static 'vendor/php-email-form/validate.js' %}"></script>

<!-- Template Main JS File -->
<script src="{% static 'js/main.js' %}"></script>
```

EXPLORER Release Notes: 1.84.0 views.py paitent.html X

PROJECT assets > templates > > paitent.html > ...

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 models.py
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 views.py
db.sqlite3
manage.py
run.txt

C:\Users\91630\OneDrive\Desktop\project\project\project\assets

```
2  {% load static %}
3
4  {% block contents %}
5
6  <style>
7      .login-btn {
8          display: block;
9          margin: 0 auto;
10         background-color: #1977cc; /* Set button background color to blue */
11         color: white; /* Set text color to white */
12         border: none; /* Remove button border */
13         padding: 10px 20px; /* Add padding to the button */
14         cursor: pointer; /* Change cursor to pointer on hover */
15         border-radius: 5px; /* Add border radius for rounded corners */
16     }
17 </style>
18
19 <!-- ===== Login Section ===== -->
20 <section id="appointment" class="appointment section-bg">
21     <div class="container">
22
23         <div class="section-title">
24             <h2>Make an Login</h2>
25         </div>
26
27         <form action="/userloginaction/" method="post">
28             {% csrf_token %}
29             <div class="row">
30                 <div class="col-md-4 form-group">
31                     <input type="text" name="email" class="form-control" id="email" placeholder="Your Email" data-rule="minlen:4" data-msg="Please enter at least 4 characters">
32                     <div class="validate"></div>
33                 </div>
34                 <div class="col-md-4 form-group mt-3 mt-md-0">
35                     <input type="password" class="form-control" name="password" id="password" placeholder="Your password" data-rule="minlen:4" data-msg="Please enter at least 4 characters">
36                     <div class="validate"></div>
37                 </div>
38             </div>
39             <div class="text-center">
40                 <button type="submit" class="btn btn-primary">Login</button>
41             </div>
42         </form>
43     </div>
44 </section>
45 </block>
46 </div>
```


EXPLORER

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- views.py
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views.py

paitent.html X

assets > templates > paitent.html > ...

```

37         <div class="validate"></div>
38     </div>
39 </div>
40 <br>
41 <div class="form-group mb-3">
42     <button class="btn btn-light btn-lg login-btn" type="submit" value="submit"><strong>Login</strong></button>
43 </div>
44 </form>
45 {% if messages %}
46 {% for message in messages %}
47     <font color='red'> {{ message }}</font>
48 {% endfor %}
49 {% endif %}
50
51 </div>
52 </section><!-- End login Section -->
53
54 <!-- ===== Register Section ===== -->
55 <section id="appointment" class="appointment section-bg">
56     <div class="container">
57
58         <div class="section-title">
59             <h2>Make an Registration</h2>
60         </div>
61
62         <form action="/userregisterAction/" method="post" >
63             {% csrf_token %}
64             <div class="row">
65                 <div class="col-md-4 form-group">
66                     <input type="text" name="uname" class="form-control" id="name" placeholder="Your Name" data-rule="minlen:4" data-msg="Please enter at le
67                     <div class="validate"></div>
68                 </div>
69                 <div class="col-md-4 form-group mt-3 mt-md-0">
70                     <input type="email" class="form-control" name="uemail" id="email" placeholder="Your Email" data-rule="email" data-msg="Please enter a va
71                     <div class="validate"></div>
72                 </div>

```

EXPLORER ... Release Notes: 1.84.0 views.py paitent.html X

PROJECT assets > templates > paitent.html > ...

- views.py
- wsgi.py
- assets
 - static
- templates
 - admin
 - adminbase.html
 - adminhome.html
 - adminpaitent.html
 - user
 - admin.html
 - base.html
 - index.html
 - paitent.html**
- media \ MasterData
 - symptom_Descriptio...
 - symptom_precautio...
- paitent
 - _pycache_
 - migrations
 - _init_.py
 - admin.py

```
69     <div class="col-md-4 form-group mt-3 mt-md-0">
70         <input type="email" class="form-control" name="uemail" id="email" placeholder="Your Email" data-rule="email" data-msg="Please enter a va
71         <div class="validate"></div>
72     </div>
73     <div class="col-md-4 form-group mt-3 mt-md-0">
74         <input type="tel" class="form-control" name="uphone" id="phone" placeholder="Your Phone" data-rule="minlen:10" data-msg="Please enter at
75         <div class="validate"></div>
76     </div>
77 </div>
78 <div class="row">
79     <div class="col-md-4 form-group mt-3">
80         <input type="text" name="upassword" class="form-control datepicker" id="password" placeholder="password" data-rule="minlen:4" data-msg="
81         <div class="validate"></div>
82     </div>
83 </div>
84 <div class="form-group mb-3">
85     <button class="btn btn-light btn-lg login-btn" type="submit" value="submit"><strong>Make an Registration</strong></button>
86 </div>
87 </form>
88
89 </div>
90 </section><!-- End Register Section -->
91
92 {% endblock %}
```

WELCOME TO MEDILAB ADMIN

S.No	Name	Mobile	Email	Status	Activate
1	test	7410235689	test@gmail.com	activated	Activated
2	test	741025	test@gmail.com	waiting	Activate
3	Prajwal	7532104698	prajwal@gmail.com	activated	Activated
4	kalyan	7412568930	kalyansaggam@gmail.com	activated	Activated
5	teja	7585562231	teja@gmail.com	activated	Activated

Medilab

[Home](#)[Connect with chatbot](#)[Logout](#)

Hi, welcome to One to One AI doctorBot!

hi i think i have aids

For aids : avoid open cuts wear ppe if possible consult
doctor follow up, Enter nearby City name to prefer Best
hospitals

chennai

For chennai, you can try: [Click here for more information](#)

Send



Google best hospitals in chennai

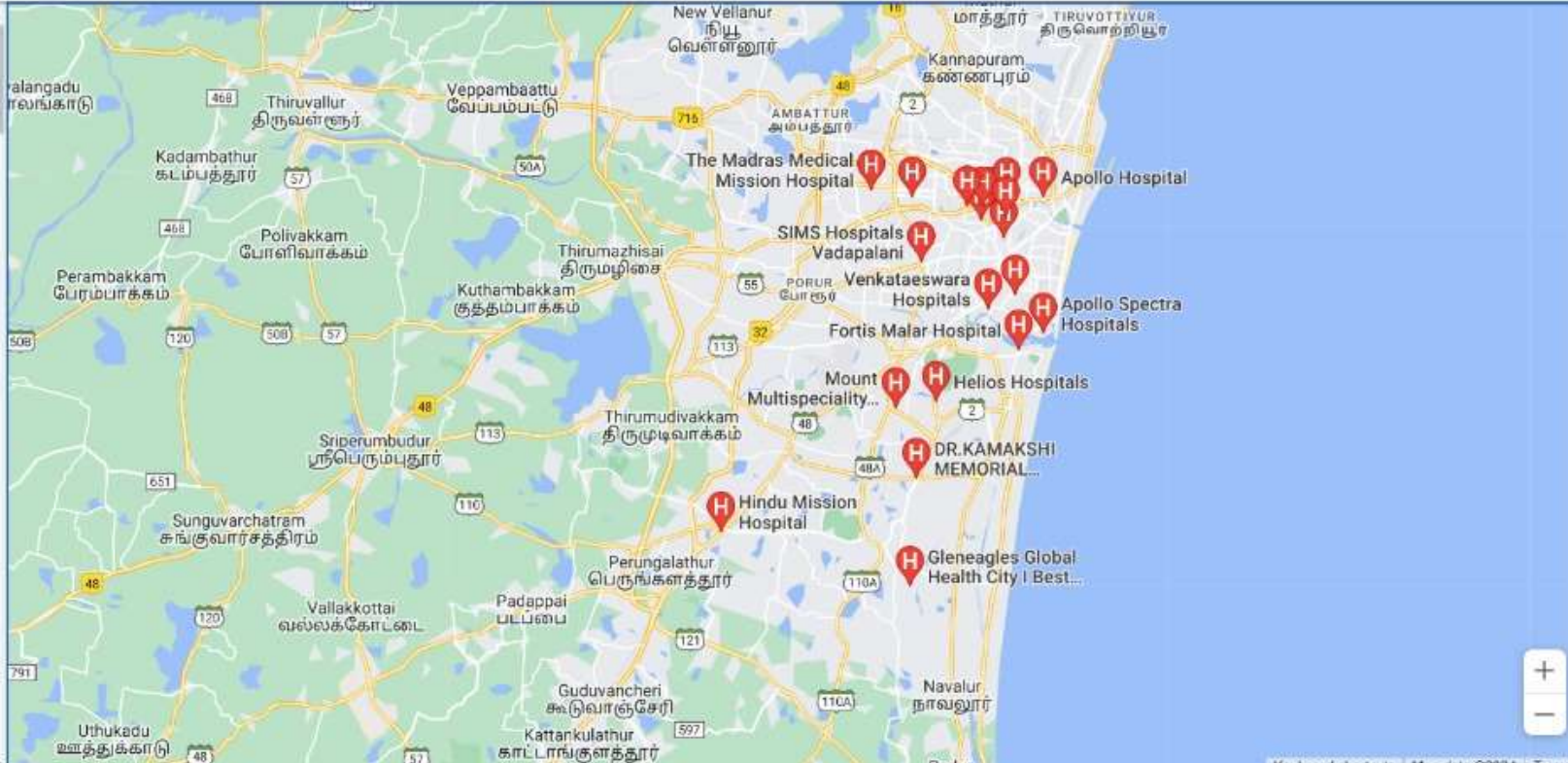
4.0+ rating Hours Clear filters

Gleneagles Global Health...
4.4 ★★★★★ (4.6T) · General ...
439
Open 24 hours · 044 4477 7000
"Good facilities Competant doctors and friendly supportl..."
WEBSITE DIRECTIONS

Lifeline Hospitals
4.8 ★★★★★ (4.3T) · General ...
47/3, New Avadi Rd
Open 24 hours · 074777 13821
"This is the best hospital."
WEBSITE DIRECTIONS

Fortis Malar Hospital
4.2 ★★★★★ (1.6T) · General hospital
No. 52, 1st Main Rd
Open 24 hours · 099625 99933
"Thank a lot and do the same as well services to everyone."
DIRECTIONS

DR.KAMAKSHI MEMORIA...
4.2 ★★★★★ (7T) · General ho...
1. 200 Feet Radial Rd



Keyboard shortcuts Map data ©2024 Terms



Make Disease prediction

Type {0 for no} and {1 for yes}

Submit

Your Prediction: ['jaundice']

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Thank You