

# AMAZON TRANSCRIBE MEDICAL

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# Overview

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# INTRODUCTION

- Automatic speech recognition service.
- Transcribes medical terminologies.
- Diverse range of use cases.
- It is HIPAA eligible .
- Data privacy and security.

# EXISTING SYSTEM

- It has a medical transcriptionist.
- Responsible for listening to voice record and written reports.
- Very hardworking and time consuming process.
- Chance of losing and errors of data.
- less user friendly.

# PROPOSED SYSTEM

- Automatic speech recognition service.
- it automatically transmit audio to text.
- Easy to manage and maintain.
- Reduce the manual work.
- Easy to retrieve the data and user friendly.

# MODULE DESCRIPTION

- Audio file transcribe.
- Record transcribe.
- Admin panel.

- Audio file transcribe
  - Audio file language
  - speech type
  - patient or case number
  - email address

- Record transcribe
  - Record the voice using start button.
  - Audio file language
  - speech type
  - patient or case number
  - email address



- Admin panel

- login and registration.
- create and edit patient case number.
- Audio file upload.
- successful results.
- daily transcribe tasks.
- case name with audio file name.
- google analytics.
- Adsense.
- email services.
- profile setting.

# PRODUCT BACKLOG

Sl.No	Description	Priority
1	Data base creation	1
2	Home page creation	2
3	Registration and Login Page creation	3
4	Creation of audio transcribe	4
5	Creation of record transcribe	5
6	Creation of admin session	6

# SPRINT BACKLOG

Sl.No	Date	Tasks	Status
1	31/3/21 TO 9-04-21	Discussion of topics and Requirement	Completed
2	10/4/21 To 15/4/21	Table Design	completed
3	19/4/21-30/4/21	DFD,Form Design	completed
4	1/5/21	Coding	In progress

# HARDWARE AND SOFTWARE SPECIFICATION

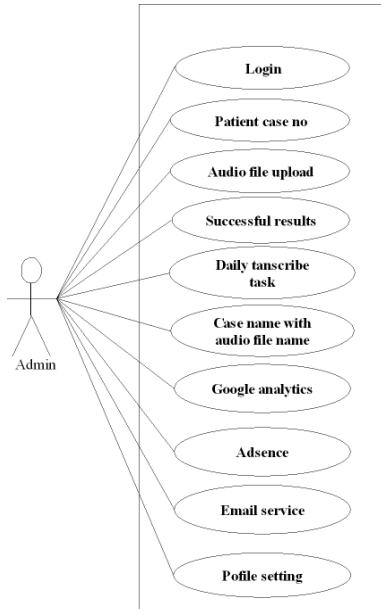
- Hardware Specification

- 32-bit or 64-bit
- 2 GB RAM
- intel i3.

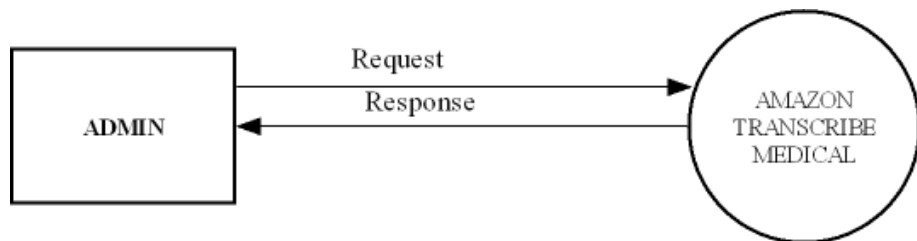
- Software Specification

- Operating system: Windows 7 or above.
- Framework: Django
- Browser: Any Browser
- Front-End: Python 3.8.0
- Backend: MySql

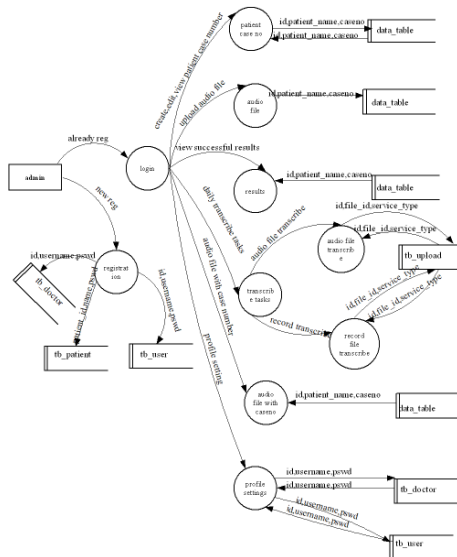
# USE CASE DIAGRAM



# DATA FLOW DIAGRAM:Level 0



# Level 1



# TABLE DESIGN

## 1.Data\_table

<b>column name</b>	<b>Data type</b>	<b>Constraints</b>
<b>id</b>	<b>int(10)</b>	<b>primary key</b>
<b>case_number</b>	<b>varchar(255)</b>	<b>not null</b>
<b>date</b>	<b>date</b>	<b>not null</b>
<b>doctorname</b>	<b>varchar(250)</b>	<b>not null</b>
<b>audio_file_language</b>	<b>text</b>	<b>not null</b>
<b>rec_duration</b>	<b>varchar(100)</b>	<b>not null</b>
<b>speech_type</b>	<b>varchar(2)</b>	<b>not null</b>
<b>active_status</b>	<b>tinyint(4)</b>	<b>not null</b>
<b>created_at</b>	<b>timestamp</b>	<b>not null</b>
<b>updated_at</b>	<b>timestamp</b>	<b>not null</b>
<b>created_by</b>	<b>int(10)</b>	<b>not null</b>
<b>updated_by</b>	<b>int(10)</b>	<b>not null</b>
<b>medtrans_id</b>	<b>int(10)</b>	<b>foreign key</b>



**2.Doctor\_table**

<b>column name</b>	<b>Data type</b>	<b>Constraints</b>
<b>id</b>	<b>int(11)</b>	<b>primary key</b>
<b>username</b>	<b>varchar(30)</b>	<b>not null</b>
<b>password</b>	<b>varchar(30)</b>	<b>not null</b>
<b>email</b>	<b>varchar(30)</b>	<b>not null</b>
<b>join_date</b>	<b>timestamp</b>	<b>not null</b>
<b>address</b>	<b>varchar(250)</b>	<b>not null</b>
<b>hospital/management name</b>	<b>varchar(250)</b>	<b>not null</b>
<b>doctor verfid</b>	<b>varchar(15)</b>	<b>not null</b>

## 3.patient\_table

column name	Data type	Constraints
patient_id	int(11)	primary key
patient_name	varchar(250)	not null
password	varchar(20)	not null
gender	varchar(20)	not null
mobile_number	varchar(30)	not null
day	int(10)	not null
month	varchar(20)	not null
year	int(20)	not null
street_address	varchar(250)	not null
city	varchar(250)	not null
zipcode	int(30)	not null
country	varchar(250)	not null
email	varchar(250)	not null
tset1	varchar(20)	not null
test2	varchar(20)	not null

#### 4.medtran\_table

column name	Data type	Constraints
medtrans_id	int(11)	primary key
org_name	varchar(200)	not null
created_by	tinyint(4)	not null
updated_by	tinyint(4)	not null
created_at	timestamp	not null
updated_at	timestamp	not null

## 5.roles

<b>column name</b>	<b>Data type</b>	<b>Constraints</b>
<b>id</b>	<b>int(11)</b>	<b>primary key</b>
<b>name</b>	<b>varchar(100)</b>	<b>not null</b>
<b>type</b>	<b>varchar(100)</b>	<b>not null</b>
<b>active_status</b>	<b>tinyint(4)</b>	<b>not null</b>
<b>created_by</b>	<b>varchar(255)</b>	<b>not null</b>
<b>updated_by</b>	<b>varchar(255)</b>	<b>not null</b>
<b>created_at</b>	<b>timestamp</b>	<b>not null</b>
<b>updated_at</b>	<b>timestamp</b>	<b>not null</b>
<b>medtrans_id</b>	<b>int(10)</b>	<b>foreign key</b>

## 6.upload

column name	Data type	Constraints
id	int(11)	primary key
file name	text	not null
file_id	text	not null
service_type	varchar(20)	not null
description	medium text	not null
file size	double	not null
created_at	datetime	not null
client_id	int(11)	not null
user_id	int(11)	not null
uploaded_by	int(11)	not null
deleted	tinyint(11)	not null

## 7.user

column name	Data type	Constraints
id	int(11)	primary key
full name	varchar(250)	not null
username	varchar(250)	not null
email	varchar(250)	not null
password	varchar(100)	not null
user type	varchar(200)	not null
access_status	tinyint(4)	not null
active_status	tinyint(4)	not null
random_code	text	not null
notification_token	text	not null
rember_token	varchar(100)	not null
created_at	timestamp	not null
updated_at	timestamp	not null
created_by	int(11)	not null
updated_by	int(11)	not null
medtrans_id	int(11)	foreign key
role_id	int(11)	foreign key

## DOCTOR REGISTRATION

### HOW IT WORKS:

- With Amazon Transcribe Medical, you can quickly and accurately transcribe medical dictation and conversational speech into text for a variety of purposes, such as recording physician notes.
- Amazon Transcribe Medical currently supports medical transcription in US English language only.
- It supports transcription for primary care, covering specialties such as family medicine, internal medicine, pediatrics, and OB-GYN.
- Supported audio encoding formats are mp3 | mp4 | wav | flac | ogg | amr | webm.
- Maximum supported audio file size is up to 200.
- Maximum supported audio file length is up to 4 hours.
- Speaker identification feature can identify up to 10 speakers.
- For best results use: FLAC or WAV formats, with PCM 16-bit encoding.
- Amazon Transcribe Medical is HIPAA compliant.

### RESULTS:

00:00

00:23

TRANSCRIBE MEDICAL RESPONSE:

RAW TEXT (UNEDITED )

SPEAKER IDENTIFICATION

**DOCTOR NAME** (REQUIRED)

Enter Doctor's Full Name

**EMAIL ADDRESS** (REQUIRED)

Your Email Address

**DOCTOR VERIFICATION ID** (REQUIRED)

ver id

**ADDRESS** (REQUIRED)

full address

**HOSPITAL NAME** (REQUIRED)

hospital/Management name

**PASSWORD** (REQUIRED)

password

**JOIN DATE** (REQUIRED)

dd-mm-yyyy

REGISTER NOW

Figure: Doctor Registration

(MARY SHEMNA V.N(KTE18MCA039))

AMAZON TRANSCRIBE MEDICAL

28 MAY 2021

22 / 31

## USER REGISTRATION

### HOW IT WORKS:

- With Amazon Transcribe Medical, you can quickly and accurately transcribe medical dictation and conversational speech into text for a variety of purposes, such as recording physician notes.
- Amazon Transcribe Medical currently supports medical transcription in US English language only.
- It supports transcription for **primary care**, covering specialties such as **family medicine, internal medicine, pediatrics, and OB-GYN**.
- Supported audio encoding formats are **mp3 | mp4 | wav | flac | ogg | amr | webm**.
- Maximum supported audio file size is up to **2GB**.
- Maximum supported audio file length is up to **4 hours**.
- Speaker identification feature can identify up to **10 speakers**.
- For best results use **FLAC or WAV** formats, with **PCM 16-bit** encoding.
- Amazon Transcribe Medical is **HIPAA compliant**.

### RESULTS:



#### TRANSCRIBE MEDICAL RESPONSE:

RAW TEXT (UNEDITED)

SPEAKER IDENTIFICATION

NAME(REQUIRED)

Enter Full Name

EMAIL ADDRESS (REQUIRED)

Your Email Address

MEDICAL TRANSCRIBE MANAGEMENT ID(REQUIRED)

enter your unique id

USER TYPE(REQUIRED)

Staff

PASSWORD(REQUIRED)

password

ADMIN PASSWORD(REQUIRED)

admin/staff password for authentication

REGISTER NOW



## PATIENT REGISTRATION

### HOW IT WORKS:

- With Amazon Transcribe Medical, you can quickly and accurately transcribe medical dictation and conversational speech into text for a variety of purposes, such as recording physician notes.
- Amazon Transcribe Medical currently supports medical transcription in US English language only.
- It supports transcription for primary care, covering specialties such as family medicine, internal medicine, pediatrics, and OB-GYN.
- Supported audio encoding formats are mp3 | mp4 | wav | flac | ogg | amr | webm.
- Maximum supported audio file size is up to 2GB.
- Maximum supported audio file length is up to 4 hours.
- Speaker Identification feature can identify up to 10 speakers.
- For best results use: **FLAC** or **WAV** formats, with PCM 16-bit encoding.
- Amazon Transcribe Medical is HIPAA compliant.

### RESULTS:



#### TRANSCRIBE MEDICAL RESPONSE:

RAW TEXT (UNEDITED)

SPEAKER IDENTIFICATION

NAME<sup>(REQUIRED)</sup>

Enter Full Name

GENDER<sup>(REQUIRED)</sup>

Male/Female

MOBILE NUMBER<sup>(REQUIRED)</sup>

enter correct mobile number (updates are informed through

DATE OF ADMISSION<sup>(REQUIRED)</sup>

dd-mm-yyyy

ADDRESS<sup>(REQUIRED)</sup>

Address

EMAIL<sup>(REQUIRED)</sup>

email

SAVE AND CONTINUE

# FORM DESIGN

The image shows a patient registration form with the following fields and labels:

- CITY**(REQUIRED): A text input field containing the word "city".
- ZIPCODE**(REQUIRED): A text input field containing the word "zipcode".
- COUNTRY**(REQUIRED): A text input field containing the text "enter your country".
- TEST 1**(REQUIRED): A text input field containing the text "Describe any past test done".
- TEST 2**(REQUIRED): A text input field containing the text "additional test".
- ADMIN PASSWORD**(REQUIRED): A text input field containing the text "admin/staff password for authentication".
- REGISTER NOW**: A blue button with white text.

Figure: Patient Registration cont..

**AMAZON TRANSCRIBE MEDICAL**

**ACCOUNT LOGIN**

**USERNAME**

admin

**PASSWORD**

\*\*\*\*\*

☒ Remember me

**SIGN IN**

Login Credentials

Figure: Login

# FORM DESIGN

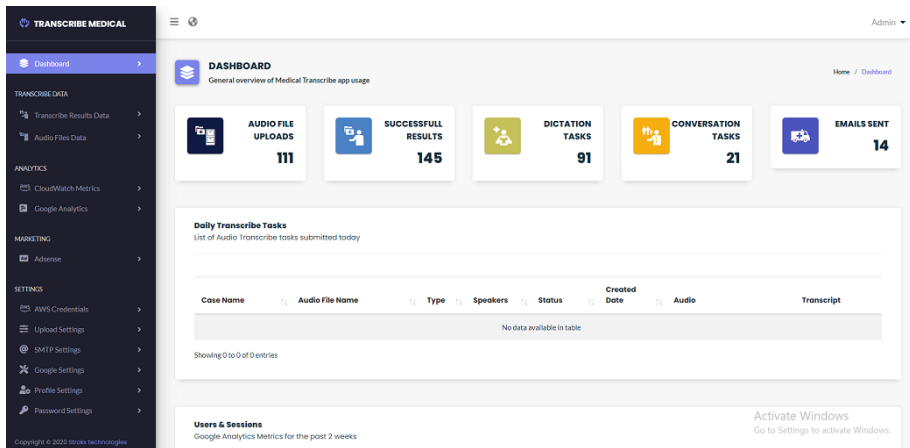


Figure: Dash Board

# FORM DESIGN

The screenshot displays the 'Transcribe Medical' web application interface. On the left is a dark sidebar with navigation links: Dashboard, Transcribe Data, Audio File Data (highlighted), Analytics, Marketing, and Settings. The main content area is titled 'AUDIO FILES' and shows 'All uploaded audio files'. Below this is the 'Audio Files Table' with a search bar and a table of uploaded files. The table has columns for Case Name, Audio File Name, File Size, File Type, Length, Sample Rate, Email, Language, Upload Date, and Action. There are 10 rows of data, each with a delete icon in the Action column.

Case Name	Audio File Name	File Size	File Type	Length	Sample Rate	Email	Language	Upload Date	Action
pappin	1621338013-pappin.wav	1.91 MB	audio/wav	00:00:10			en-US	2021-05-18	
arool	1620664801-Arool1.wav	3.42 MB	audio/wav	00:00:20			en-US	2021-05-10	
arool	VOXTAB-4-medical-audio.mp3	878.18 KB	audio/mpeg	00:02:14			en-US	2021-05-10	
a	1620126173-a.wav	1.73 MB	audio/wav	00:00:09			en-US	2021-05-04	
test1	EH24.mp3	42.09 KB	audio/mpeg	00:00:10			en-US	2021-04-23	
bobby-jones	1618496853-bobby-jones.wav	3.19 MB	audio/wav	00:00:17			en-US	2021-04-13	
assy	1618023713-assy.wav	3.53 MB	audio/wav	00:00:19	48000 Hz		en-US	2021-04-10	
john	1617923647-john.wav	1.03 MB	audio/wav	00:00:05	48000 Hz		en-US	2021-04-08	

Figure: Audio file upload

# GIT SCREEN SHOT

The screenshot shows the GitHub interface for the repository `shemna39 / amazon-transcribe-medical`. The top navigation bar includes links for Pull requests, Issues, Marketplace, and Explore. The repository header shows the name, a search bar, and statistics: 1 Unwatch, 1 Star, and 0 Forks. Below the header, there are tabs for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The main content area displays the `master` branch with 2 branches and 0 tags. A file list table shows recent changes, including a new folder and updates to various image files. On the right, the 'About' section is empty, and the 'Releases' and 'Packages' sections indicate no published content.

shemna39 / amazon-transcribe-medical

Unwatch 1 Star 0 Fork 0

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

master 2 branches 0 tags

Go to file Add file Code

File	Change	Time
shemna39 Merge pull request #9 from shemna39/shemna 4e21d83 2 minutes ago 19 commits		
New folder	modify	12 hours ago
audio_file data.png	upd	1 minute ago
context level.png	diagram	12 days ago
dashboard.png	upd	1 minute ago
doctor reg.png	upd	1 minute ago
git pic.PNG	updated record	last month
git1.PNG	updated record	last month
level1.png	diagram	12 days ago
level1new.png	modify	12 hours ago

**About**

No description, website, or topics provided.

**Releases**

No releases published  
[Create a new release](#)

**Packages**

No packages published  
[Publish your first package](#)

# CONCLUSION

- Reliable software.
- It accurately transmit the medical terminologies.
- Manage the works of a medical transcriptionist.
- Provide easy maintenance and security .
- Efficient utilization of time.

# The End