Communication interfaces / Database / User interface - UNIT TESTS REPORT

GROUP NUMBER 1 – Doctors Simulation

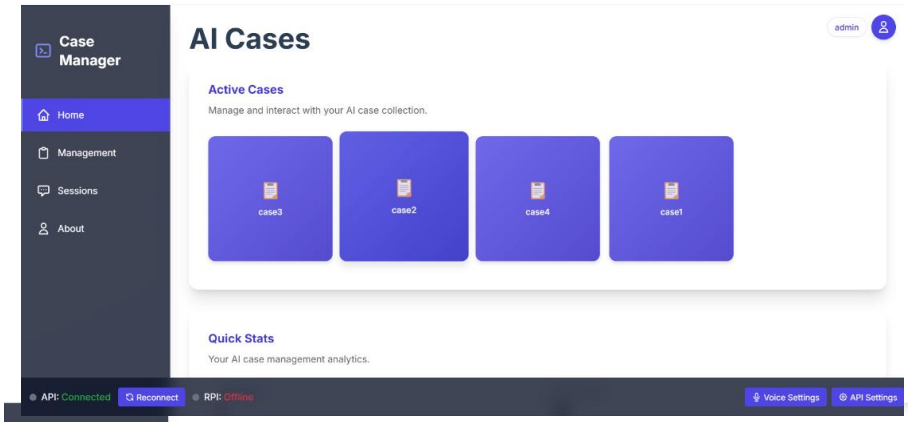
NOTE:

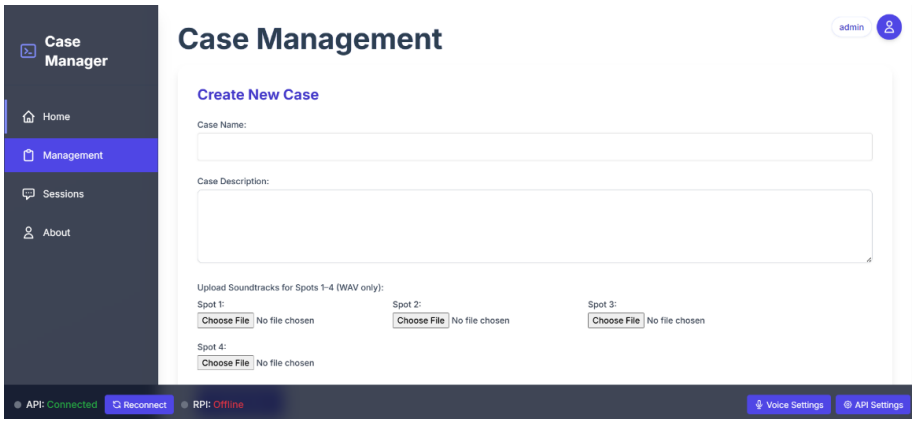
We have 2 git repositories – one for managing the RPI and one for the web application:

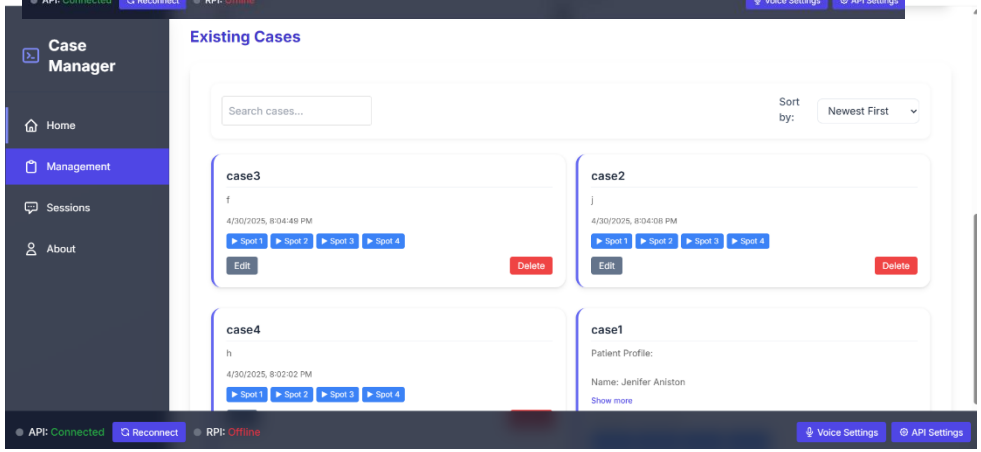
web application - https://github.com/idoisgeek/github.io.

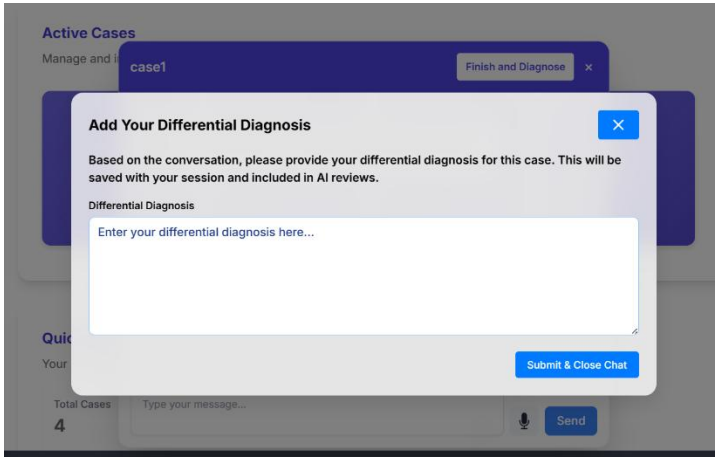
RPI manager - https://github.com/idoisgeek/IoT---Doctors-Training-

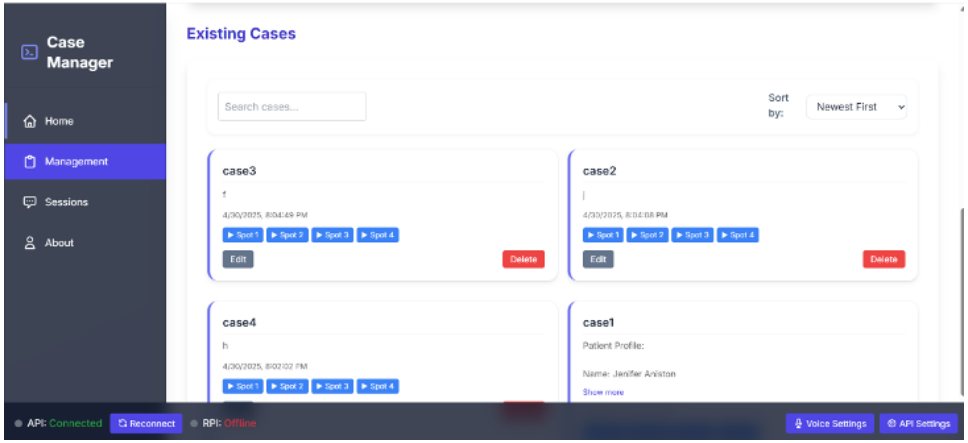
	interface name and purpose	Test results	Test filename	based on
1	**Wi-Fi – HTTP server** – user can start simulation on an HTML web app	Successfully started simulation from an HTML page by open chat with a GPT agent as a patient.	(repo1) index.html scripts.js server.js	Node.js, GPT API
2	**Wi-Fi – HTTP server** - user can manage case simulation (add, delete and edit) from web app. The app manages RPI directories via ssh.	Successfully added, deleted, and edited simulation folders and files on RPI via web interface using SSH commands.		Node.js, SSH
3	**Wi-Fi – working with GPT API** – user can chat with a GPT agent as a patient using GPT API	Successfully sent and received messages; GPT responded as patient with context aligned with the chosen case.		OpenAI GPT API documentation
4	**Wi-Fi – working with Ping** – getting remote RPI status (up and connected to the same WIFI) from the local computer and web app	Correctly displayed RPI online/offline status; tested by turning off/on RPI and connecting it to the same WIFI.		SSH, ping
5	**SSH –** manage remote RPI directories and soundtracks files	Created, renamed, and deleted directories and files remotely from web app; verified via checking at the RPI directories.		Node.js SSH2 library
6	**RFID** – read RFID tags and analyze the spot on the patient's body	Successfully read RFID tags and correctly mapped them to body spots	(repo2) GUI_Sounds_res.py	MCRF522 Module
7	**Touch screen** - retrieve number of existing cases from the RPI directories and display on touch screen for choosing and running simulation	Touch screen displayed accurate number of cases; user could select and run one		https://github.com/goodtft/LCD-show.git; PyQt5
8	**Sound** - read corresponding wav file from specific case folder and spot number, and play through the stethoscope amplifier	Correct wav file played based on selected case and spot; audio played via stethoscope speaker		pyaudio
9	**Power bank** - supply power to the whole system	Successfully powered entire system	Reality	

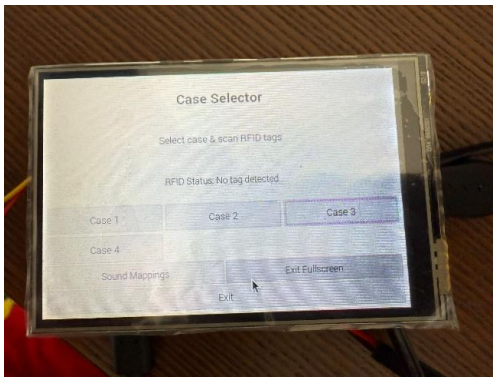

Case Manager
AI Cases
admin
Home
Management
Sessions
About
Active Cases
Manage and interact with your AI case collection.
case3
case2
case4
case1
Quick Stats
Your AI case management analytics.
API: Connected
Reconnect
RPI: Offline
Voice Settings
API Settings


Case Manager
Case Management
admin
Home
Management
Sessions
About
Create New Case
Case Name:
Case Description:
Upload Soundtracks for Spots 1-4 (WAV only):
Spot 1:
Spot 2:
Spot 3:
Spot 4:
Choose File
No file chosen
API: Connected
Reconnect
RPI: Offline
Voice Settings
API Settings


Case Manager
Existing Cases
Home
Management
Sessions
About
Search cases...
Sort by:
Newest First
case3
case2
case4
case1
Patient Profile:
Name: Jenifer Aniston
Show more
Edit
Delete
API: Connected
Reconnect
RPI: Offline
Voice Settings
API Settings


Active Cases
case1
Finish and Diagnose
Add Your Differential Diagnosis
Based on the conversation, please provide your differential diagnosis for this case. This will be saved with your session and included in AI reviews.
Differential Diagnosis
Enter your differential diagnosis here...
Submit & Close Chat
Total Cases
4
Type your message...
Send


Case Manager
Existing Cases
Home
Management
Sessions
About
Search cases...
Sort by:
Newest First
case3
case2
case4
case1
Patient Profile:
Name: Jenifer Aniston
Show more
Edit
Delete
API: Connected
Reconnect
RPI: Offline
Voice Settings
API Settings


Case Selector
Select case & scan RFID tags
RFID Status: No tag detected
Case 1
Case 2
Case 3
Case 4
Sound Mappings
Exit Fullscreen
Exit