

**DIPARTIMENTO DI INGEGNERIA NAVALE, ELETTRICA, ELETTRONICA E DELLE TELECOMUNICAZIONI**

**CORSO DI STUDIO IN INGEGNERIA ELETTRONICA E TECNOLOGIE DELL’INFORMAZIONE**

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**Design and Development of Voice Assistant**

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1. **Introduzione**

Un assistente vocale è un assistente virtuale basato su riconoscimento vocale che, se programmato opportunamente, può dialogare con interlocutori umani allo scopo di fornire informazioni o compiere determinate operazioni.

Per quanto questa tecnologia sia giovane, in realtà la sua prima implementazione risale addirittura al 1922, quando fu rilasciato il giocattolo “Radio Rex”, un cane che usciva dalla sua cuccia quando veniva nominato il suo nome.

Oggi il *voice* *recognition* offre già ottimi risultati pratici: anche se i dialoghi tra persona e operatore virtuale risultano essere ancora molto schematici e meccanici, gli assistenti virtuali sono diventati un valore aggiunto all’interfaccia uomo-macchina e le esperienze che essi rendono possibili vengono considerate tra i maggiori progressi tecnologici recenti. Benché la scrittura sia diventata molto veloce, parlare sarà sempre più rapido, più naturale, meno soggetto a errori e, non essendo necessaria una tastiera, è possibile integrare un assistente virtuale in un *array* di dispositivi molto più ampio.

Si nota infatti che gli assistenti virtuali non sono più limitati alle applicazioni per smartphone, ma sono diffusi anche in altri settori, come l’industria automobilistica, le telecomunicazioni, la vendita, l’assistenza sanitaria e l’educazione.

Oltre ad essere una risorsa per i consumatori, essi possono offrire un servizio non indifferente anche per le imprese. Ad esempio, un assistente virtuale può organizzare incontri, controllare l’inventario o verificare documenti aziendali. Grazie alla loro diffusione rapida nelle piccole e medie imprese, rappresentano un piccolo passo verso un adattamento globale sfruttando l’IoT (Internet of Things), l’Internet delle cose, in cui, per “cose”, si possono intendere dispositivi, apparecchiature, impianti e sistemi, macchine e attrezzature. Un acronimo che ha al proprio interno il concetto del portare a termine un lavoro appoggiandosi a Things connesse alla rete.

Questo progetto si basa quasi unicamente sull’IoT: è stato implementato su un Raspberry Pi, un assistente virtuale in grado di ottenere le parole pronunciate sotto forma di stringhe ed inviare le stringhe ad un IoT Framework. Successivamente è stata realizzata un’applicazione Android che mostra le stringhe inviate dall’assistente vocale alla API. Inoltre, lo smartphone tramite *push notification* viene notificato ogni volta che l’assistente invia al server nuove informazioni.

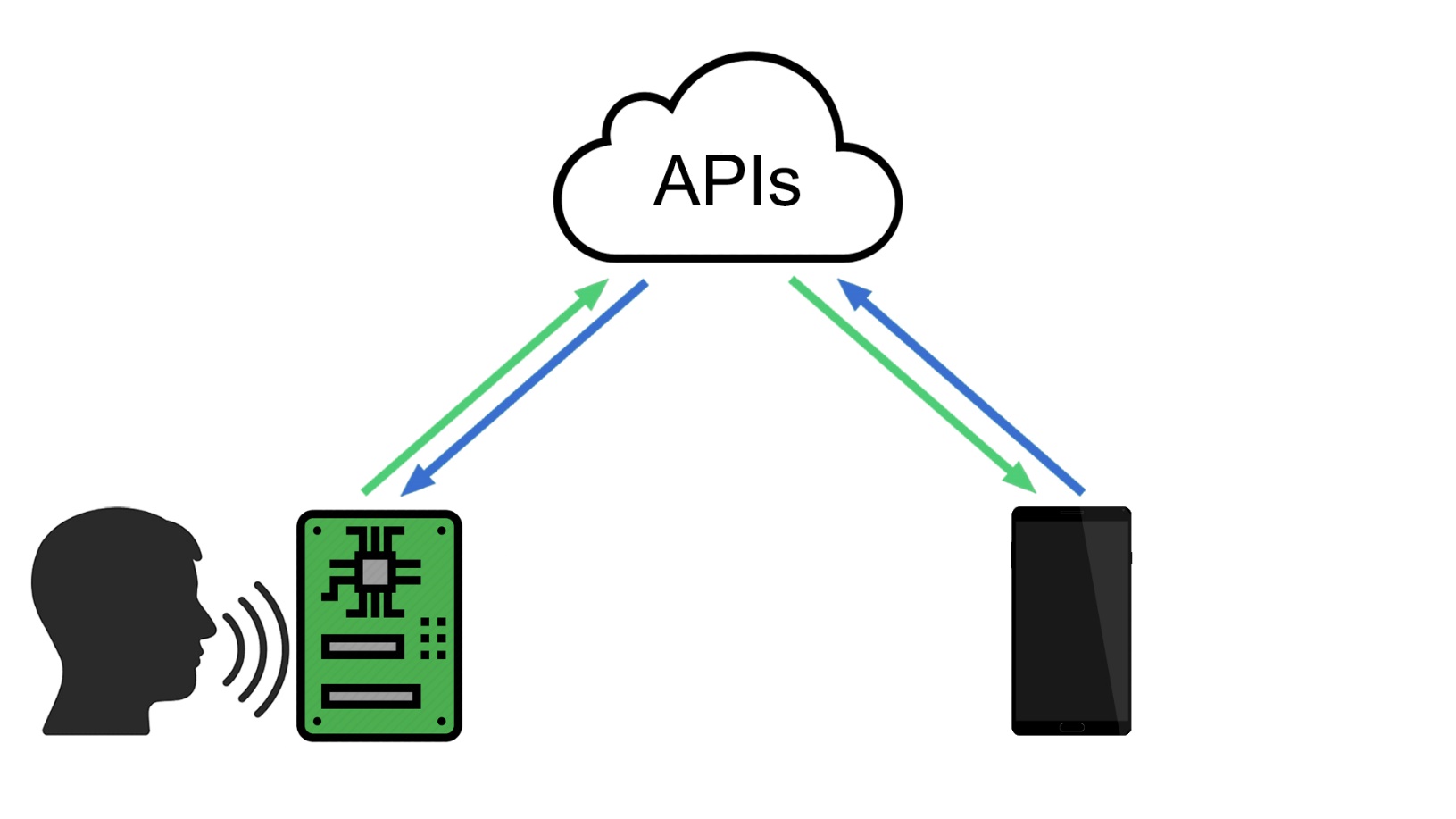


Figura : Schema

1. **Metodi e strumenti utilizzati**

Per la realizzazione di questo progetto sono stati utilizzati i seguenti strumenti:

* Raspberry Pi 3 Model B
* Python
* APIs
* Visual Studio Code
* Flutter con annesso linguaggio Dart
* Firebase Cloud-Messaging
* Android Emulator

Vediamoli in ordine, nel dettaglio.

Il Raspberry Pi è un computer *low cost* delle dimensioni di una carta di credito, che si collega a monitor o TV ed a mouse e tastiera standard; è capace di eseguire azioni che ci si può aspettare da un desktop pc, come navigazione sul Web, riproduzione di video in HD, creazione di fogli di calcolo, elaborazione di testi e giochi. Inoltre, il Raspberry Pi ha l’abilità di interagire con il mondo esterno ed è stato usato per tantissime applicazioni, che vanno da stazioni meteorologiche a sistemi di sorveglianza con telecamere ad infrarossi.

Il Raspberry Pi 3 Model B è il primo modello della terza generazione Raspberry Pi. Rimpiazza il Raspberry Pi 2 Model B nel Febbraio 2016. Come tutti i Raspberry Pi monta un Processore ARM e si basa su sistema operativo Raspbian, una variante di Linux.

Immagine che contiene testo, elettronico, circuito

Descrizione generata automaticamente

Figura : Raspberry Pi 3 Model B

Di seguito le sue Specifiche:

* Processore 64bit Quad Core 1.2GHz Broadcom BCM2837
* 1GB Ram
* Embedded BCM43438 wireless LAN and Bluetooth Low Energy (BLE)
* 100 Base Ethernet
* 40 pin GPIO
* 4 porte USB 2
* Stereo Output e porta video
* Porta HDMI
* Porta CSI per videocamera
* Porta DSI display port per connettere un display touchscreen
* Porta Micro SD per Sistema Operativo e Storage
* Porta Micro USB di alimentazione fino a 2.5A

Il programma che gestisce il “cuore” dell’assistente virtuale implementato sul Raspberry Pi è stato scritto in Python, un linguaggio di programmazione *object oriented* di più ad alto livello rispetto alla maggior parte degli altri linguaggi. Le sue caratteristiche più immediatamente riconoscibili sono le variabili non tipizzate e l’uso dell’indentazione per rappresentare le relazioni di annidamento al posto delle più comuni parentesi. Qui di seguito un esempio per chiarire meglio questi concetti.

![Immagine che contiene testo

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdhYnJpAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM1MwAAkpIAAgAAAAM1MwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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![Immagine che contiene testo

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdhYnJpAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM4MwAAkpIAAgAAAAM4MwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figura : Esempio variabili non tipizzate ed indentazione

L’operazione di riconoscimento vocale è stata effettuata grazie al package SpeechRecognition. Questa libreria supporta diversi engine e APIs online ed offline, tra cui Microsoft Bing Voice Recognition, IBM Speech to Text ed il servizio usato per questo progetto, Google Cloud Speech API.

Measurify è stata progettata e sviluppata da Elios Lab dell’Università degli Studi di Genova: è una cloud-base API, astratta e measurement-oriented. Sviluppata per la gestione di smart device in ecosistemi IoT, si focalizza sul concetto di misura, essendo questo tipo di dato molto comune nell’Iot, che rende più semplice ed efficiente il processo di astrazione necessario per indirizzare svariati domini e contesti operativi.

Measurify.è stata concepita per rappresentare un contesto applicativo e i suoi elementi come “oggetti” software correlati. Questi oggetti vengono modellati come risorse, ciascuna con propri modelli e funzionalità, accessibili attraverso una serie di interfacce restful API.

I concetti principali di questa API sono elementi comuni nell’ambiente IoT, quali:

* Thing, che rappresenta il soggetto della Misura;
* Feature, che descrive la quantità misurata dal Device (quantità tipicamente fisica);
* Device, lo strumento che effettua la misura della Feature per una specifica Thing;
* Measurement, che rappresenta il valore della Feature, misurata dal Device per una specifica Thing.

La figura sottostante mostra le relazioni tra risorse, evidenziando il ruolo centrale del concetto di misura.

Immagine che contiene testo

Descrizione generata automaticamente

Figura : Esempio applicativo. Collezione informazioni meteo.

Il concetto di Measurement astrae i Values inviati e recuperati dal Cloud; la sua struttura deve corrispondere al tipo di Feature misurata e, come si può notare dall’esempio, ogni misura è un vettore di samples. Ogni sample quindi può essere uno scalare (es.: temperatura), un vettore (es.: orientazione nello spazio), o un tensore di numeri (es.: dati generali multidimensionali).

La risorsa Feature è usata per convalidare l’array values di ciascuna misura ricevuta. Questo è mostrato nella figura 4, dove gli attributi “type” e “dimension” (0 per scalari, 1 per vettori, 2 per tensori), della risorsa Feature devono corrispondere al contenuto dell’array Values di Samples.

Si è poi passati alla realizzazione della applicazione Android. La App è stata realizzata attraverso l’editor di codice Visual Studio Code e testata su Android Emulator, un tool dell’IDE Android Studio.



Figura : Ambienti di sviluppo utilizzati.

Il primo è un editor di codice gratuito, ottimizzato per costruire e “debuggare” moderne applicazioni web e cloud. Sviluppato da Microsoft per Windows, Linux e macOS, include il supporto per debugging, comandi Git integrati, Syntax highlighting, IntelliSense, Snippet e refactoring del codice. Può essere usato con vari linguaggi di programmazione, i più notevoli tra i quali sono la famiglia di linguaggi C, HTML, JAVA, PhP, Ruby. Aspetto assai rilevante è il fatto che Visual Studio Code possa essere ampliato attraverso dei Plugin, disponibili attraverso un databse centrale. VS Code viene quindi fatto interagire con altri programmi, per ampliarne ed estenderne le funzionalità originarie. Per lo scopo di questa tesi sono stati utilizzati Flutter e Firebase Cloud Messaging (FCM).

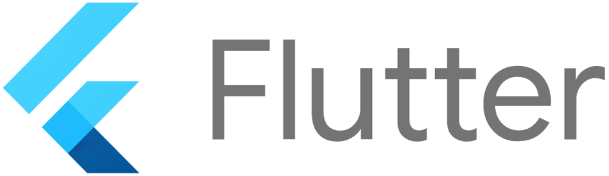
Flutter è un framework finalizzato allo sviluppo di app per diverse piattaforme, ideato da Google e pubblicato ufficialmente come progetto open source a Dicembre del 2018. Offre una vasta serie di librerie di elementi di Interfaccia Utente (UI) standard, di Android e iOS, ma è adatto anche per lo sviluppo di applicazioni Web o Desktop tradizionali.

Figura : Framework utilizzato

Le Applicazioni sviluppate con Flutter hanno l’aspetto delle app tipiche del sistema a cui sono destinate e si comportano come queste ultime, evitando al programmatore di prestare attenzione alle peculiarità dei sistemi diversi a cui il progetto è destinato. Infatti Flutter viene utilizzato in primo luogo per sviluppare Applicazioni Android e iOS, senza che sia necessario scrivere un codebase differente per ciascuna di queste piattaforme. Utilizzando lo stesso codebase è possibile creare anche web app per browser, nonché programmi nativi per Windows, Linux e macOS. Google stessa utilizza Flutter, anche per diversi moduli dell’Assistente Google e per l’interfaccia utente dell’hub di Google Home.

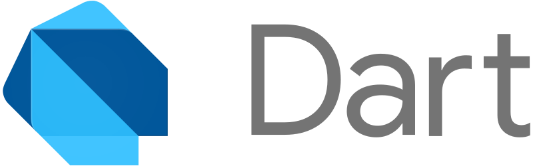
L’SDK di Flutter si basa sul linguaggio di programmazione Dart, anch’esso sviluppato da Google, destinato a soppiantare il classico JavaScript e che, come il noto linguaggio di scripting, funziona come web app, direttamente sul browser. Su un server, i programmi Dart possono essere eseguiti direttamente, mentre sul browser vengono convertiti in JavaScript mediante il transcompiler Dart2js.

Figura : Linguaggio di Flutter

L’idea centrale dietro il funzionamento di Flutter sono i Widgets. Essendo tutto un Widget, Flutter applica a tutto la strategia della programmazione *object oriented*, includendo l’interfaccia utente: l’interfaccia di un programma è così composta da vari widget, che possono essere nidificati gli uni negli altri. Ogni pulsante e testo visualizzato è un widget contenente diverse caratteristiche che possono essere modificate (es. dimensioni, bordi, colore, etc.). I widget possono influenzarsi a vicenda e reagire, tramite funzioni integrate, a cambiamenti di stato dall’esterno.

Per tutti gli elementi principali dell’interfaccia utente vengono forniti in dotazione i rispettivi widget che soddisfano i requisiti di progettazione di Android e iOS e/o delle più comuni applicazioni web. Se necessario, i widget possono essere ampliati con funzioni aggiuntive.

Altrimenti, è possibile creare widget personalizzati che possono essere combinati perfettamente con quelli esistenti.

Rispetto agli strumenti degli altri SDK (Software Development Kit), i widget offrono molta più flessibilità, ma hanno lo svantaggio di essere tutti situati nel codice sorgente del programma, che risulta pertanto essere fortemente nidificato e intricato.

Un semplice progetto come “Hello World” mostra la struttura fondamentale di un’app con un widget e una semplice funzione void Main che avvia il programma.

Immagine che contiene testo

Descrizione generata automaticamente

Figura : Esempio Flutter "Hello World"

Su uno Smartphone, o nell’emulatore, il programma mostra nella parte superiore la barra di titolo “Welcome to Flutter”, indicata nell’elemento AppBar() del widget. Nella parte di schermo sottostante, che in Flutter viene denominata body, viene visualizzata in questo caso la scritta “Hello World”.

Ogni SDK e ogni linguaggio di programmazione presenta vantaggi e svantaggi. Nel complesso, si può però dire che i vantaggi che Flutter offre rispetto a sistemi analoghi battono nettamente gli svantaggi.

I vantaggi consistono in:

* Un codebase per tutte le principali piattaforme di destinazione.
* Linguaggio di programmazione facile da apprendere.
* Il principio del “tutto è un widget”, che offre innumerevoli possibilità.
* Esecuzione performante delle app native su smartphone.
* Ricche librerie con elementi per interfacce utenti predefinite.
* L’hot reload, che permette di aggiornare istantaneamente l’interfaccia utente mentre si modifica il codice, strumento che accelera quindi l’attività di test durante lo sviluppo.

Svantaggi:

* Il codice risulta intricato a causa dell’integrazione dei widgets.
* L’aggiornamento dei requisiti di programmazione nei sistemi operativi richiede l’aggiornamento dei moduli di Flutter e, poiché i moduli sono integrati come elementi nel programma, anche quest’ultimo deve essere ricompilato e reinstallato sui dispositivi.
* Il linguaggio è ancora nuovo e poco diffuso.

Come citato sopra, FCM è stata la scelta per la parte di implementazione delle push notification. Firebase Cloud Messaging è una soluzione di messaggistica multipiattaforma che consente di inviare messaggi in modo sicuro, affidabile e senza alcun costo. Un messaggio può trasferire un payload fino a 4KB ad un’app client.

I messaggi possono essere di tre tipi:

* Messaggi di notifica: FCM visualizza automaticamente il messaggio ai dispositivi degli utenti finali per conto dell’app client. I messaggi di notifica hanno un set predefinito di chiavi visibili all’utente e un payload di dati facoltativo di coppie chiave-valore personalizzate. Vengono recapitati nella barra delle notifiche quando l’app è in background. Per le app in primo piano, i messaggi vengono gestiti da una funzione di callback.

![Immagine che contiene testo

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdhYnJpAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMwMwAAkpIAAgAAAAMwMwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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aWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APoOiiimIKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACqq6nYvqbacl3C16qeY1uHBdV9SOoHNWq4r4Xk3GhajfyjdcXWpTtJKer4OBz6DpTEdrRRRSGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAZPiXSLvW9Gks7DVJ9Mlbnzoep4Pynvj6EGsz4cXsF54Ktlt7SO0+yu9vJFESV3q2CQTzz15yea6muU8HaXf8Ahy71LSJ7RmsXuZLq1vEZSpVyPkYZ3Bh9MGn0F1OrooopDCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKK5jUtYv7fXdXghmCw2uk/aI12A7ZMtz056dOlbOi3MtzoFjc3bhppbdHkbAGWKgk0rmMasZScUXqKZ58Xz/AL1Pk+/8w+X6+lOVg6hkIZTyCDnNM1uLRTBNGZTGJEMg5KbhkfhT6BhRTI5opSRFIjleoVgcU8kKCWOAOpNAgopscscy7opFdemVbNEkiRLuldUX1Y4FAXHUUisrqGQhlPQg5BpHljjZVkkVS3Chmxn6UAOooBBzg5x1pjTRpIqPIiu33VLAE0DH0UVxWn6/qs9joEktwrPe6hLDMfLUbo134HTj7o6Um7GNSrGm0n1/zS/U7Wiiq0WpWU1/LYw3kEl3CA0sCyAugPQleopmxZoorlPDWqXviHxFq92948Vjp901nDZoq7XKj5nckZJyeACAKBHV0UUUDCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACua+In/ACIOpf7i/wDoYrpayPFekz674ZvNOtHjSadQFaUkKMMDzgE9vSlLYxxEXKjKK3aZyDeF9H/4TjSLb7IPIutPaSePe2JWGMFueeearRalPoHw51hNOd0MepyWtuQcmJSwHHvjOPeuxOh3J8U6ZqW+LybSzeCRcncWOORxjHHrVO38HGbw9q2l6nImL68kuI3hJJjyQVPIHII6VHK+h5zw005ezVnr+S/U5K7s9LXRNmleF/EUOqxDfDfGycOZeu5mz0J/nXVeIINZ1rwFa+RDKLqRYnu7YHy3kXHzoM9CfSlitPHCWi2JvNJ2qNn27a5l2/3tmNu79K1Nb0rUL/S4U07VJLW+t2WRZskLKR1DqvVT6UJaFU6L5JWT1VrWS/pnIWsHhaXVtPWwiu/DGqRSAxpPA0bTDuhydrZ+uTW1460+7vRp0gtJ9Q02CUte2du2HlGPlIGRuwe1R32heJPETWlvr7aXb2cE6zObMyNI5XsNwwoNa2vabq1xc2t7oOoCC4tiQ1vOzeROp7MB3HY0W0HGk3TnHl002Vr/AC2/zOf0GLw3L4pgm0KSfR71EYT6bLC0RmXHGVPGR14zUviJNEl8VD+0oL7XLpIRs023i8xLcH+MjIAJ9z6e1W4tC1vVPEVhqfiF7CFNP3NDFZb2Z2Ix8zMBx7Ci90PXbHxNd6v4bmsHF8iLPDfb/lKjAKlaLO2wuSXs7cml+3S2/Lfv/nYzPBciWvjPVrGxs7vTrFrdJ1s7oYMb5wSBk4B+tN8LaFYeLIb7W/EEH22e4uZI0EjHEManAVQDxWtoXh/WrTxZdaxrF3aXH2q2EbCAMvlsCCFAI5UAdSc1UstM1rSL7UE8J3ulXNhLOzvFdO262lP3h8nb2P8A+sS7kwptKPPG6Tlpp8tP6sVvCj/2Hpfix4S8osruUp5jbidqcZPfpWJpS6Tf6N9o1vw3r2qX94C8t6lmzgk9NjbuAOMYrofh/bm7sfEAvJBdx3N/IjzBcLN8oDEe1WLDR/Ffh+2OnaPcaZd2KE/Z3vTIskSk/dO0YIH+fSlbRERpylCDt7tn0v17enUveBZtRl8LRLq8VzHPC7Rj7UhSRkB+UkH2OPwroqqaXBeW2nRx6ndi8uhkyShAgJJ6ADsOlW60Wx6tGLjTjF9uoVl2vhvSbLX7rWra0CahdLtmmDsdw47ZwOg6CtSsKxtfEcfi6/uL+/tpdEdALW2RMSRtxyTt+vc9e1UaF3XNRudK0mW7stNm1KZPu28BAZvz/wDrmsD4a28a+G579bmOebUbuW5nEQIETk8x4IByMdxXX1xPw9/0XUPE+nTttuItVkm8o9QjgFWA9DR0DqdtRRRSGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRQTgZoAKKxbbxVYXcOmyRxzgalM8MO5Rwy5zu54Hyn1raJwMnpRe5EZxmrxYUUiSJIgaNldT0KnINLQWFFFZ1trlrda/d6RGsouLSNZJGKjaQ3TBzn9KCXJRtfqaNYWo+C9A1S7e6u9PBmk/1jRyPHv/AN4KRn8a3aKLJinThNWmrkFlZW2nWcdrYwpBBGMJGgwBU9FFBSSSsgoorEt/FdhcwWEscc4W/uWtosqMhlznPPT5TRcmU4xdmzbooooLCqzabZPqSag1pCb1EKLcbBvCntu64qPV9Wg0XT2vLtZGjV1QiMAnLEAdSO5ottWgutWvdOjWQTWYQyFgNp3jIxz7UXIc4qXK3r/X+RdorPi1q2m8QT6OqyfaYIVmZiBtKk4GDnOfwrQoHGSlsFFZ2k63a6xJeparKpsrg28nmKBlh6YJ4rRoCMlJXiFFc/J488MxXxtH1aEShthIVigP++Bt/Wti8v7aw0+S9u5QltGu9pACwA9eOtK6JjVpyu4yTtvqWKK5628feGLudYYdXhDt08xWQfmwArU1LWLDSI4ZNRuVgSeQRRsQSCx6Djp9TRdCjWpyXMpK3qXaKrajqNppVi95qEvk28eNz7ScZOBwOepqwrB1DKcgjINM0ur2Foorn7zx34b0+9ltLzU1jnhYpInlSHaR2yFxRdLcmdSFNXm0vU6CisCx8deHNSvorOy1JZZ5m2onlONx+pXFb9CaewQqQqK8Gn6BRRXP3Hjrw1a3zWk+rRCVW2thWZQfQsBtH50XS3CdSEPjaXqdBRVW91Sz0/TW1C7nVLRVDGUAsMHoeM561P5yeR52793t37sdsZzQPmV7XH0VTtdWsb3Sl1K3uUNmylhM2UUAdSc4x0rOsfG3h3Ub5bOz1ON53OEVkZQx9ASAD+BpXRLq01a8lrtrubtFFFM0CiqGra7pmhQLNq12lsjnCg5LN9FGSfwFN0jxDpWvRu+k3iXHln51AKsv1UgEflRdbGftIc3JdX7dTRorAvvHXhzTb6WzvdSWKeFtrp5TnafqFxVvR/Euka+0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+G/4JoUUUUzYKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK4ez1Wx074p63Hf3UduZ4IBGZWCqxC8jJ4zzXcVTuNH0y7aVrrT7WZpseYZIVYvjpkkc47UmrmFanKfK47p3/Bo5axuItb+KFxeaZKs1raaf5Ek8ZyjOzZABHX/61N8C6nZaPo9zpGqXUNne2VzJ5qTyBCwJyGGeox3rsLOxtNPg8mwtobaLOdkMYQZ9cCob3RdL1KVZNQ061upFGA80KuQPTJFKz3MY4ecWpprm19Nf+GRx+h28mtL4uvrDIttSJitWxgSFUKlh7EmrHhfxHpNt4Dhhu72C1ns4DDNDK4V1Zcj7vU5rs4oo4IlihRY40GFRBgKPQCqcmh6VLffbJdMs3us585oFL59c4zmjlaFHDzhZwavrf5u/5nOfDy3ivPhzBbzqHim81HU9wWINc9ZQ3d9dWvga7V2j0+7aW4kPR7dcNGPxLY/KvQ7gf2PpL/2PpiymPlLS32xBsnnHYetZvhjSb2G5vtY1tFj1G/YZiVtwgjX7qZ7++KXLsjOWHdqdLsrPtb/gtHQgYGBwKKKKs9IKzNF8R6V4hFydHuxc/ZZPKlwjLtb8QM/UcVp1Ws9NsdO837BZwWvnPvk8mMJvb1OOpoAs0UUUAcP4O1Gz0SfWdK1a6itLqO+km/fuE8xGwQwJ69Kl8DXcF/r3ie5tJBJDJeIUcdGG08iptag1KTVJWuvCWn65CP8Aj2mEkaug/uv5g9c8jirfhDRLvS4b271NY47vUJ/OeGI5WEAYVAfYVCvex5lOM1UhDpG/Rrv8vuKPhH/kcfFf/X1H/wCgmtDx1Y3Go+CtRt7NWeUoGCL1bawJA/AVtQ2dtbzSzQW8UUs53SuiANIfViOv41NTtpY6o0P3LpN73/Fs83srbQbzw8lzN421eKEw4lgfUVBTjlNm3PtjvWjrF5/wjngLTI9Aupo7SSSOL7bMmXiiYk7yCBz+FdM/h7RpLs3Umk2LTltxla3QsT65x196vTQRXELQ3ESSxOMMjqGVh6EGlymMcNJRa0Tta6v/AJnlni5dHt9MtktPE95qly9zGRFJqHnrjdyxUcD2r0TxFG8/hjU44lLO9rIFA7naaWPw7osULwx6RYrHIQXQWyYbHTIxzWiBgYHApqJVLDuPNe3vLp8zlvBOtaY/hPSbYahbfaBCsXkmVQ+8cbduc5rqaz4/D+jxXn2uLSrJLgNuEq26hg3rnHX3rQpq6RvRjOEFGfQRvun6V5XB/wAkrs/+wuP/AEca9VqqNK08WotRYWwt1fzBF5K7A2c7sYxnPOaTVzOvQdV6Po199v8AI54MU+KV0yruI0lSAO/7ysHSdQs9Y0yTU/Efiy7srre4ezgvfs4hAPChByTj65r0QWtuLs3QgjFwU2GbYN5XrjPXHtVV9C0mS9+2SaZZtc7t3nGBS+fXOM596XKzOWHm3dPq9Nev+Rz3wwZW8HZRiy/apcFjz17+9QaLf2ml/EHxMmo3UNq0zQyR+c4QOoXkgmuxtrO2skZLO2ht1di7LFGFDMepOO/vUF9o2manIr6jp9rdOowrTQq5A9MkU7OyGsPONOCT1j/lY57x7/pfha2v7PF1b211FdOYjuDRg8kY6jmr+oeMNCg0pbkXUV8JtojtoGV5JST0C56/WtyKCG3t1ggiSKFBtWNFAVR6ACqdtoOkWd19ptNLs4J/+ekcCqw/ECizuXKnU5nKLWqV/wDgGB4gOfHPhQ7SnM/yn+H5BxTvG3/IR8Nf9hRP5GunktLea4inmt4pJoc+VIyAtHnrg9R+FE9pb3LRNc28UzQvvjMiBijeoz0PvRYUqDamr7tP7rf5FTXobS50C9h1Kc29pJCyyyggbF7nmpdIit4NGs4rGXzrZIUWKTIO9QODke1WJ4IrmB4bmJJYpBtdHUMrD0INLFFHBCkUEaxxoAqogwFA7AU+pvy+/wA3kOooopmgUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFBG5SD0IxQAUVx3hq5m0/xxrXhz7RPPZwRRXVt58hkaIN95NzZJGcYya7GmIKKKKQwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiigkAEk4A6k0AcBrT3dp8UY5PC0SXepT2QF/bzfLEsIb5XL5yGzxgA5Fd+M4GeveuI8MMurfEbX9csT5un+TFaRzrykrry209wMYyK7emxIKKKKQwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKwtV8QzaNr1jbXton9nX8ggiukl+ZJiMhWQjoexBPvW7QAUUUUAIqqihUUKo6ADAFLRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHIfEmyubjQbK7tYnmGnX8N3Kka5YxqfmIHfAOa6LSdYsNc09b3SblLm3Y4Drnr3BB6GuY+Jzu2i6ZZKT5V9qkEEyA/wCsQnJX6cV2FvbQWcCwWkMcESjCpGoVR+Ap9BdSSiiikMKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiq1/qdjpcSSaldw2scjiNXmcKCx6DJqyDkZHIoAKKKKAMi88O2+oeILXVL64nmFn81takgRRv0L4AyW+p4rXoooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigCjrltHeaBf288YlSS3cFCM5+U1j/Dm6lvPh3pEs7l3EGwsTyQpKj9BXRXEqwW0s0nKRoWb6AZriPhpYTy6e2ux3TW1jqDSPDpUZJhgBbqCSTk4zxgc9KfQXU7uiiikMKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAyvEst8mhXEWk2L3t3cKYY1DqqoWBG5ixHA9smjwvo3/AAj3hew0tnEj20QV2HQt1OPbJNatFAgooooGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB//9k=)

Figura : JSON di un messaggio di notifica

* Messaggi di dati: la app client è responsabile dell’elaborazione dei messaggi di dati. I messaggi di dati hanno solo coppie chiave-valore personalizzate, senza nomi di chiavi riservate. L’esempio seguente mostra l’utilizzo del campo “data” comune, che viene interpretato dai client su tutte le piattaforme che ricevono il messaggio. Su ogni piattaforma, la app client riceve il payload dei dati in una funzione di callback.

![Immagine che contiene testo

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdhYnJpAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMyMAAAkpIAAgAAAAMyMAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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UUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFQ3tnBqNjNaXkfmQTIUkTJG4Htkc1NRQJpNWZVj020hv/tscWLjyRBv3H7gOQMZx179a4zxDq9nonxRsLzUpTFANPZSwRm5LHHABNd7XK3Vnct8U7G7W3lNsunujTBDsDZPBbpn2qZeRyYmL5YqGmq/Mzk1CLxj420q80OKU2mll2nvHjKBiw4jGeT/9era3WreKPEGo2+n6k2madp0nkFoY1aSaTvy3QCpTaXWifED7VaW8sun6um258qMsIZl6OcdAfX61Vt5Lvwf4g1TzdNvL3TtRm+0xTWcRlMbn7yso5H1qfU5veX8T+b3radNPlsXfD+rahb69faBrtwt1NbRCeG6CBDLEf7wHGRVHSpNd8YQz6pBrL6VZmRktIYIVYkKcbnJ65ParOgWd5qvia/8AEN/ZzWMM0AtbaCcbZCgOSzDtk9qpaJfXngyzl0bUNH1G7jhkdrW4soDKsqE5AOOh56Gj1Gm7R52+TXv8r9e5HP4q1WPwZrYnlSPV9IlELzRoMPlhh8EY5GaGHiP/AISiz0z/AISOTy9RtDO7i2TMRHZB29OarXeiapL4K8RX1zZSi/1eVZVs41LuiBhtGB3xmt1rO5/4TrRJ/s8vkxadIkkmw7UbjgnoD7UtTNKpJrmb6dWtOZ/pa5Y8F397f6Rcx6pP9pntLuW2M20KXCngkCtKHQdNt0s0httq2Ls9uPMY7C2cnrz1PXNZfgu1uLW11QXUEkJk1KZ0EiFdykjBGeoPrXSVa21O+hHmpR59X5hRRRVHSB5HpWH4X0G+0G3u49R1u41dp5zKjTg5iU/wjJP9B7VuHgetYfhfXr7Xre7fUdEuNJaCcxIk+f3q/wB4ZA/qPemI3KKKKQynNpFjcXNxPNBuluYPs8rb2G6Pn5evHU8jmllt4rTRnt7ddkUUBRFyTgBcAc1bqK7UtYzqoJJjYAAdeKCHGKTaR574I8a6HpPg2zsru6k+1R78wpbyMSSxIAIXHf1qfTLy78KeDNW1iezaCS8vGltLOUYKbyAoI7euPatz4f2txZeCLGC8gkt5l37o5UKsPnPUHmrPjDRptd8NT2loQLhSssOTgFlOQPx6Vmk7XPOp0qv1eM76qOit5ev+Ri3ll4q0vRW1f+3zc3UCedNZvboIWUDJQYGRgd+/tWve629x4Cn1nT2MMjWRnjOAdjbc9+Dg1j3/AIl1LU9Dk0y28O6nHqdzGYG82DbDGSMFvM6Y64rSvNHk0/4bz6Tbq08sVg0QEakl229h15NP0Ki/i9m3bl633+fXuZmkWfirX9KstSuPEQsFkjVlggtVfcMfeZiRyeuOgqx8QbG+l8N39zDqskNtHb4ktBChEnPUseR+HpW14Xhlt/CmmQzxvFKlsiujqVZTjoQelL4n0+bVfC+oWVsMzTQMqAnGT1Aot7pfsb4d7ttd3vYzPCml6pDp+nXM+uzXFsbZCLRreNVAK8DcBnin6bqt7P8AEHWNOlmLWlvbxPFHtHykgZOcZqHwx4hd7XT9KuNE1a2njiWKSSW1IiQqvUt6HFVbxrnw74+u9VfTry9stQtkTfZwmRo3XHBA7e9HREKUY04Sg3ZPXft/wxpQ6neN8RrnTWmzZpp6zLFtHDlsZzjPSsyyn1vxbqeoT2ertpenWc7W8CQwq7SsvVmLdvanaI1/ffES61S40u6sbWXT1SIzpgnD98cBuvy5ziodMubvwZqGpWFzpOoXlpcXLXNrPZQeaMN1VvQikTzOVnJvlu+/y87F/wAIajq1zqGuWmsXSXUljOscZRAi/dPp68HvWdcy6oizSat40s9K1DJMdkjReXGOwO7ls+tO8Gy3N7qHiuTyjaXMtwNsbkExsUOM47jjNZuhMulaT/Z114NvbrWMuJJ2tVaOZyThjKe3vRfQz526cU2/ta699NtbnY+ENZm17wva390qiZwyybOhKkjI+uKzb7/krOl/9g6X/wBCNJ4H+0aR4BX7bYXazW7Ss1sISJG+YnCqcZz2rHudfuJvHFnrK+GvEAt4LR4WU2B3licjAzjH40X0VzWVX9zT53r7r/zN74gWck/hdru3H+kadKl3ER1G08/pmqHiS6TxHc+GtMg+aK/kW8mA/wCeSDdg/n+ldTazprOj75bW4tkuEZWguo9kig5BBXtXG+AdC1Gz1q8l1aKRF0+P7DZtIhG9N5YsM9R05FN7+pVaLlUSjtO1/lr+K0NXxVpeorrWma/pNst9Jp4dXtCwUurDqpPcVFDrGg+LNStLXUILqx1OzlE0NtdKYpAw9PUe3t0q7r91rel6ta6hYQy3+mBCl1ZwIDID2de5+mf8axdTluvGOs6Qtho9/ZJY3K3Et5eweVtUfwrnk5oe5NRqM5cvVq6a321X9dC5o/8AyVXX/wDr1h/kKNWjXT/idolzbYR7+KWC4A48wKMgn/Paqkl5c6H8RdXvpNG1S8t7iCJI3s7QyAkAZ54FXtMstS1zxVHr+q2bWFtaRNHZW0pHmEt1dgOnHb/JXkTF8y9mt+e/p71/yM9/EEuu61fxjxJb6FY2UpgjXdGJZ2HVjv6Ln061peEtfuL6bU9MvL2G/msCCl5Bt2zIwyCQOMjocVippVv4c1vUI9Y8MnV7O7na4t7uGyW4ZN3VGGMjFdJ4cWCWK7ntPDa6LE2FjLQrFLMMdWRRxg9MmhXuFF1HUXM9bu61/wCGXkzE8Or4l8UeHY72XxCbP5nWPybdCXIYjc5P5YGOlQy+KtYb4dzXhnWLUrW9FpJMsYw+HAJ2njkH/wDVW78P7W4svB1tDeQS28qySExyoVYZc44NcvNpWonwJq1uLC6M0msmRIxC25k8xTuAxkjHelrYzaqRoxkm7uLvq97I0fK8Rt4uk0T/AISSXypbMXXnfZk3Kd23avYDP6fnVvR9U17U/ASz2s1u2pCV4WuZwFVVViC+OmcDp0q4trcf8LLF15Ev2f8Asvy/O2HZu8zO3PTOO1cy2j6q/wAOIoFsbh/K1FprmzKlJJovMJwB1OeD709UV79Nyav9rq/K3fzJr/XLjQJLW6tfF8GtZnSO5s2MRLAnBZdvK4rpPHWp3mj+Ebm806XybhGQK+0HqwB68VyPiGRdV0eKDQfB19arFPG8kjWIiZQD0VVyW98dK6j4g2txfeCrmGyt5biVmjIjiQsx+cHoOaNbMIyn7Oryvppv57X1EsNK8S3N1bajqPiARISsj2EFsuwL/c35yfrWRqmtWeg/E68vtQk2RJpSgAfedt/Cgdya7u3BW2iBGCEAIPbiuMv/AA5FrHxMmk1PT3nsf7NCrK6Hyw+ccHpuwT9OtNrTQ2r0pRhH2e91u2zZ8NtrV6smp61L5MdyM29gijEKdizYyWP1x/TVk0+1m1CO+kizcRRtEj7jwrYyMZx2Fc74Y/tPQ9Rk8O6hDcXNnGu6xvxGSuz/AJ5uw4BHbP8AhXV01sdFC0qaUt+t+/8AWxXsLG20yxjs7KPyoIhhE3E45z1PPerFFFUdCSSsgooooGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUVVs9TsdQedLG7huHt3McyxuGMbDsR2NWqACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK5+90LWTfzz6R4jmtI7g7mhnt1nVD0+TJG0e3SugootcidOM1Z/m1+RleH9Bi0CykjWaS5uJ5DLcXEn3pXPU+30rVooo2HGMYR5Y7BRRRQUFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHFXp+yfGfTfJAjF9psizEDHmFWyM+pFdrXC+N4m1jxdoWh2T/AGO+YSXK6ihPmW6KMEJgjJboc5HtXa20TwWsUUkzzuiBWlfG5yB1OOMmmxIlooopDCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA5S20u/1L4inXby0aztLC2a1tVkZS87FvmfAJwuOmea6uiimIKKKKQwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDlvHWoX+g6UmvWF46JZOnn2jKpjnjZgD2yGGeCD+FdPHIJYkkX7rqGH41h+ONOt9V8E6na3d0lpE0JYzyfdQqdwJ9simeC9avNb0GKW+0yWxKIqo7/dnGPvqCAQD15A60+gup0NFFFIYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHHfFSQf8ACA3Vorfv7ySKCCMH5pGLjgDvwDXWWsZhs4Y2GCkaqQPYVHNptlcX8N7PaQyXVuCIpnQFoweuD2qzTF1CiiikMKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooArahdS2VhLcQWkt48YyIISodvXG4gfrUWjavaa7pMOoaezNDMDgOuGUg4KkdiCMVerhvhvPHZxaxpF1Kkd9Dqc7G3ZgG2MQQwHcH1pi6nc0UUUhhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFcH4EtIdd1DUvEeqR/aNRj1Ca3t5HJIgjXgKg6Dqfrmuz1GO8m0+WPTZ47a5YYSWWMuqe+0EZ496qeHNBg8N6JFp1s7S7SXklf70jscsx+ppi6mpRRRSGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAH//Z)

Figura : JSON di un messaggio di dati

* Messaggi di notifica con payload dei dati opzionale: sia a livello di programmazione che tramite la console Firebase, si possono inviare messaggi di notifica che contengono un payload opzionale di coppie chiave-valore personalizzate.

![Immagine che contiene testo

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdhYnJpAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM4NAAAkpIAAgAAAAM4NAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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RRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRTJporeF5Z5EijQZZ3YBVHqSelAD6KiW6t3mEKTxNKUEgQOCxX+9j096loFdMKKKKBhRRRQAUUkkiRRtJK6oiglmY4AHqTTYZ4rmFZreVJYnGVeNgysPYigV1ew+iiq6ahZyLEY7uBhOxWIrKD5hHULzyRjtQF0tyxRRRQMKyLPw7Bp3iC71SxuJ4Re/Nc2oKmKR+m/BGQ30ODWvRQAUUUUAFFQveW0crxyXESyRp5jqzgFU/vEdh71JHIk0SyQuskbgMrqchh6g0Cuh1FFFAwooooAKKKKACiiigAooqJrq3SYwvPEsoQyFC4DBf72PT3oFdIlopkM0VxCksEiSxuMq6MCrD1BHWn0DCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACs7xBp8ureHb6wt2RZbiFo0MhIUEjvgGtGigmUVKLi+piWeiTW3iVNQZo/JTTktAoY7twbJPTpj3rj/ABXqF3pHxMi1K1DPDaWSPdID1iLlW49sg/hXpdcfJBHdfFW4gnQPFLo+x1PQgvgioktNDhxNK0Ixg7XkvvF12dJ/G3hOWB98UhmZWU8MCgINL4u1+1is77TtU0XWJrLYBLc20QEeODw+RXMWH2nTvH2ieH7vc39mzTfZ5T/HC6ZT8sEV23jn/kRdW/64H+YpXumYxnKpSqyWjvr8oq6NbTDCdJtDaqywmBDGHOWC7RjPvisW58YxDULi00vTL7VGtTid7VAUQ/3ckjLewrV0b/kXrDHX7LH/AOgCue+G7ImgXVs3y3cF7KLlD94MW4J/D+VV2R1ynJuEIu11+Vi9Prdpr3grUruxLgC3lSSORdrxsFOVYdjVDQdds9A+HGk3F6WYvCEihjG6SVieFUdzVue40i58O+IX0UISFmW5eNCA0uw5Oeh+orh9BhvNBt9E8S6xtvtN8ryQApJsVJwrgfzOO/0qW2mclStOFSMt9N+i1Wp6xbyvcWiSPC8DSLkxSY3J7HBIzXMaf4Uu7S30COSSAnTbiWWbazfNu3Y28c/eHXFdVFKk0KSwurxuoZWU5DA9CKdV2uejKlGdm+n/AAH+gUUUUzUDwPWsPwvr19r1vdvqOiXGktBOYkSfP71f7wyB/Ue9blVrLUbLUlkbT7yC6WNyjmGQOFYdQcdDQIs0UUUDOe1Dw/c3esandxvCFu9N+yRhmOQ2WOTx05FS3Vo+neAZrRype305o2KnjIjxxW5Wd4h/5FnUv+vWX/0E0rHPKlGKlJdmee+Gtdn0n4fahYu268jCfZOeWE4G3H0JNbHw9ni0TwbqMmpTbY7O8lEshyfu4FQ6F4TGpx+FtZ3oIrazTzoyTmQqMocdDgk9ah0TVzo/gHXdR8lLh01GXCSDKliygE+2Tms1dbnl0eem4ynsou3pa9/0+RuN48jht47y80TVLbTpCMXckS7QD0ZgDkD3roL/AFGGw0ifUX3SQwxGU+XgllAzxXDeKLXWI/A91d6n4mjeKaEEW0dpGsb5wQit94/XrxW9qf8AyS6b/sFj/wBFiquzshWqXkpdFfW3n2ZDH4+hvFifSdF1XUInC75YLfKIT1XPcjvWtrWuNpHlKuk6jqHmg5+xQ79mPXkY60zweqp4M0kIoUfZUOAMckVs01extTVWVO7lq7dNjnfA8mmy+Hd+jQ3MNuZ5MpdNlw2ee5qbVvFMGnakmm2tpdajfsm8wWqg+WvqxJAFZ/w3/wCRWk/6/Jv/AEKo/DjLB8QvEsN0QLmYxSRburRbe3sOKSeiMYVJexpqOnN/lc2dE8SWutyz24hns722I861uU2uoPQ+496ivdDuLnxFPqCPEI5NNa0UEncHLZz06Vl5W4+LwazIb7PpxW6K9AS3yg+/SuwprXc2p/vYtT1s/wAjP0HT5NK8P2NhMVaS3hWNihJUkDnGa0KKj+0Qfafs/nR+ft3eVuG7HrjriqOiMVGKiuhJRRRQUFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFVBpdmNXOqCH/TDF5Jl3H7mc4xnHX2q3RQJpPco3GjafdatbanPbhry1BEMu4gqD1GAcHqetZ2peB/DusahJe6jp/nXEmN7+fIucDA4DAdBW/RSsjOVGnNWlFP5GLo/hDQ9Au2udJsfs8zJsZvOdsrnOMMxHak1PwdoWr3rXd7Y5ncbXkjleMuPfaRn8a26KLIXsaXLycqt2sU4dIsLbSTplvapFZshjMSZAIIweRzk+vWiHSbGDRxpcduv2IRmLyWJYbfTJ5q5RTsXyR7eRV03TbXSLBLLT42it487EMjPt/FiTVqiigpJRVkFFFFAwIyMHpWZonhzSvDkU8ejWgtkuJPNkAdm3N+JOPoK06KACiiigAqO4t4ru1lt7hd8UqFHXJGQRgjipKKBbkNlZwadYw2lnH5cEKBI0yTtA7ZPNVbXQdMs9PuLKC0UW1y7PNE7Fw5br1JrQoosLkjppsc1F8PPC8W8LpSsHUqQ8rtgH0y3H1HNbbaXaPpB0xos2Zi8nyy7fcxjGc56d81aopWREaNOHwxS+RDaWkNhZxWtonlwQoEjXJOAOgyeaoa14Y0jxC0LaxafaDCCI/3rpjPX7pHpWrRTsipQhKPLJXXY5yz+H/hmwvIru00zy54XDxt9olOCOhwWxV/V/Dek660b6naCWSL7kiuyOvtuUg49q1KKVkQqFJR5VFW9ChpGh6boVu0OlWqwK7bnOSzMfdjkmr9FFM0jFRVoqyCuXh0G7k+J1xr1wgjtYrBbWA7gTKS25jjsB05rqKKBhRRRQMKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArL8TXs+neF9RvLR9k8EDPG2AcED0PFalFBMk5RaTsc/Y6lfS+LI7KaUNB/ZaTsoUcyFsE5xn8Kra5rutxeLLbRNDi08tNbGcveb8DBIIyv09K6muC8Q3N/a/FGwk0qwF/cf2ewEJmEWRuOTuNQ9Ecdfmp017z1a9bGvY+ItTtddt9I8TWVvDNdqxtrm0kLRSEclcHkH610kkscK7pXVF9WOBXDaS994q8Z/aNZiisDobELYq29y7j75boR6YpdK0218XeJdavdcj+1RWVybS1t5CdkYA5OPU0JsmnXnay1u7K+mi3v879LndAhgCpyD0Ipkk0URAlkRC3TcwGa47QV/4R7xpqWhWjOdONqLyCEsW8k5wyjPY1W8KaBp/inSpdc8QwC+ur6VwPMY4iQMQFXnjpT5jRYiUmoxj72vXTT5HekgDJOBTPPi+f8Aep8n3/mHy/X0ry+8mmtvBPivRJJnmi0ydEt3dskRswIXPtirreF9H/4TjSLb7IPIutPaSePe2JWGMFueeeaXMZ/W5NpRj269W2u3dHou8NHuQhgRkEHINcZpmv6rcWvht5rhWa+upkuD5ajeq7sDpx0HSrPw9jFvpGoWsZPk2+ozxxKTnaoIwK6unurm0eatGM07f8Ov8rfMKKKKo6gqtZajZaksjafeQXSxuUcwyBwrDqDjoaskZGD0rM0Tw5pXhyKePRrQWyXEnmyAOzbm/EnH0FAGnRRRQBzGpaxf2+u6vBDMFhtdJ+0RrsB2yZbnpz06dK1dMvJ5fC9reXDB7hrRZXOMAttz0FaVQ3v/AB4XH/XJv5UrGChKLcnLucdomueM9b0eHVLW10VoJMkRF5UkOCRjuB09a6Hw5r0fiDTmnELW08MhhuIHOTG46jPf61x3gjVPEcHg2zg0zw7HdQjeI7p75EB+Y8lMZ4NT6ja3/hDwHfym5U6pqV0Gmmh4WNpCAdv0HeoTdrnBRrSjBVG21a7uvLpp/wAA70TRNKYxIhkHVAwyPwp5OBk8CuJ1XwLpFh4WmmsImg1C0hM8d6rkSGRRnJOe+P1q3c6hJqvwomvp/wDWzaczPx1bbyfzqrvqdntpJtTVna+//AOoeeKPb5kqJu+7uYDNVNZ1WLRtIub+dTItum8opG5h7ZrlPDPgjRtQ8O6dfatDJfXUkCOJJZnGwY+VQAQABVv4g6Jpt14av9SuLRHvILfEUpJyoB/+uaLu1yXVrOi6lktLrX/gHTWN7Hf2Nvcx/KJ41kCk8gEZxVjIzjIz6VzPhXwxo1npunalbWEcd4bZGMwJzllGe/vVXR/+Sq6//wBesP8AIUXehSrTUYc61k7b+V+x2GRnGefSmvLHFt8yRU3HA3NjNcrb/wDJXLz/ALBaf+h1m+HdFsfFt5q2r6/D9sf7W9tDHIx2wxr0AAPXmjmF9Yk3yxWt2t+x3wIOcHp1pjTxJII3lRXbopYAn8K43wPaR6frHie1hkcRQ3SKjSNuKjaccn0/pWPHaeGrq0ulj0bV/EEkjN5mqLBne2f4WLL09vSjm0I+tS5FKyu79ezt2/Q9Hu455bOWO0nFvOyERylA2w9jg9fpXJ2Fzr+n+OrTSdV1hdQgntXmOLVIsEHA6c1d+Ht3Pe+CbKS6kaSRd6bnOSQrEDP4VBff8lZ0v/sHS/8AoRpPVJhOXPCnVV1drr3/AAL3iHXbnRNS0kCOJrK8uPs87sDujJ+6Qc49eoqTxZrknh/QJLy3jSW5LrHDG+cM7HGOPbNR+NdNbVPCN7FEP30S+fER1DJ8wx+RH41z76gPFut+FoEIaJIf7RuR6MOAP++s0NtaCrVJwlKCertb56P7tzb1vxDe6dJp2m2NpHdaxfLkIzFYo8D5mPfHtVaPxDrej6tZ2niu1sfJvn8qG6sGfaj9lYNzz61e8R+HW1e4tb3T702OqWRJgm27gQeqsvcGs6HxDqum6paaf4x0+223MgS3vrU7oy/YFTyp9/0od7iqSnGo+aTS0s+nzFute8RXPi6+0jRIdMKWcaSFrvzAWDAcZX/Cr+i+JJbzVJdI1iyOn6nEnmCMPvSVP7yN/T/69Z2j/wDJVdf/AOvWH+Qp2v4HxI8NGL/W7Jw+P7m3v+OaLvcmM5pe05vtWt5XsdZJLHCu6V1QZxljinAgjI5FeWQ39nrOv6pea/oeq6wIrhre2S2tmlhgReMcEDceprd8Dm5guNXs0sNRs9KUiSzS+hZCmQdyjPbPvQpXZpTxfPNJLR3/AKen6nZvNFGoaSREBOAWYDNPJAGSQBXnngjwppOseEYrjVrdruR2kRfNkbES7zwgB+XnnPXmsuZ5T8K7y0lleRbPVBbxszchFkGBn8aObS5P1uSgpyjo1da9vkeqG4hCuTKmEOGO4fL9fSnghlBByD0Irz0eE9FPxENgbJfsj6aJmh3ttZ9+3ceeTg/1qPSjaD4ViLVNRns7RbmSItESXdRIcRjvz04o5mUsVO7UorS/Xtby8z0NJopWZY5Ecr1CsDinkgDJOB715RrX9nafBY32heHNT0a5guYwl1LD5aspOCrfMSc+4rq/iZn/AIQO8wcHfHz/AMDFHNowWKfJOTXwq/8AWh1LTRLII2kQO3RSwyfwrn49WvG+JE2kmUfY108TCPaPv7sZzjPSmaZ4H0WCS21CeGS61FSsrXc0zlmfrnGcfhiua8T69L4e+I13dWtq91cNpYSJFUkA7slmx2ABNDbSuya1acIRnU0V1s76fcel7huxkZ9Kw77UbuLxhYWMUoW2ltJpZE2jllKgHPXvVbwbpdsmnDWDdDUL/UVEk14e/wDsL6AdMe34DpardHTFyqwT26mN4Sv7rU/C1neX8gknlDFmCgZ+YgcDjoK2aKKaNIRcYqLd7BRRRQWFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABWDPodzL48tdaV4hbQ2jQMhJ3liScgYxjn1reootcicFO1+mpgXehXS+MrTXNMkiQGMwXscjEeYn8JGAeR746Cqs+hazpeu3eoeGZbNor8h7i1vNwUOP4lK+vcf5HU0UrIzdCD8tb/M5/wAP6Bd2moXmra5PFcaleAIwgBEcSDoi55P41QttD8R+HnuLfw3Lp02nyyNLFHelw0DHqBt6rXX0UcqF9XhZJXVuvXXf7zjpfBd0fBup2Auop9U1KTzri4kyqF9wOBgEgADjitM6HcnxTpmpb4vJtLN4JFydxY45HGMcetb1FHKgWHprby/B3Mbw1o9xo0F8l08bm4vZbhPLJOFY8A5A5rZooprQ1hBQiooKKKKCwOccdaw/C9r4jtbe7Him/t72Rpy1u0CbdkfoflH9frW5RQAUUUUAFR3EZltZY1wC6FRn3FSUUC3Mbwjo9xoHhi1068eN5od25oiSpyxPGQD39Ks67o8OvaLcadcsUWYcOvVGByD+BrQopW0sQqUVT9n0tY42fSPGOoaZ/ZF7e6Ylq6+VNdxBzM8f+6RgEjrW5f6KH8Iz6Np22MG1NvF5hOB8uBkgVrUUWREaEVfd3VtexQ0Kxl0zQLGxnZGlt4FjcoSVJAxxmnazpqaxot3p8jlFuIim4DO3PQ1dop20sackeTk6bHM6Ba+K7AWllqB0mSxt18tpIjJ5rKBhcDGM9KbqWh6xbeKH1vw7JZs9xCIbmC8LBTjowK966iily6GX1ePKo3em3kcvo2gaxb+LZ9a1i6tZmntBCUgDKI2DZwAeq47k5yelVINM1jS9a1JvCV5pdxa3Exkntrt2zbykc/c9euDXZ1ian4O0LV7trq9sAZ3GHeORoy4/2tpGfxpcvYznh7RXs97337+epgeBoJby48Ti8nFx9ouvKe4iG1XO0htvsM8VLpuh+L9K01dGs7zShYx7kjumRzMqEk/d+7nmutsNPtNLsktNPgS3gj+6iD/OT71YoUdAp4VKEVJ6q+z7u5zvhrRdU8P+D/7OD2kl9GZDE5LGMkkkbuAe/OKx5dF8bzeIYNZZ/D4uIIWhVQZ9hUnJyMZz+Nd1RRyop4aLjGN3ZefYq6eL5tOjGsC2N2QRKLbd5fXtu56etc94Q8HP4b1LUriaWOVZ322wUkmOLJO05HHJ6D0rq6KdkaOjGUoye8djntf8PXl3qtrrOh3MVvqdqhjxOpMcyH+Fscj6iqT6Br+valZS+JptPis7KUTpBZbyZHHTcW6D6f8A1666ijlRMsPCTbfXddGchdaH4ktfGF/rGhvpZjvIkj23jSZG0Dso9fer2i+HLm31aTWddvFvdSkTy08tNscCf3UB5/Guhoo5UEcPBS5td7+VzlG0DW9F1i7u/DE1k9rfP5s1pe7gEk7spUHrWtpFtrKw3D67d28s0x+SG2TEcIx0BPzHPvWrRRaw40Ywd036X0MXwjo1xoHhyHT7x4nljd2LREleWJHUD1rCl8F6i/hW/wBME1r51zqRu0Yu20JvDYPy5zgen4129FHKrWE8NTcFB7JWMUaNcDxqNY3xfZ/sH2bbk792/dnGMYx71if8ITfHwhDp4uoI7+1vWvIHGWjLbiQG4z0PpXa0UcqCWHpyvfrf8bf5HDazoHjHxFYJBqFzpECxSpIsUAkxKQf4mIJGO2BW74u0W58QeGZ9PtHijmkZCDKSFGGBPIBPb0rcopcqF9XhaSbb5lZjYUMcKIeqqAcfSsNdBuB48m1p2hNrJYi22ZO/duz0xjH41vUU7GsqcZWv01Ob0bw9eaBr1z/Z0sP9iXP7z7M7EPBJ32DGNp9Mj9OekoooSsFOnGmuWOwUUUUzQKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAyLHxDDd67daPPbT2d7AvmKk23E0ecB0IJBHtwRWvXD+IJU034raBqF7ItvZy2k1t5znau/qFJ6DPau3Vg6hkIZSMgg5BpiQtFFFIYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHD+KoxrXxA0Tw7f7n0yS3lup4AxAmZfuhsdQCM4rtbeCK1t44LeNY4olCIijAUDgAViWXhyVPFVxr+p3a3Ny0f2e2jjj2JBFnOOSSWPc/pW9TEgooopDCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAE3qHCFhuIyFzyRS1xnxPhitvCj63CgTUdNkjktrhRh0+cAjPoQTkdK6+3kM1tFIRgugbH1FMXUkooopDCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAwvG82n2/gnVJNZiaaz8gh40OGYngAHsc45qPwVba5a6BEviC7iuGKKYFRfmjTHCu2AGOMc4FUfiLHPquhDw9p9rPPdajIg3LGfLhQMCzu/QYx0zk11kMfkwRxg5CKFz9BT6C6j6KKKQwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAoqtqCXklhKumTRQXWP3bzRl0B9wCPp1rN8Ja+3iPQVvJolhuY5HguI0OVWRDg49u/40CNuiiigYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABXAeC76Lw/4i1Twrcq8lxJeyXUU0IEibH5Acj7jcdGxXfk461xXwvBk0PU7xvmN1qlxIJf8AnoN2Ac/hT6Ce52tFFFIYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAFbULCHU7CWzuTKIZRtfypWjYj03KQeadY2NtptjFZ2EKQW8K7Y40GAoqeigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAP//Z)

Figura : JSON di un messaggio di notifica con payload opzionale

Il comportamento dell’app, quando si ricevono messaggi che includono sia notifiche sia payload dei dati, dipende dal fatto che l’app sia in background o in primo piano, essenzialmente indipendentemente dal fatto che sia attiva al momento della ricezione.

Quando sono in background, le app ricevono il payload di notifica nella barra delle notifiche e gestiscono il payload dei dati solo quando l’utente tocca la notifica. Quando invece sono in primo piano, le app ricevono un oggetto messaggio con entrambi i payload disponibili.

Infine, l’applicazione che conclude questo progetto di Voice Assistant è stata testata su Android Emulator, come già detto un tool di Android Studio. Un Android Emulator è un Android Virtual Device (AVD) e simula dispositivi Android sul proprio pc, così che lo sviluppatore possa testare il progetto su una vasta gamma di dispositivi e API Android senza il bisogno di avere ogni dispositivo fisico. Inoltre, testare una app sull’emulatore è in qualche modo più veloce e più facile che farlo sul dispositivo fisico. Ad esempio: i dati sull’emulatore si trasferiscono più velocemente rispetto ad un device connesso via USB.

L’emulatore dispone di quasi tutte le funzionalità di un dispositivo Android. Può simulare telefonate e messaggi di testo in arrivo, specificare la posizione del dispositivo, simulare la rotazione e altri sensori hardware, accedere a Google Play Store e molto altro.

1. **Sperimentazione e risultati**

Sia l’assistente vocale che l’applicazione Smartphone comunicano con le API tramite richieste HTTP. Acronimo di Hypertext Transfer Protocol, HTTP è un protocollo client-server in cui il client interroga il server attraverso richieste. Le richieste sono formate da:

* Una Request-Line
* Zero o più header
* Una riga vuota
* Message-body opzionale

La Request-Line contiene il tipo di richiesta che verrà eseguita e l’indirizzo (URL) della risorsa che verrà interrogata. Le richieste fondamentali sono quattro:

* GET: usata per ricevere informazioni dalla risorsa identificata nell’URL.
* POST: usata per inviare dati al server.
* PUT: usata per modificare informazioni già esistenti.
* DELETE: usata per rimuovere informazioni.

Il parametro header permette al client di aggiungere informazioni alla request e al client stesso. Ci sono header standard o personalizzati: in caso di API sono personalizzati.

Il body, come si evince dal nome stesso, contiene l’informazione che il client vuole mandare al server.

Dopo aver interpretato la richiesta, il Server risponde a sua volta con:

* Uno Status Code
* Zero o più header
* Riga vuota
* Message-body opzionale

in cui lo Status Code non è altro che un elemento di tre caratteri che sta ad indicare il codice della risposta. Tipicamente uno Status Code di richiesta ricevuta con successo ha il codice 200, mentre un errore dovuto a richieste malfatte dovute a sintassi errata o incompletezza ha il codice 400 o 401.

Essendo il presente progetto nato come command-recorder, quindi un dispositivo il cui lavoro è quello di riconoscere frasi di breve durata, è stato realizzato un sistema push-to-talk.

Questo sistema PTT, all’avvio esegue il login a Measurify, mandando username e password attraverso una POST request ed effettua il parsing della risposta JSON ricevuta dalla API salvando il token in una variabile.

![Immagine che contiene testo

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdhYnJpAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM5MQAAkpIAAgAAAAM5MQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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ACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD/2Q==)

Figura : Login a Measurify

Dopo aver effettuato il login, il device è pronto a ricevere i comandi vocali. Ovviamente la prima operazione che un assistente vocale deve eseguire è quella di Speech Recognition e, come detto nel capitolo precedente, è stato usato il package SpeechRecognition. Tutta la “magia” di questa libreria si realizza nella classe Recognizer. La funzione che direttamente effettua lo Speech-to-Text è *recognize\_google()*, al quale va passato un argomento, in questo caso un file *audio.wav* registrato dal microfono usb collegato al Raspberry Pi. Quindi, come si vede nell’esempio sottostante (da cui sono state prese soltanto le righe di codice della suddetta parte), una volta inizializzato il microfono come source e registrato il file audio, viene chiamata la funzione di recognize a cui viene passato l’audio.

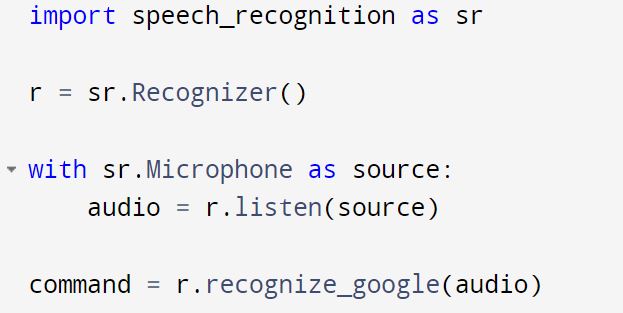


Figura : Speech-to-Text

Salvo errori nella fase di riconoscimento, o errori dovuti ad impossibilità di raggiungere la API, command è la stringa con le parole pronunciate dall’utente.

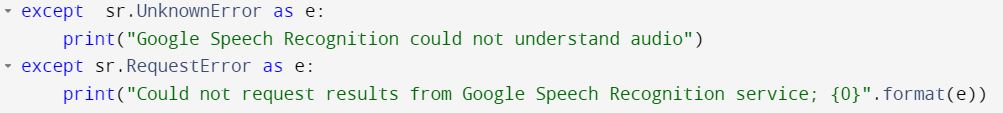


Figura : possibili errori di SpeechRecognition

La chiave default fornita da SpeechRecognition ha solamente scopi di testing e Google può revocarla in qualsiasi momento. Anche con una chiave API valida, si ha permesso solo a un numero massimo di richieste giornaliere o mensili, senza possibilità di sforare gratuitamente. Fortunatamente, SpeechRecognition è molto vicina alle più efficienti API ufficiali, così da renderne molto simile l’utilizzo.

A questo punto l’assistente è pronto per inviare il JSON del comando vocale a Measurify, sempre attraverso una POST request.



Figura 15: POST request del voice command

Dove il campo *post\_url* è l’URL a cui viene fatta la richiesta, *data* è la codifica JSON di payload che a sua volta contiene una THING, una FEATURE, un DEVICE ed infine i Samples (cioè *command*), mentre headers contiene il token ricevuto da Measurify al momento del login.

I parametri headers e data dipendono dalla API che viene interrogata. Ciascuna API ha la propria documentazione ufficiale, che è praticamente un manuale finalizzato a informare l’utente su come comunicare con la API.

L’assistente ha integrate anche una funzione che mostra le misure precedentemente inviate a Measurify e una parte che si occupa del monitoraggio del token. La richiesta per ottenere lo storico delle measurements salvate dalla API è una GET che - come si vede dall’immagine - ha come unico campo (oltre ovviamente all’url) un header contenente il token.



Figura : richiesta per ricevere le misure precedentemente inviate alla API

Il monitoraggio del token non fa altro che controllare il codice di risposta ad ogni request inviata a Measurify e, se non corrisponde al codice di richiesta andata a buon fine (200), esegue nuovamente in automatico il login e successivamente rimanda la richiesta precedentemente rifiutata.

Una volta completata e testata la prima parte, si è passati allo sviluppo della app. Essa non si limita a estendere le funzionalità dell’assistente vocale oggetto di questa tesi, ma può essere usata da chiunque abbia accesso a Measurify; infatti, si presenta con una schermata di login iniziale in cui inserire le proprie credenziali e, una volta effettuato il login, si viene indirizzati verso una schermata che restituisce le proprie measurement, con qualche informazione aggiuntiva.

Affrontiamo ora la realizzazione step by step.

Come già fatto per il Raspberry Pi, il primo passo è stato quello di scrivere un metodo di login, diverso sintatticamente dal precedente, ma uguale nel contenuto.

![Immagine che contiene testo

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdhYnJpAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM0OAAAkpIAAgAAAAM0OAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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XGCCepJrQFxrXinxHr1pp+uXGh2ujzJaRG0t4ZHnlaJJC7mVH+Ub1AVQp4JJORi7beCItNu5m0XW9V0yxnnaeXTbd4jAzMcvtLxs8YYk5EbqASSMHmptQ8Ipdatcajp2salo814ipeCwaLbc7RhSwkjfawHG5NpxjJ4GD0/4b+v+CHVnN6d4t1jxPZ+G9PiuF0q91OO6kvru1iDFBbOI2EIlDAbnKkFlbC574NZMGtXfgvTfHNyl1PqV6Net7aO5ubcSMXlhtkDtHCq7tu77qqCcAdTmu4ufBGnNY6TBpU91o8mjKUsbiyZTJEhXayHzVdXDADO4E5APUZqO2+H+i2+l6tp7fap4dWuRdXDSzkyCYBAHVxhg2UDZzwemBgBp2b/rqn8tEGmi/rqZXhjW9Tfxcmnfa9d1fTZ7N5ZLvVtEeya2mRlAUN5ESsrhjxgkFOuDgW76M6V8XNJubVtket2U9vdxjpI8O14pD7hTIufQj0429I0a90yZnu/EeqashTasV6lsFU/3gYoUJP1JFZen2d1rXjubXb61ltbTS4pLDTkmBVpWZgZptvZTsVVz1AY9GFHVfP8AX/O349Cej+Ro6vbeIJtc0WXRr+2t9Ohmc6nDLHueeMphAhwcENz1H14wdmuI8a+G9Q8UeKPDK2kNzaQ6PfpqMmo+eixsoBBhVAxZnbjkqFC7vmOdp7ektvn/AJDe/wAv8wooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAhuv8AUr/10j/9DFTVDdf6lf8ArpH/AOhipqACoYP9dc/9dB/6AtTVDB/rrn/roP8A0BaAJqKKpazcS2mhX9xbtslhtpHRsA4YKSDg+9NK7sOK5mki7RXMaJF4iubLSNTn1eO4+0Ij3lq0KJEqNHnMeFL7wdvVsHLcDgDFm8Vald2+oX9hNqQntriWO106DSZJYJxG5XDyCInc2DyrgLkccHPVHCSlJxi07ev+X/AOiOHlJ2i0/v8A8vL0O9kuYIZYoppo45JmKxIzAGQgEkKO5wCeOwqSuK8S2V1c+KvDUq6rfWouLmTbEiQ/6Ofszk7d0ZOTgg7t3U4xxjU1O5vdJn8P2qX81x9p1AwzyzJHulTypGwdqgDlV6AHj60nh9I2lq1fr5+XkS6KtFp7q/3X/wAvvOhorldV1m/th4t8mfb/AGdp6zWvyKfLfynbPTnlR1zU2kQeIZYtL1CfV0uVnQPeWzQLHEqMmQY8KX3A7c7mIOW4HAE+wajzNpff2v2E6LUeZtf0k/1OkorgI9Z10eGW8QTaqW8rUfs62iwRiN4/tXk/Odu7dgnlSo4Xg8k9/Sq0XS3d9Wvmrf5iqUnTervq181uFFcv4u1DVbfVfDtho14lmdSvngnkaESYjEEjkqD0YbMg9M4yCMg417r2s6VofjG3/tOS6uNFMZtbyaGMSEPEj4YKoQ4LED5Rxj610UsDOrGLjJa9NdnLlvtbcwcrHoNZdl4j06/1mfSoGuUvYEMjRz2c0IKhtpZWdQHGe6kiql9qd3D460TTo5dtrdWd1JNHtHzMhi2nOMjG5unrVc/8laT/ALAbf+jxU08OuVufWLkreTa108hSk1G68vxa/wAzTu/EenWOtW2l3bXMdzdMEgJs5jE7EFtolC7M4UnG7PFalct4x/5C/hP/ALDQ/wDSeatTxPb63deGb2DwreW9jq7x4tbi5TdHG2RyRg9s9j9DWVanCFOE431Wv3taF/at/XU1aKZAJVt4xcMryhQHZRgFsckD60+ucFsFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAEN1/qV/66R/+hipqhuv9Sv8A10j/APQxU1ABUMH+uuf+ug/9AWpqzdU13TdDmt11KR7cXcgRZvs8hiDEhQHkClEySAN5GTwM0AaVQ3lql9YT2kpYRzxtGxU8gMMHHvzU1FNOzuhptO6ILG0jsNPt7OEs0dvEsSlzyQowM+/FZg8OeRdTS6Zq1/p8c8pmkt4PKaMuTlmAkjYrk8kAgZycZJraoq1Ukm33KU5LYztX0aLV47ffPPbT2swmguLcqHjfBGRuBU5BIIII5qK70AX+n2sF1qN49zaTCeG+HlrKrjIzgJsPysVwVxg+vNa1FCqzSST2/r+lsNVJJJLp/X3eWxgReD7GK21eJrm8mfWYfKvJpZQzt8pXcOMKcN0A2jAwAOK2rW3Szs4baIsUhjWNS3UgDAz+VS0UTqTn8T/rYUqkp/EzE/4RWy/4R1tG824+ztc/aS25d+7zvOxnGMbuOnT8626KKUpyl8T8/vFKUpbvz+8z9Q0a31LUtLvZ3lWTTJ2nhCEBWZo2jIbI5GHPTHOKqXHhPTrv+3BcmaRNcCC6TfgLtjCDYQARwAep5rboq416sbcsrW0/G/56knPWPg+C11621q71TUtR1C2gkt0lupEx5b7TjYiKowV6gAnPJOBiP/hD5v8AhIhrJ8T6wbgJ5WzZabPK37/Lx5GcZ753e9dLRWn1ute7fS2y27bafInlVrHO634Tk1zUre7fxDqtoLSYT28NuttsikCFNw3wsxyGbgkjn6VW8daRfat8Przw/aW91qlzqFubP7QZoofLYrgTSn5flBwWCKSegXFdXRWNSrKpBU5bLyRS0lzIz9A02XR/DenabcXL3ctnaxwPO5y0hVQCx+uK0KKKiTcm2xJWVkFFFFIYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBDdf6lf8ArpH/AOhipqhuv9Sv/XSP/wBDFTUAFc18RLZ7r4d61HE8aOLYuGklWNRtIbl2IVenUkAdzXS1yPxIMt54Tn0SytLu6vdU2wwCC2d41O9ctJIBsjUDnLEZwcZPFJ6qwHR6ZqMWqWCXVulxGjZG24t3hcEcH5XAOPQ9D1BI5q3QBhQKKYlsFFFFAwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAEYBh8wBGc8is7R/EGna79oGnTSGS1cRzwzwSQSxEjI3RyKrAEHIJGCOma0q462n/ALO+LWqifzHTUrCzWEQqZfLZGnyZFXJjUgjDsApwQDkYoW4dLnY0UUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABXH+FxNqHjvxFrqWl3b2Fxb2lrA15bPbvK0XmlyEkAbaPNUZIGSDjI5rsKKadg6WCiiikAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAf//Z)

Figura : Dart login

Successivamente ci si è indirizzati all’analisi delle HTTP responses, in modo da poter creare classi complementari alla sintassi delle risposte in cui salvare le informazioni dopo aver effettuato il parsing. Le risposte consistono in stringhe JSON (JavaScript Object Notation), un format di scambio-dati molto facile da scrivere e leggere. Il JSON della risposta di Measurify al login è la seguente:

![Immagine che contiene testo

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdhYnJpAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM1NAAAkpIAAgAAAAM1NAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figura : body della risposta al login

Come si vede, la risposta al login contiene il token come unico elemento e, di conseguenza, la rispettiva classe Dart sarà composta da una sola variabile, oltre ai metodi di JSON encoding e decoding:

![Immagine che contiene testo

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdhYnJpAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMxNgAAkpIAAgAAAAMxNgAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figura : token ClassModel

In seguito si è passati alla realizzazione di una semplice UI, formata dal logo di Measurify sopra ai campi di username e password e il bottone di login.

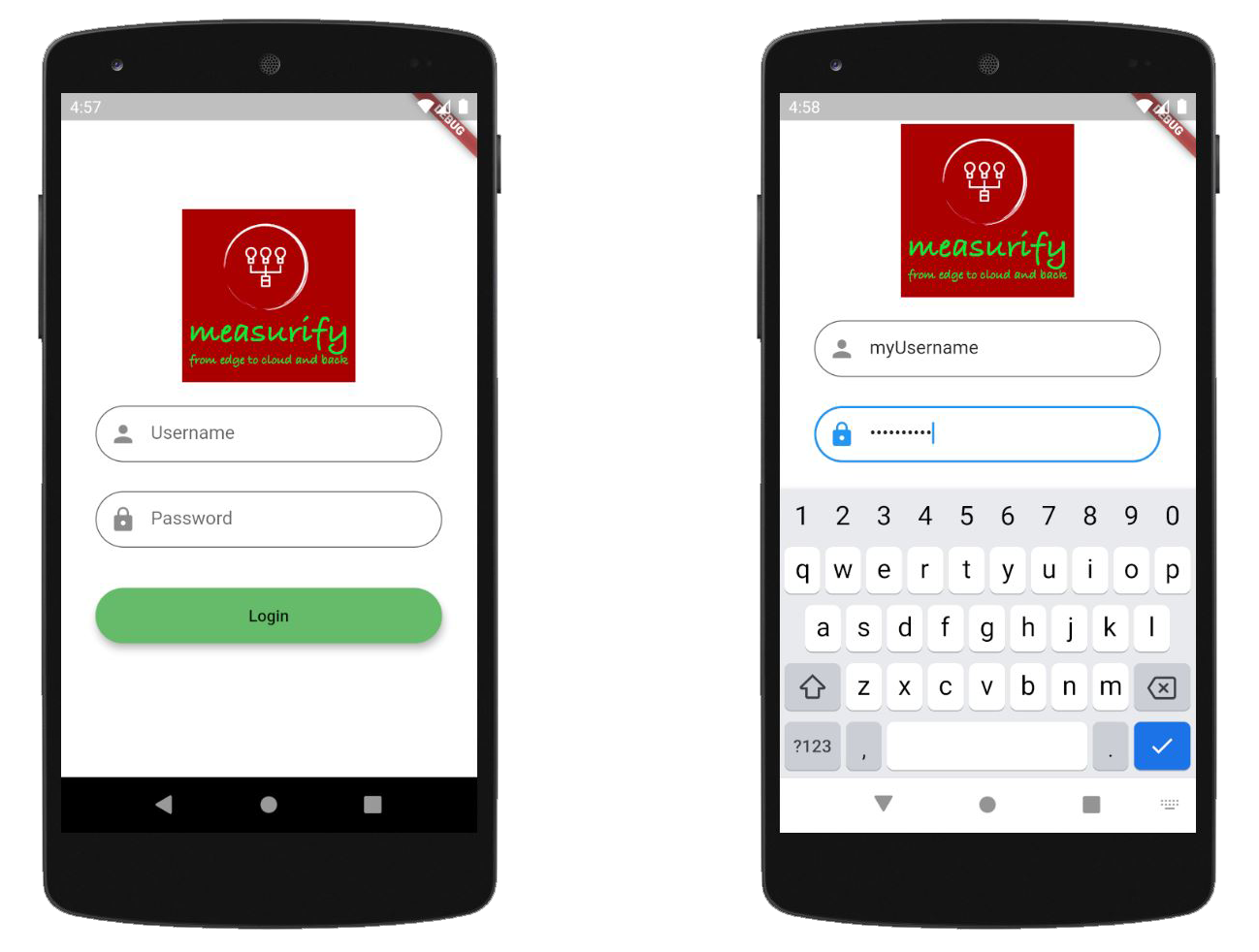


Figura : Schermata di login

Il login, se inseriti correttamente nome utente e password, indirizza alla home page. Nell’initState della home page viene chiamato il metodo *getMeasurements*, che riceve in ingresso il parametro *token* dell’oggetto *TokenModel* e una stringa, la quale viene utilizzata per decodificare la risposta.



Figura : chiamata alla funzione getMeasurements

![Immagine che contiene testo

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdhYnJpAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM1NwAAkpIAAgAAAAM1NwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figura : Dart getMeasurements

In questo esempio sono presenti altri elementi da affrontare:

* La GET request, anche questa volta diversa solo sintatticamente da quella corrispondente eseguita dall’assistente vocale;
* La classe MeasurementModel;
* La funzione getAllSample;
* L’elemento \_fcmToken.

Come per il caso del login, è stata costruita la classe successivamente all’analisi del JSON ottenuto in risposta da Measurify. Questa volta la risposta è più articolata, presenta liste nidificate e merita la visione almeno dei punti salienti, oltre che un estratto della JSON response. Si nota che, negli esempi seguenti, sono stati tolti rispettivamente tutti i docs tranne uno e i pezzi di codice per il JSON encoding e decoding, in quanto ridondanti.



Figura : JSON response al metodo GET

Questa risposta JSON, come già accennato nel capitolo precedente introducendo Measurify, è composta da un elemento di nome “docs”, che non è altro che la lista delle misure salvate dal server, complete di numerose informazioni, tra le quali la THING che ha mandato la measure, la FEATURE (cioè la grandezza misurata, in questo caso un comando vocale), il DEVICE (cioè il dispositivo che ha effettuato la misura) ed infine i “samples”, che a loro volta sono un array di “values”. In questo caso i values, trattandosi di comandi vocali, sono monodimensionali.

La rispettiva classe MeasurementModel è stata così costruita:

Immagine che contiene tavolo

Descrizione generata automaticamente

Figura : classi Measurement e Doc

![Immagine che contiene testo

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdhYnJpAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMxMAAAkpIAAgAAAAMxMAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figura : classe Sample

![Immagine che contiene testo

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdhYnJpAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMyNAAAkpIAAgAAAAMyNAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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ABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVCv8Ax/S/9c0/m1TVCv8Ax/S/9c0/m1AE1FFFAGFB400G5aP7PfGRJHEfmrBIY0cnAR327UYn+FiDyPUVZ1HxHpelTtDeTyB0TzJRFBJKIU/vSFFIReDy2BwfQ1neDdMCeCLSz1KxC4d3eC4h7+azAlSOucEH6Gsqe0utO8Ta1Jd32tWsF/Kk0L6dYLcpIojVCrYhkZSCvQ4GCMZ5rvVGjKrKEb6X676ray9XszsVKlKpKKvp+Ovkv0NfxP4rTQ4LNraOSdri4gXelpLLGYnkCkh0G3djOBnJ44ORnR/4SCwGnm9lNxbwCZIc3FpLE29mCr8rqGIJYDOMe/BrE1jSPsfgbTbbSYrq6i02e0mWNkJmeKKRWPy4B3bQeMZ4xjNS+JZzrfhKWTTLW8kMF1BK0UlpJFIyxyo7bUdVLfKDjA5xgZPFCpUpKKV/is35aeWgKnTkopLrZs6A31sNSFgZP9JMRmEe0/cBxnPTqaybTxt4fvxA1nfmWKdlRJlgk8oOeiNJt2ox4+ViDyOORVSxuZ9S8e/bI9OvIbFNNaJLm4gaLzH8wEjawDLj/aAzzgY5LvA+meX8PdJstUstrxxhnguIsFWDlgSrDgg4P61DpU4QvO99Oq63v91loS6cIRblvp17pl258X6JaXFxBNeMZLVttyI4JJBb8A5kKqQi4P3mwDg88HGyrBlDKQVIyCD1ripNPuv7A8eILSbzbuW48hREd0wNqgG3j5ucgY75rrdNRo9JtEdSrLAgKkYIO0cVNanTjFOP9aJkVYQik4/1ov8AMbqmqWWjaZPqGqXC29rAu6SRs8dgABySSQABkkkAZJqHSdesdZjlaz+1RmHG+O8s5rWQA9G2SqrbTg/NjHBGeDVbxdp9jqnhe6tdWgvJrVtrP9gDmeMqwZZECfMWVgGAUE8dD0rnfDF/4mI14QTX+s2MFuraVNrNh9hnefYd0LApGWTIQ7yg++Rk4OOS+j8jG2xv2fjLRL7WItMinuI7mcObf7TZTwJc7eT5UkiBJeOfkJyORxzVN/iT4USaSL+03aSPzQVS0mYs0UnlyIuE+Z1Yj5BlsENjaQa4izbXNb1vwXeXsnia+lhvhPqEd7o8drbWLm3kBA/dLIRlioYM6+rZK5i03QNTj1fRZG0m7QR3XiF5GNsw2+bIfLJOON4xtPcdM05aRb7X/BXBWbS72/X/ACPQp/H/AIagktov7Raae7tI722gtraWaWeF87XSNFLMOCTgEqOTgVbkuo/EvhlLzQdZuLSKdPMiu7RIy+B1UrKjAc8EFcggjg15l4Lvo/C+u6Kms2GpLdR+DrKFooNMuLiWJhLJuVljRinIH3scj2rsPDpl8LeCJJdbs7yKS9vrq5Fra2kt1JCJpXkVWWFWOQCMnoDxn1KiSUref4NpAr3Xy/GKbNLwNq9zqfw60bVtYuVkuJ7FJridwqAnbkscAAfgAKn0nxjoetXy2mn3UplkjMsHnWssK3KDGXiZ1CyryDlCwwQehFcVo1nea/8AAKXwxZW2oWWrx6MLVo72xmtf3hQjaGlRQ2cYJXIGeetW9As4NX13RptQ1bxfLd6azTw2mpaOtvDC5iaNlaVLVEbAdhxIQeMZ4qvttf11E7JaHVt4v0ZdYfTFnnknilEMskVnNJBDIQCEeZUMaNyOGYHkeool8ReX48t/Df2XPn6dJffaPM+7skRNm3HffnOe3SuO1aO80jxHcyeCpdeg1K6vkkudLm055dPucnDyeeybYsp82VlH3QCpb5a0NduW0j4vadq11Y6lLY/2JPbmez06e6CyGeNgp8pGIJCk8+lRF6xv53/8Bb/MH1/rr/kdH4r1RdK8O3UpurqykeNkiu7bTpL027bSRIY0VsgYzzgdieal0i9jTwlZX19qqXka2STTajJGLdZRsBMpXogP3sdqzte8QWkng24uIrXVZBewSwwxJpF00u7aw+aIR70GR1YAdOeRVPwy9pq/wvg0y/03UXSLTEs7y0uLKa2d/wB0FdV8xULdxlT9DRraS7W/X/gff6D0vHtr+n9f0zX0nxZpWtK5sDe4WLzl8/TriDzU/vR+Yi+YOR9zPVfUZwdB+JFvqniHV7Cez1NY7a8jgtWTQ70Ha0SMTKTHhDuY/e2/Lg9OTX8Gy6tB4lSw0+/1vUvDcdkQza7pr20trKGARUkeON5Qyls5DEbBlvmwbOm3jeHfH/iOHUbDUjFq1zb3Npc22nzXETgwrEys8asEKtHzvxwQelV1+X6h0Z02qeINL0W60+21S7W3m1K4+zWispPmyYJ28DjgdTgdB3FaNcl498Q23hpdCu7zQf7WWbVobZJQFLWTSZUSrkE55xxj72M+vW0lqr+f6IT0f9eYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABUaxkXLycYZFUfgT/jUlY/ilL7/hHrq40vU5tOuLWN51eOKORZCqk7HDqcqT12lW9GFTKSinJjSu7I2KKoaFqLav4d07UXQI15axTso6KWUNj9av1ck4uzJjJSSaCiiikMKKKKACiiigAooooAKKKKACiiigDOTQ7ZPFEuvB5ftUtmlmyZGwIrs4OMZzlz39OK0aKKOlg3dwooooAKKKKACiiigAooooAzrvQdOv8AV7bUr2Bri4tf9QJJXaKNucOIidgcZI37dwBxnFaNFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFVNXmFtot9O0YlWK3kcxscBsKTj8at1m6/ox17S3sDqV7p8UuVmazMYeRCCChLo2Ac9Vw3oRUTTlFpFRaTTZmfD+1ktvA+lPJdyzJPZwyRwvjZbKY1/dofvlR23s7erGulqK1tYbGzhtbSMRQQRrHGi9FUDAH5Cpa1k05NozgmopMKKKKkoKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD/9k=)

Figura : metodo getAllSample

È stata quindi creata una classe per ogni oggetto nidificato nella JSON response e successivamente è stato implementato il metodo *getAllSample()* che, quando chiamato, restituisce la lista di tutti i Samples.

La home page si presenta con una AppBar dal titolo *My Measures*, un bottone in alto a destra con funzione di logout e una ListView contenente i samples, cioè gli elementi di *sampleList.*

Immagine che contiene testo, monitor, screenshot

Descrizione generata automaticamente

Figura : Home page

Infine è stato aggiunto il supporto alle push notifications. Una notifica push è un messaggio che appare come banner su un dispositivo mobile quando la app è chiusa o in background. Per usufruire del servizio di messaggistica FCM è stato necessario aggiungere le estensioni e i plugin di Firebase (sono stati modificati vari file all’interno del progetto della app, come i file *build.gradle* e *AndroidManifest.xml*).

Per funzionare, le notifiche push hanno bisogno di un’iscrizione per ricevere le notizie. A questo scopo, si deve usare una risorsa chiamata *Subscription* e creare un nuovo elemento che consiste in una POST request con il body composto dagli elementi “token”, “thing” e “device”. La thing e il device sono già stati visti, mentre il token questa volta è un valore speciale che, chi realizza l’applicazione client per il dispositivo mobile, deve ottenere dall’uso di Firebase per conto proprio. È un identificativo di tale applicazione su cui è installata e rappresenta il dispositivo a cui mandare la notifica. Ovviamente, la Subscription si può eliminare con una DELETE request.

La funzione per ottenere il token è data dalla documentazione di Firebase ed è la seguente:

![Immagine che contiene testo

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdhYnJpAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMxOQAAkpIAAgAAAAMxOQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figura 28: FCM token

Una volta ottenuto il token del dispositivo da FCM, è stata fatta la subscription tramite Postman, una piattaforma molto utile che permette facilmente di testare API.

Ora, il dispositivo mobile riceverà una notifica ogni volta che la THING Giuseppe Verdi dirà qualcosa all’assistente vocale; notifica che si presenterà con un eventuale suono o un’icona nella barra delle notifiche del dispositivo e, come body message, avrà il JSON contenente THING, FEATURE, DEVICE e SAMPLES.

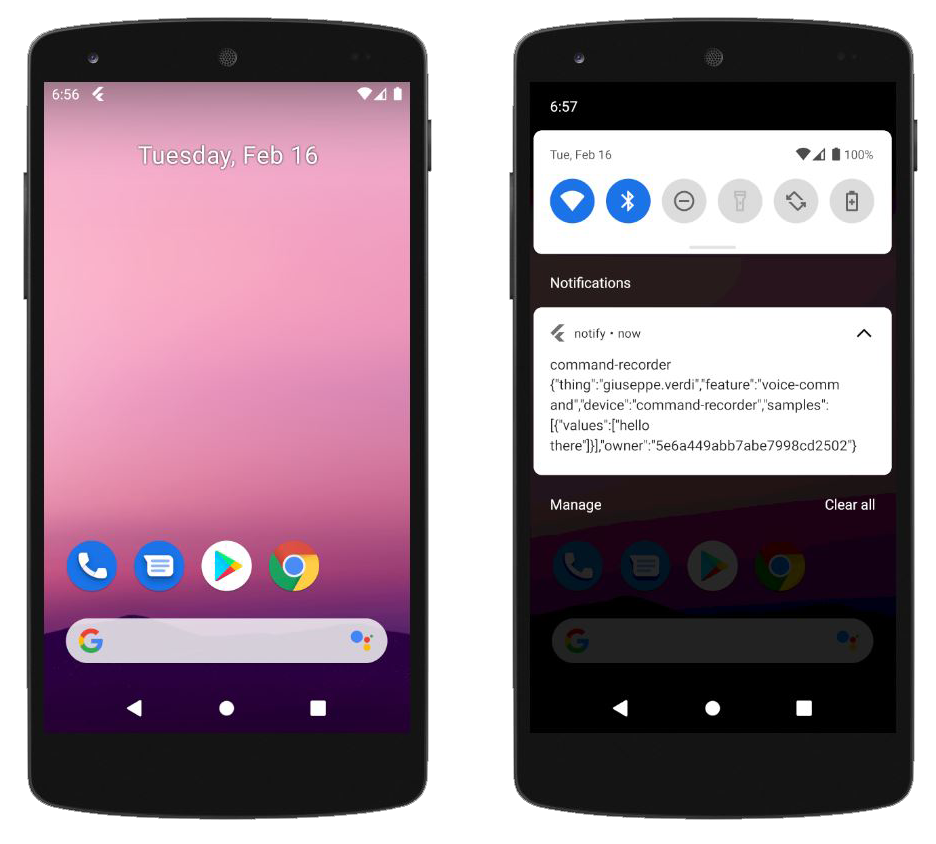


Figura : ricezione notifica push

1. **Contributo personale e considerazioni conclusive**

L’intelligenza artificiale trasforma oggetti in macchine che mostrano un aspetto di intelligenza umano. L’applicazione di una combinazione di una intelligenza artificiale con un oggetto, come lo speech recognition e il natural language understanding, sta esibendo profondi effetti nel mercato mondiale. Dispositivi mobili intelligenti, smart homes e smart speakers collegano i vari nodi della vita del consumatore in un’unica esperienza onnipresente, fornendo nuove forme di conoscenza, intrattenimento e shopping.

Stando a ReportLinker, nel 2019 il mercato degli assistenti vocali era valutato 1,723.6 miliardi di dollari e si stima che raggiungerà un valore di 26,872.6 miliardi di dollari nel 2030. In termini di industria, il mercato degli assistenti vocali è categorizzato in salute, servizi bancari e finanziari, assicurazioni, automotive, e-commerce e altri settori più generici (che includono telecomunicazioni, ospitalità, media e intrattenimento, trasporti).

Concludo aprendo una parentesi sul mondo aziendale. Un assistente virtuale in questo ambito è essenzialmente un assistente amministrativo, che opera con una vasta gamma di funzioni professionali per supportare un’azienda a distanza. Molti di essi gestiscono gli stessi tipi di attività di una segretaria tradizionale, ma senza la necessità di uno spazio fisico o di un ufficio.

Gestire un’impresa richiede l’assunzione di molti compiti e responsabilità. In molti casi, può essere opprimente e si potrebbe avere bisogno di supporto ogni giorno.

Man mano che un’azienda cresce, potrebbero rivelarsi necessari maggiori sforzi per sostenere questa crescita. Ciò significa che potrebbe rendersi necessaria l’acquisizione di nuove risorse per mantenere in carreggiata la propria attività, evitando di sovraccaricarla.

È precisamente per queste ragioni che si può trarre vantaggio dall’assunzione di un assistente virtuale. Gli assistenti virtuali sono sempre più popolari tra liberi professionisti, imprenditori e titolari di grandi imprese, principalmente perché possono supportare il lavoro in tanti modi diversi, ad esempio organizzando eventi, rispondendo ad e-mail, programmando riunioni e dedicando maggiore cura a quelle attività che richiedono presenza continua.

L’acquisizione di un’assistente vocale presenta numerosi vantaggi, i più significativi dei quali sono:

* Esperienza: un assistente virtuale può specializzarsi in una particolare area o avere la capacità di eseguire molti compiti diversi. È probabile che presenti un prezioso bagaglio di esperienza, lavorando per diversi tipi di società, come l’abilità di adattarsi a differenti ambienti.
* Nessuno spazio fisico richiesto: l’assunzione di un assistente virtuale non richiede alcuna modifica alla struttura fisica della azienda.
* Risparmio di tempo e denaro: non è necessario passare attraverso un lungo processo di reclutamento e, inoltre, l’assumere un assistente virtuale come lavoratore a contratto in base alle necessità, invece di un dipendente stipendiato a tempo pieno, permette un risparmio in denaro.
* Aumento della produttività e risparmio nei tempi di risposta ai clienti: la presenza di un assistente virtuale garantisce che i clienti ricevano risposte tempestive. Se si è troppo occupati per rispondere rapidamente alle richieste dei clienti, per esempio, un assistente virtuale può sopperire a questa mancanza. Questo non solo garantisce la soddisfazione del cliente, ma permette anche una migliore gestione delle tempistiche di lavoro.

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[7] Documentazione Flutter: *https://flutter.dev/docs/get-started/install*

[7] Documentazione Dart: *https://dart.dev/guides*

[8] Documentazione FCM: *https://firebase.google.com/docs/cloud-messaging*

[10] Dati sulle conclusion: *https://www.reportlinker.com/*