

Emotionally

Manuale d'Uso

FSC

Versione 1.0.0, 21 febbraio 2020: Versione del sistema consegnata per l'appello
del 28/02/2020

Emotionally: Manuale d'Uso

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Prefazione

Il presente documento rappresenta il manuale d'uso del sistema “Emotionally”, un sistema progettato e sviluppato dal team “*F.S.C.—Five Students of Computer Science*” come progetto universitario legato al corso, tenuto dal Prof. Giuseppe Desolda, di “Programmazione per il Web” del terzo anno del Corso di Laurea in Informatica e Comunicazione Digitale (sede di Taranto dell’Università degli Studi di Bari “A. Moro”).

In particolare il sistema ha l’obiettivo di creare una interfaccia web-based a un sistema di analisi delle emozioni che consenta di condurre delle analisi statistiche a partire da dei video.

Capitolo 1. Installazione

Se si vuole utilizzare il sistema sulla propria macchina è necessario scaricare l'ultima versione del pacchetto software (<https://github.com/F-S-C/Emotionally/releases>). Una volta scaricato, si otterrà il pacchetto *UwAmp* già avviabile senza installazione di componenti aggiuntivi.

Basterà accedere alla cartella *Emotionally_UwAmp* e avviare* il file eseguibile chiamato *UwAmp.exe*.

Una volta avviato *UwAmp* i servizi saranno azionati automaticamente e si potrà utilizzare il sistema aprendo il browser e digitando l'indirizzo <http://localhost/>.

* *N.B.: E' consigliato (ma non necessario) avviare il file con i permessi di amministratore per agevolare l'avvio e l'arresto dei servizi necessari al corretto funzionamento del software.*

Capitolo 2. Come utilizzare il sistema

Di seguito, si riportano le istruzioni sull'utilizzo del sistema. Saranno riportate alcuni scenari d'uso tipici con istruzioni passo passo al fine di permettere un semplice raggiungimento degli obiettivi prefissati.

2.1. Requisiti hardware

Per poter utilizzare il sistema è necessario disporre di una connessione a internet (a meno che il sistema non sia installato sulla propria macchina, come descritto nel [Capitolo 1](#)). Non è necessario alcun tipo di hardware aggiuntivo al fine di utilizzare il sistema. Tuttavia, per poter usufruire delle funzionalità di analisi di video registrati in tempo reale è necessaria una webcam (anche esterna) per registrare i video e un microfono (opzionale) per registrare l'audio.

2.2. Requisiti software

Per utilizzare il sistema non è necessario installare software aggiuntivo né compiere alcuna operazione particolare (salvo l'eventuale installazione qualora si decidesse di utilizzare una versione non on-line del sistema, come descritto nel [Capitolo 1](#)) in quanto *Emotionally* è un sistema basato sul web. Questo significa che per poterlo utilizzare è semplicemente necessario un browser e un collegamento a internet (qualora il sito non fosse installato).

È tuttavia fortemente consigliato l'utilizzo del **browser Firefox** (<https://www.mozilla.org/firefox/>) a causa di alcuni problemi legati al browser Chrome e Chromium (e derivati).

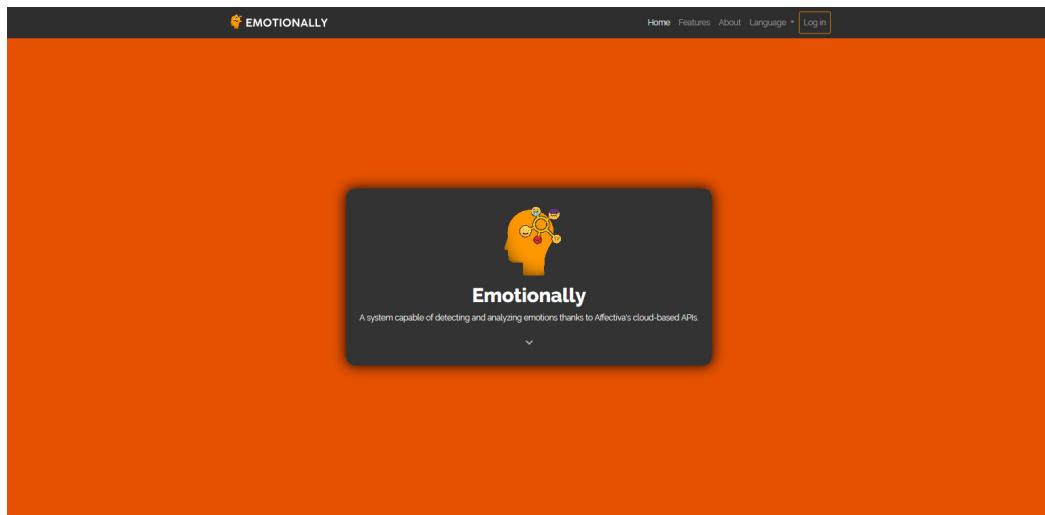


I problemi riscontrati nei browser *Chromium-based* (Chromium, Chrome, ecc.) non comportano una inutilizzabilità del sistema, ma potrebbero essere fonti di errori e comportamenti anomali che non è possibile prevedere. Per tale motivo, per godere di un'esperienza d'uso che sia la migliore possibile, è fortemente consigliato l'utilizzo di *Firefox*.

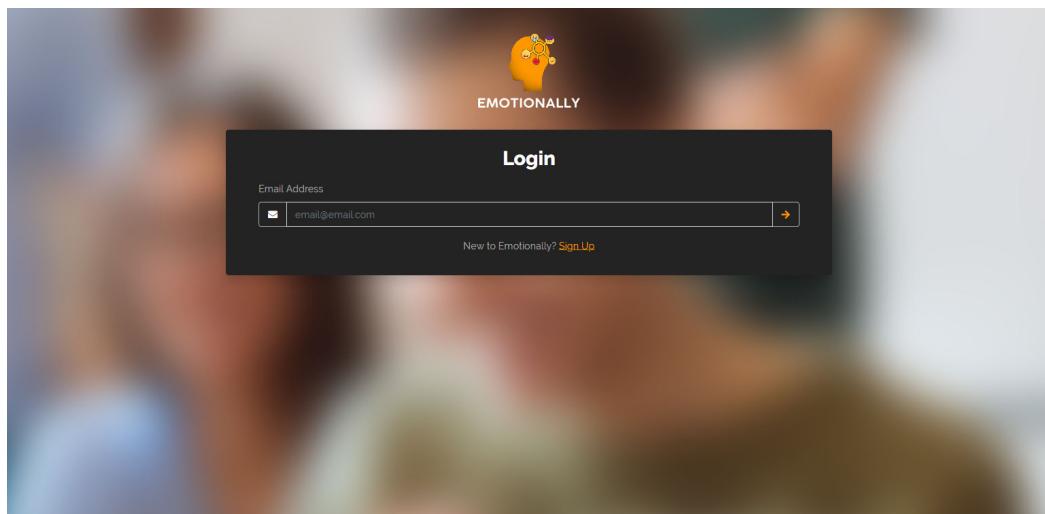
2.3. Utilizzo del sistema

2.3.1. Registrazione e verifica mail

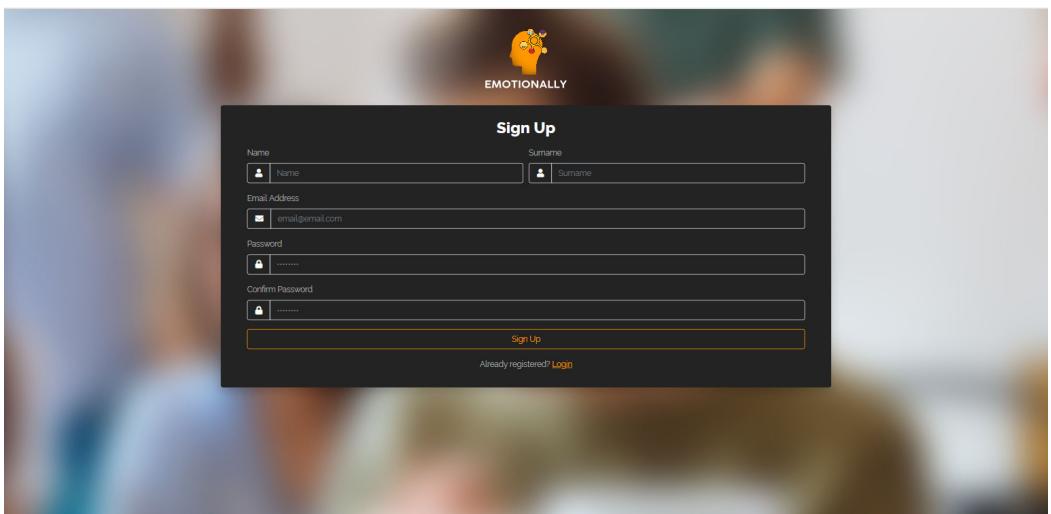
Andando all'indirizzo <http://localhost> si entrerà nella *Landing Page*. Da qui si può effettuare la registrazione cliccando sul pulsante *Login*, presente in alto a destra.



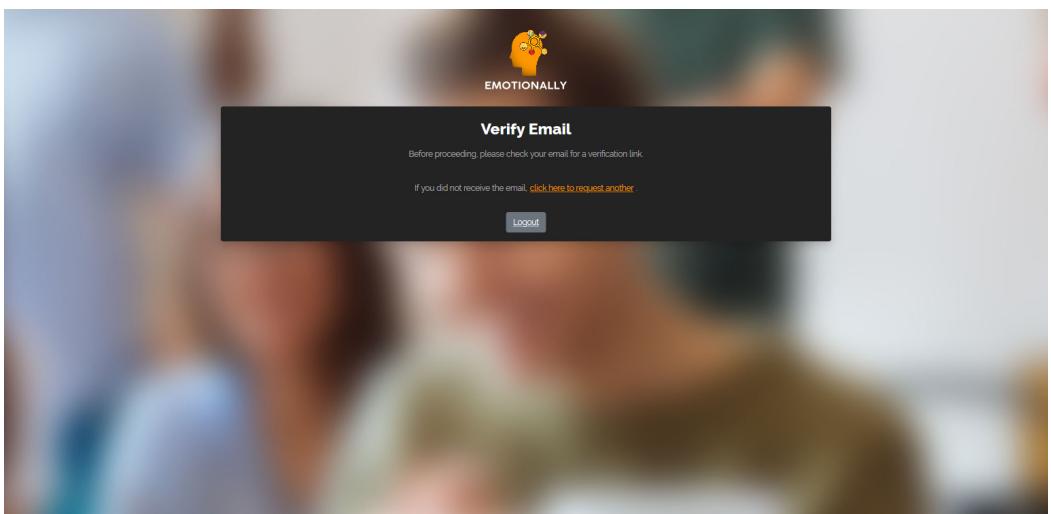
Una volta aperta la pagina di login, sarà sufficiente cliccare sul link *Sign Up*.



Si aprirà la pagina di registrazione dove sarà necessario inserire i seguenti dati: - Nome - Cognome - Indirizzo E-Mail (necessario per il login al sistema) - Password - Password di conferma



Successivamente al click del bottone *Sign Up* verrà inviata una mail all'indirizzo inserito con un link per verificarla.



Sarà necessario accedere alla casella di posta e cliccare sul bottone *Verify Mail Address* presente all'interno della mail ricevuta dal sistema.



EMOTIONALLY

Hello!

Please click the button below to verify your email address.

[Verify Email Address](#)

If you did not create an account, no further action is required.

Regards,
Emotionally

If you're having trouble clicking the "Verify Email Address" button, copy and paste the URL below into your web browser: <http://localhost/email/verify/156c616dd4a49199851b1f581f34ab2be7baae75a8?Expires=1582297486&Signature=d05aded78ef1fe345eb763cd079a5128fbafe4fd47efcf3e87005a6b4f76690>

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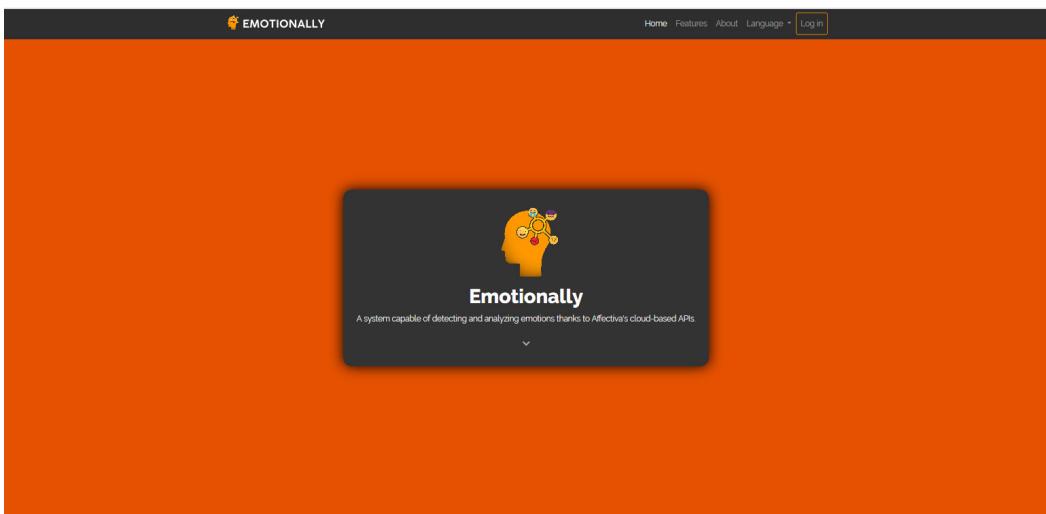


Cliccato il bottone, si verrà indirizzati alla dashboard del sistema.

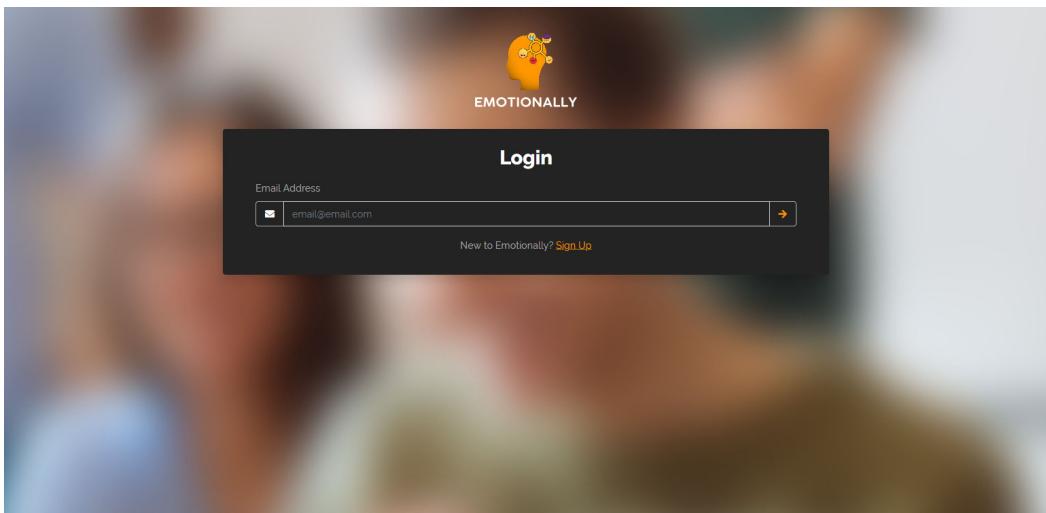
The screenshot shows the Emotionally application's dashboard. On the left, there is a sidebar with navigation links: Projects, Language, Profile, and Logout. The main area has a header with a search bar, a user profile for 'Mario Rossi' (example@gmail.com), and a 'Add' button. Below the header, the title 'Dashboard' is displayed, along with a breadcrumb trail: Home - Dashboard. A table is present with the following columns: NAME, CREATED AT, UPDATED AT, VIDEOS, SUBPROJECTS, and AVERAGE EMOTION. The table body contains the text 'No data available in table'. At the bottom of the page, there is a footer with copyright information: 'Copyright © 2019-2020, FSC. Released under the GNU GPLv3 License.' and a font size selector.

2.3.2. Login

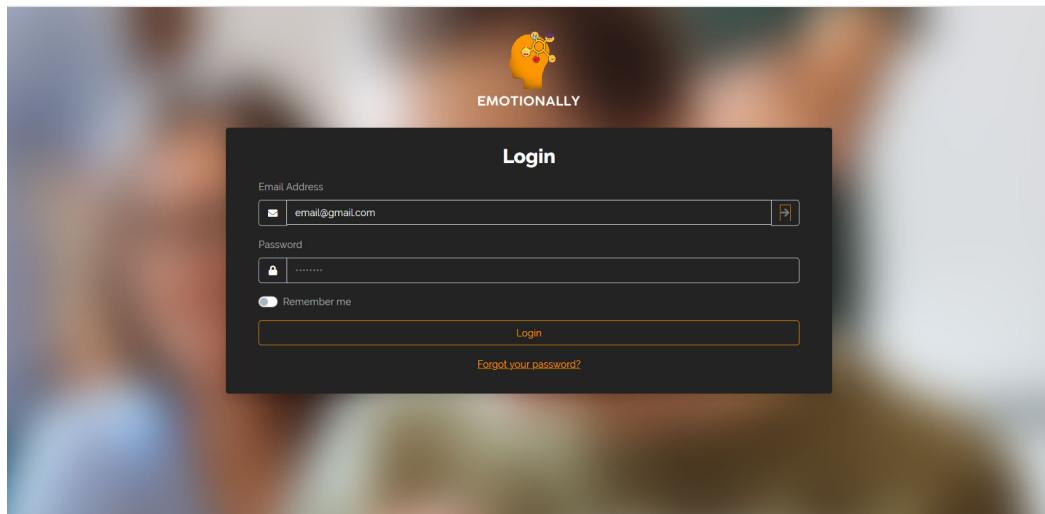
Per effettuare il *Login* è necessario visitare la *Landing Page* e, successivamente, cliccare sul bottone *Log In*, presente in alto a destra.



Si aprirà la pagina di *Log In* nella quale sarà necessario inserire la mail:



Dopo aver inserito la mail, premendo il pulsante invio (o cliccando sulla freccia), sarà possibile inserire la password:



Il toggle *Remember me* permette di non perdere la sessione alla chiusura il browser. Cliccando sul bottone *Login*, se i dati inseriti sono corretti, si potrà accedere al sistema.

N.B. Se la mail non è stata verificata, si entrerà nella pagina di verifica mail (illustrata nella sezione [Section 2.3.1](#)) e non sarà possibile accedere al sistema.

2.3.3. Dashboard

Una volta completata la fase di [Section 2.3.2](#), l'utente verrà reindirizzato nella *Dashboard* del sistema, contenente l'elenco dei progetti dell'utente.

Sidebar

Sarà possibile inoltre interfacciarsi alla siderbar presente sulla sinistra, contenente le sezioni *Progetti*, *Lingua*, e *Profilo*.

Dalla sezione *Lingua* l'utente sarà in grado di cambiare la lingua del sistema in Italiano o Inglese a seconda delle sue preferenze.

Parte destra

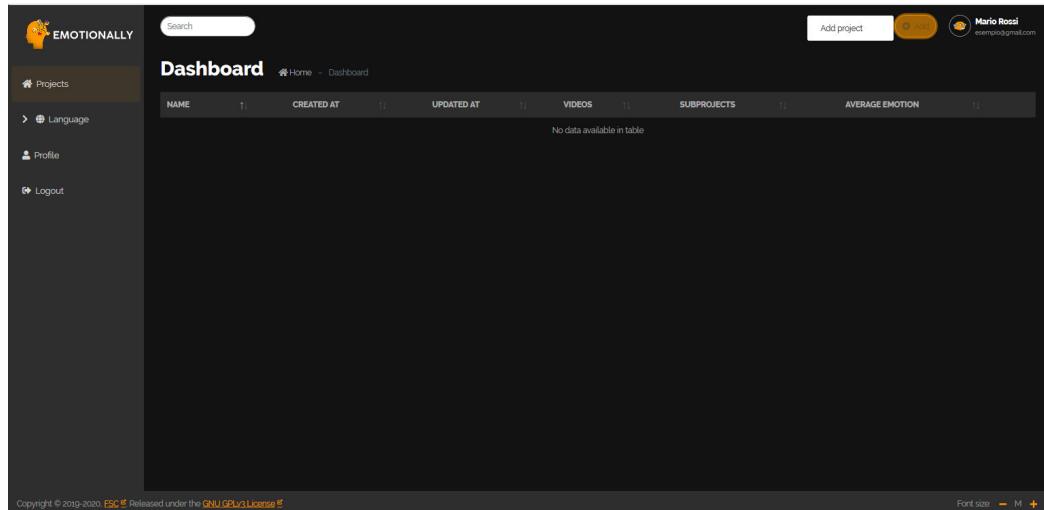
La parte destra del sistema rappresenta la principale zona di interazione con l'utente.

La Dashboard presenta un bottone *Add* che permette, cliccando sul link *Add project*, di creare un progetto. I passaggi sono illustrati nella sezione [Section 2.3.3.3.](#)

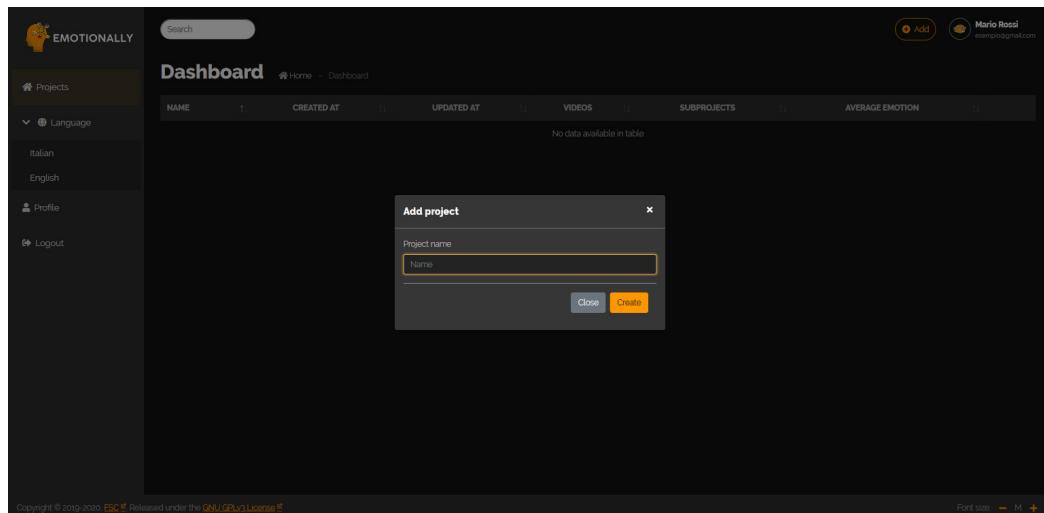
Creazione di un progetto

Per creare un progetto basta cliccare il pulsante *Add*, in alto a destra, e selezionare il link *Add project*.

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Il sistema richiederà il titolo del progetto che si intende creare.



Cliccando poi su *Create* il progetto verrà creato.

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The screenshot shows the Emotionally web application's dashboard. On the left, there is a sidebar with options: Projects (selected), Language (Italian, English), Profile, and Logout. The main area is titled 'Dashboard' and shows a table with columns: NAME, CREATED AT, UPDATED AT, VIDEOS, SUBPROJECTS, and AVERAGE EMOTION. A message at the top of the table says 'No data available in table'. In the center, a modal window titled 'Add project' is open, containing a green success message 'Project successfully created.' and a form field labeled 'Project name' with 'Name' typed into it. There are 'Close' and 'Create' buttons at the bottom of the modal.

Un messaggio di conferma verrà mostrato ad operazione completata. In caso di errore l'utente verrà notificato di un problema durante l'operazione.

Una volta terminata l'operazione, il nuovo progetto apparirà nella *Dashboard*.

The screenshot shows the Emotionally web application's dashboard after a new project has been created. The sidebar remains the same. The main dashboard table now includes a row for 'ProgettoProva', which was created on 21/02/2020, updated on 21/02/2020, has 0 videos, 0 subprojects, and an average emotion of Ø. To the right of the project name, there is a 'REPORT' button and three vertical dots indicating more options. At the bottom of the page, there is a copyright notice: 'Copyright © 2019-2020. Released under the GNU GPLv3 License.'

Sarà possibile *rinominare*, *eliminare*, o *gestire i permessi* del progetto appena creato cliccando sul pulsante *Altre Opzioni* (ovvero tre pallini verticali sulla destra della riga).

The screenshot shows the Emotionally application's dashboard. On the left, there's a sidebar with options like 'Projects', 'Language' (set to Italian), 'Profile', and 'Logout'. The main area displays a table of projects with columns for NAME, CREATED AT, UPDATED AT, VIDEOS, SUBPROJECTS, and AVERAGE EMOTION. Two projects are listed: 'ProgettoProva' and 'ProgettoProva2'. A context menu is open over the second project, with 'Permissions' highlighted.

Inoltre, sarà possibile visualizzare l'intero [Report del progetto] semplicemente cliccando sull'apposito tasto *Report*.

Permessi

La sezione *Permessi* permette di scegliere quali utenti possono effettuare operazioni di lettura, modifica, aggiunta o rimozione in un determinato progetto.

The screenshot shows the 'Share & Permissions' page for the 'ProgettoProva' project. The top navigation bar includes 'REPORT'. The main section has a heading 'ProgettoProva: Share & Permissions' and a sub-section 'Share the project'. Below this is a form to enter an email address ('email@example.com') and checkboxes for permissions: 'Can read?', 'Can edit?', 'Can add?', and 'Can remove?'. An 'Add' button is present. At the bottom, there's a table with columns for NAME, E-MAIL, CAN READ?, CAN EDIT?, CAN ADD?, and CAN REMOVE?. The table body contains the message 'No data available in table'.

Basterà inserire l'email dell'utente di cui si vogliono modificare i permessi e selezionare le operazioni che potrà effettuare.

REPORT

ProgettoProva: Share & Permissions

Home - ProgettoProva - Share & Permission

Share the project

NAME	E-MAIL	CAN READ?	CAN EDIT?	CAN ADD?	CAN REMOVE?	DELETE
Emmett Kuhn	clebsack@example.com	✓	✓	✓	✓	DELETE

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Font size: M +

Se la mail inserita è presente nel sistema, l'utente apparirà nella lista dei permessi presente nella medesima pagina.

Rinominare un progetto

Il pulsante *Rename* permette di rinominare un progetto già esistente. Una volta selezionata l'opzione, il sistema chiederà all'utente di inserire un nuovo nome per il progetto selezionato.

Search

Dashboard

Home - Dashboard

NAME	CREATED AT	UPDATED AT	VIDEOS	SUBPROJECTS	AVERAGE EMOTION	REPORT	⋮
ProgettoProva	21/02/2020	21/02/2020	2	0		REPORT	⋮
ProgettoProva2	21/02/2020					REPORT	⋮

Rename project

Project name

Name

Close Rename

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Font size: M +

Cliccando il pulsante *Rename*, il sistema notificherà l'utente dell'esito dell'operazione.

The screenshot shows the Emotionally application's dashboard. On the left, there is a sidebar with navigation links: Projects, Language, Profile, and Logout. The main area is titled "Dashboard" and shows a table of projects. One project, "ProgettoProva", is selected. A modal dialog titled "Rename project" is open over the project row, containing a single input field with the word "Success". At the top right of the dashboard, there is a user profile for "Mario Rossi" (esempio@gmail.com) and an "Add" button. The bottom of the screen includes copyright information ("Copyright © 2019-2020, Released under the GNU GPLv3 License") and font size controls.

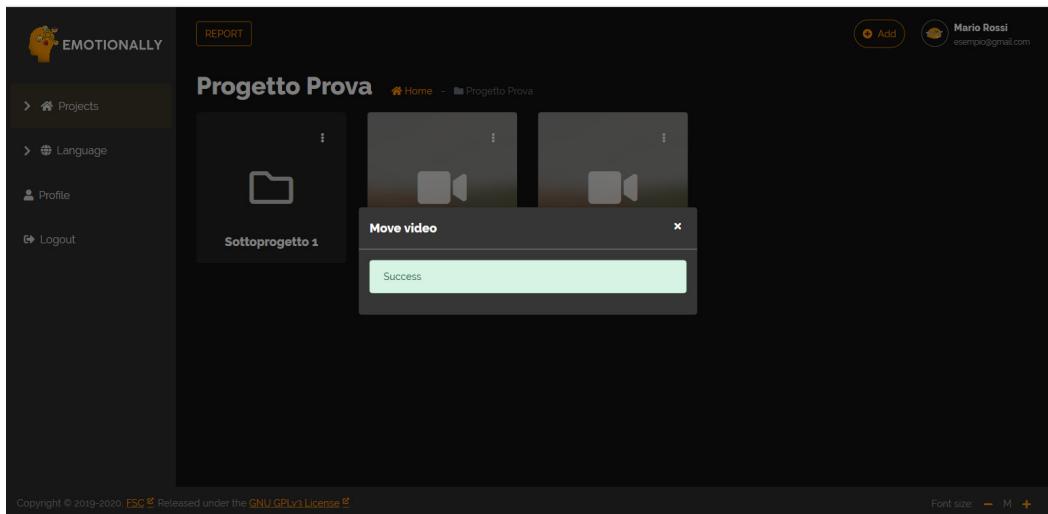
Spostare un progetto o un video

Il pulsante *Move*, accessibile sia cliccando sulle opzioni di un video sia su quelle di un progetto, permette di spostare uno dei due in un altro progetto di proprietà dell'utente*.

The screenshot shows the "Progetto Prova" details page. On the left, there is a sidebar with navigation links: Projects, Language, Profile, and Logout. The main area shows a tree view of projects and subprojects. A modal dialog titled "Move video" is open, prompting the user to "Select a destination project". It lists several projects: "Progetto Prova" (selected), "Sottoprogetto 1", "Progetto Prova 2", and "Sottoprogetto 2". At the bottom of the dialog are "No" and "Move" buttons. At the top right of the page, there is a user profile for "Mario Rossi" (esempio@gmail.com) and an "Add" button. The bottom of the screen includes copyright information ("Copyright © 2019-2020, Released under the GNU GPLv3 License") and font size controls.

Selezionata l'opzione, verrà mostrato l'albero dei progetti creati dall'utente, che potrà così scegliere in quale inserire il video/progetto da spostare.

Un messaggio notificherà l'utente dell'esito dell'operazione.



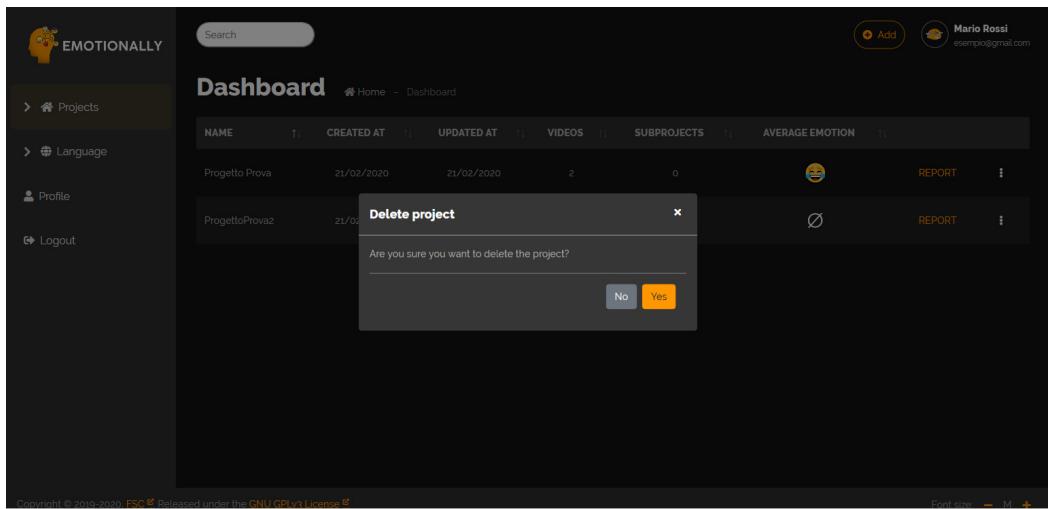
N.B.: E' possibile spostare il video anche in progetti che sono di proprietà di altri utenti, a patto di avere i permessi di aggiunta.

Eliminare un progetto o un video

Tramite il pulsante *Delete* è possibile eliminare un video o un progetto di proprietà dell'utente.

Una volta cliccato il pulsante, verrà richiesta un'ulteriore conferma dell'operazione per scongiurare click involontari.

N.B.: L'eliminazione di un progetto comporterà anche l'eliminazione di tutti i sottoprogetti e i video al suo interno.



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Se l'utente effettua il click sul bottone Yes, un messaggio notificherà l'utente

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dell'esito dell'operazione.

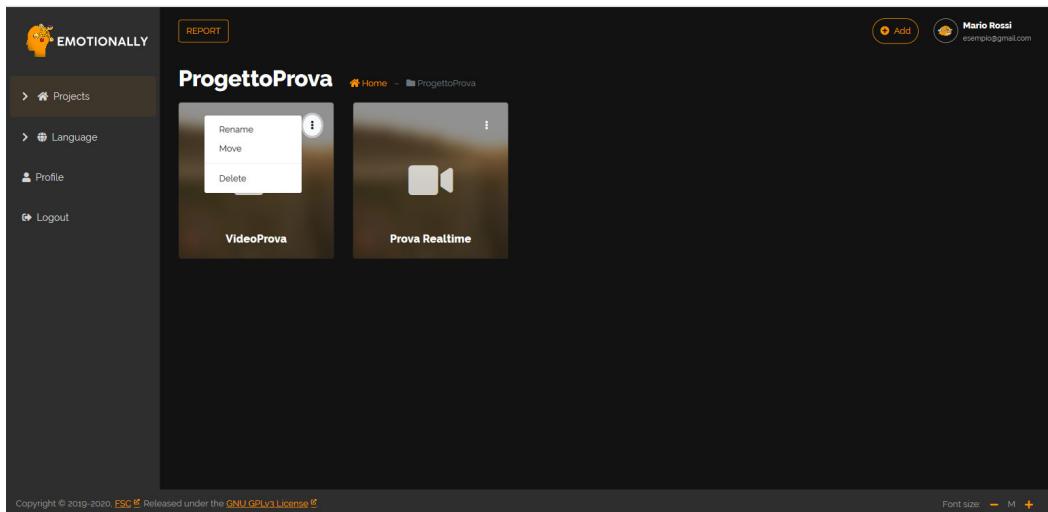
The screenshot shows the Emotionally application's dashboard. On the left, there is a sidebar with a user icon, the text "EMOTIONALLY", and links for "Projects", "Language", "Profile", and "Logout". The main area has a dark header with a search bar and a user profile for "Mario Rossi". Below the header is a table titled "Dashboard" with columns: NAME, CREATED AT, UPDATED AT, VIDEOS, SUBPROJECTS, AVERAGE EMOTION, REPORT, and three vertical dots. Two projects are listed: "Progetto Prova" and "ProgettoProvaz". A modal window titled "Delete project" is open over the second project, containing the message "Success". At the bottom of the page, there is a copyright notice "Copyright © 2019-2020. Released under the GNU GPLv3 License" and a font size selector.

2.3.4. Navigazione all'interno di un progetto

Per navigare all'interno di un progetto è necessario sceglierlo dalla tabella prensente nella *Dashboard*:

This screenshot is similar to the previous one, showing the Emotionally dashboard. The sidebar on the left includes a "Language" section with "Italian" and "English" options. The main dashboard area shows the same table with two projects. The first project, "Progetto Prova", is now highlighted with a blue background. A modal window titled "Delete project" is still visible over the second project. The footer contains the same copyright and font size information.

Cliccando sul progetto desiderato, si entrerà nella pagina di navigazione dello stesso. Appariranno i sottoprogetti e i video che esso contiene, come se fosse una cartella del sistema operativo.



E' possibile, durante la navigazione, effettuare le operazioni di: - Creazione di un sottoprogetto - Caricamento di un video - Registrazione di un video in tempo reale - Gestione dei permessi di un sottoprogetto - Visualizzazione del report di un sottoprogetto - Visualizzazione di un report del video

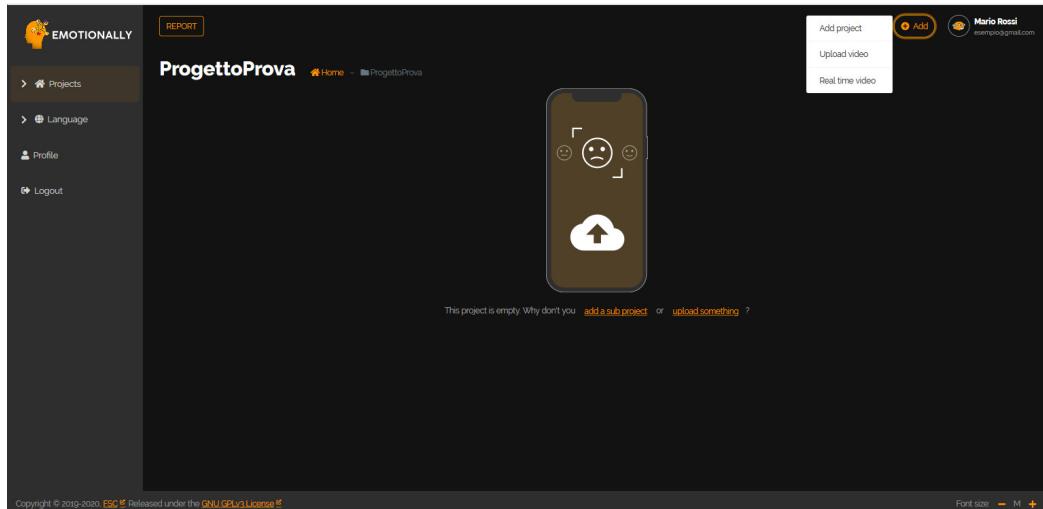
Qui di seguito verranno illustrate tutte le operazioni sopracitate.

Creazione di un sottoprogetto

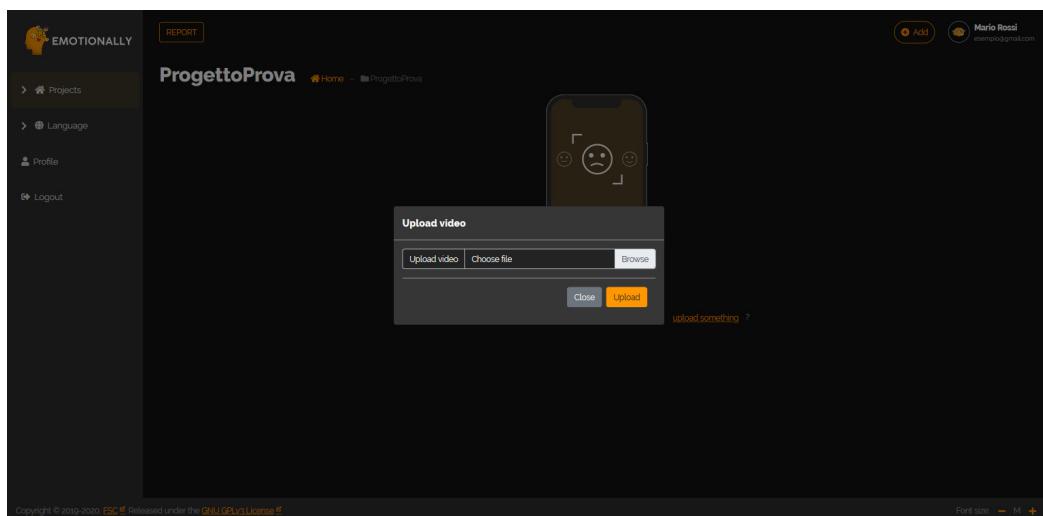
Per creare un sottoprogetto si può fare riferimento al paragrafo [Section 2.3.3.3.](#)

Caricamento di un video

Per caricare un video all'interno di un progetto o sottoprogetto è sufficiente cliccare il pulsante *Add*, presente in alto a destra.

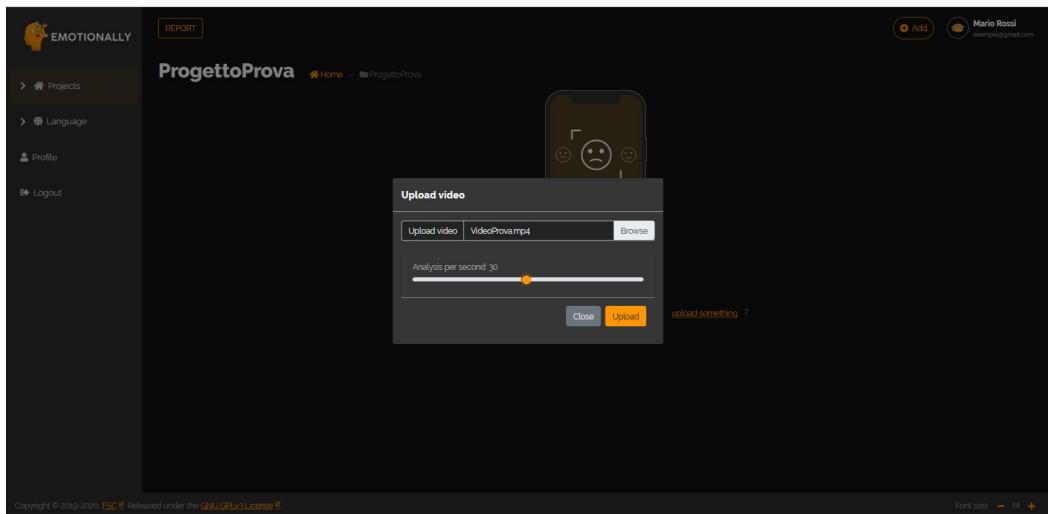


Successivamente è necessario cliccare il link *Upload video*.

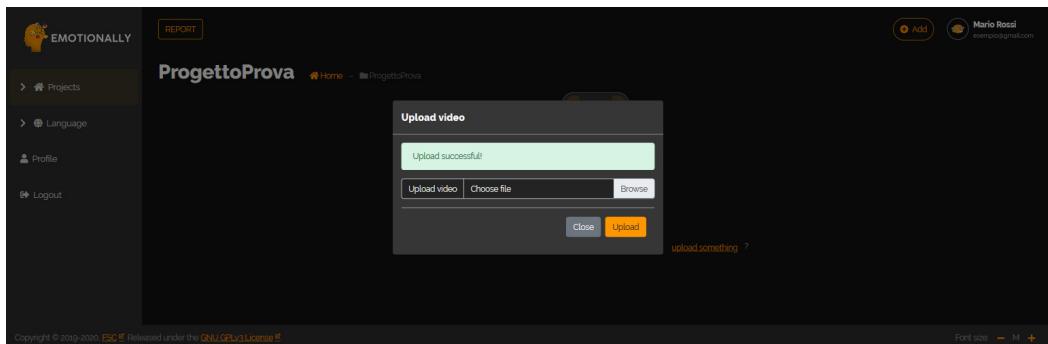


Cliccando il campo *Choose file* si aprirà l'esplora risorse del sistema operativo da cui si potrà selezionare uno o più video.

Successivamente, apparirà un selettore da cui si potrà selezionare la frequenza di analisi per secondo.



Per finalizzare il caricamento bisognerà cliccare sul pulsante *Upload*.

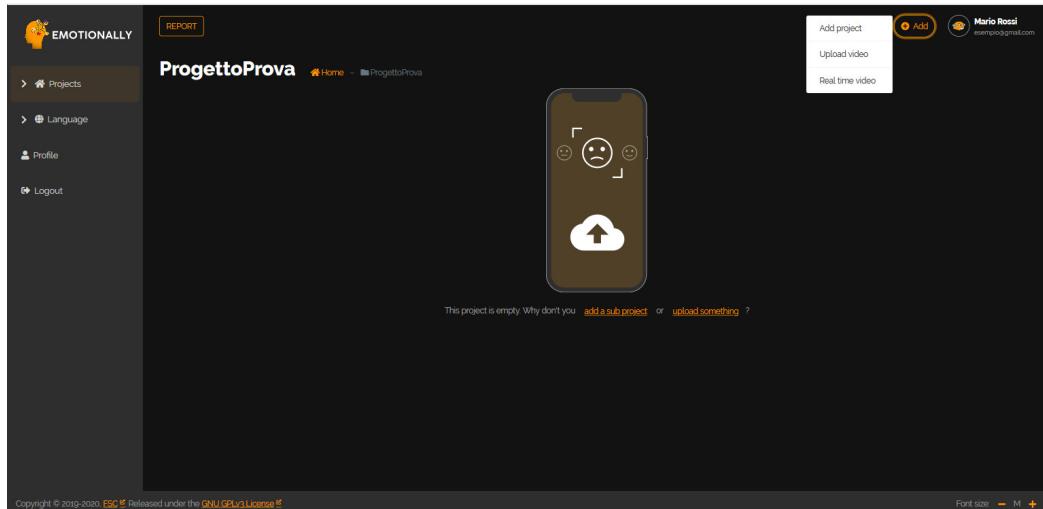


A caricamento effettuato apparirà un alert che notificherà l'utente sull'esito dell'operazione. Successivamente si potranno caricare altri video o tornare alla navigazione.

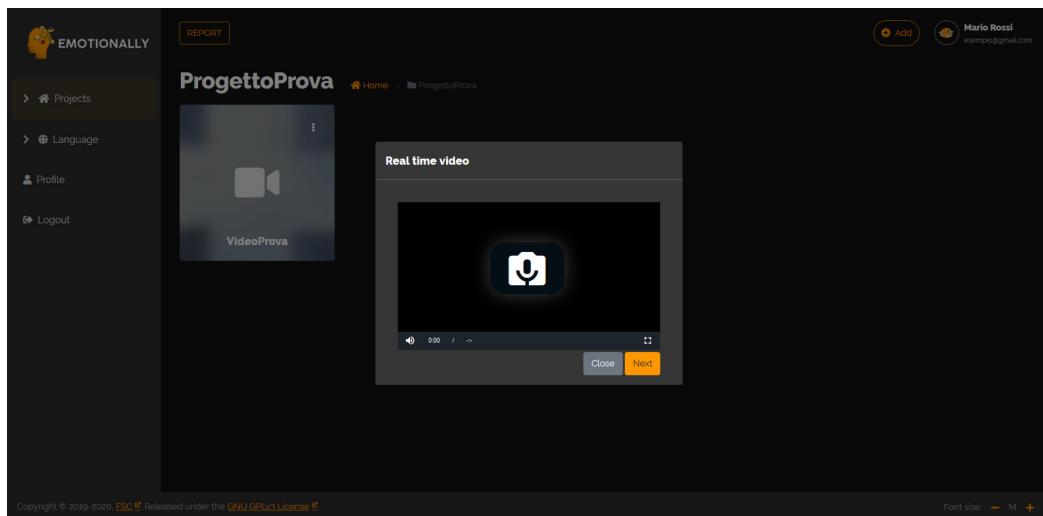
Registrazione di un video in tempo reale

Per registrare un video in tempo reale e aggiungerlo all'interno di un progetto o sottoprogetto è sufficiente cliccare il pulsante *Add*, presente in alto a destra.

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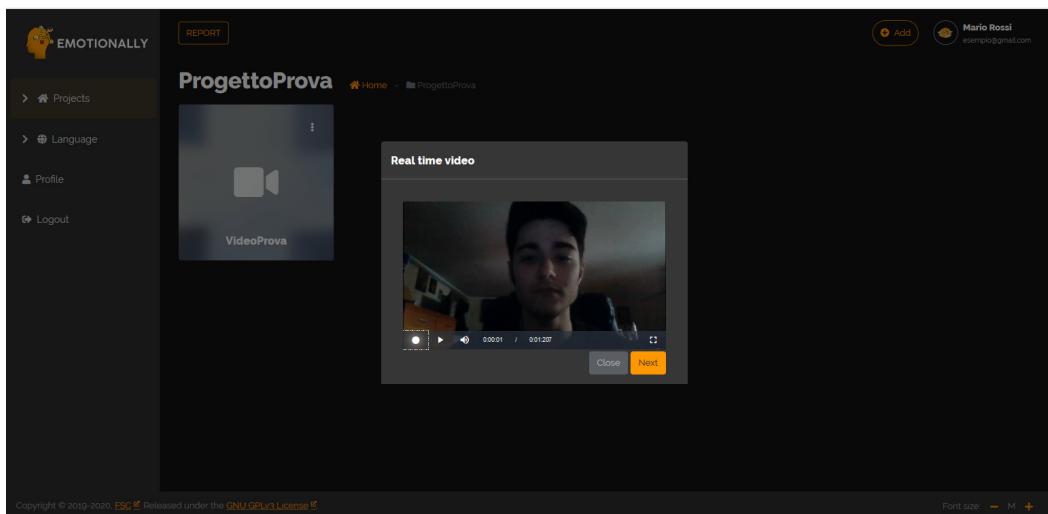


Successivamente è necessario cliccare il link *Real time video*.

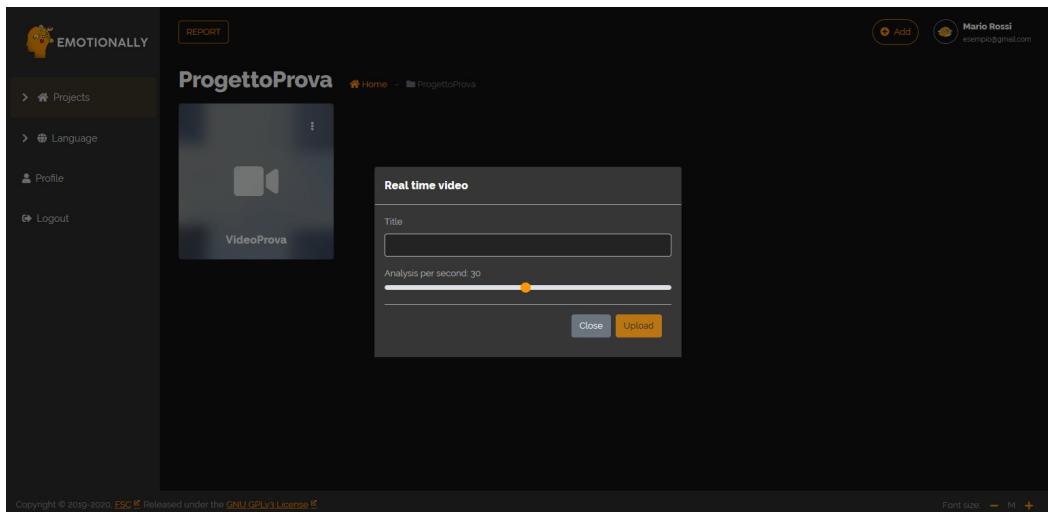


Cliccando sul pulsante al centro del player video il sistema richiederà i permessi per utilizzare la webcam e il microfono al browser. Sarà quindi necessario consentirne i permessi per il corretto funzionamento.

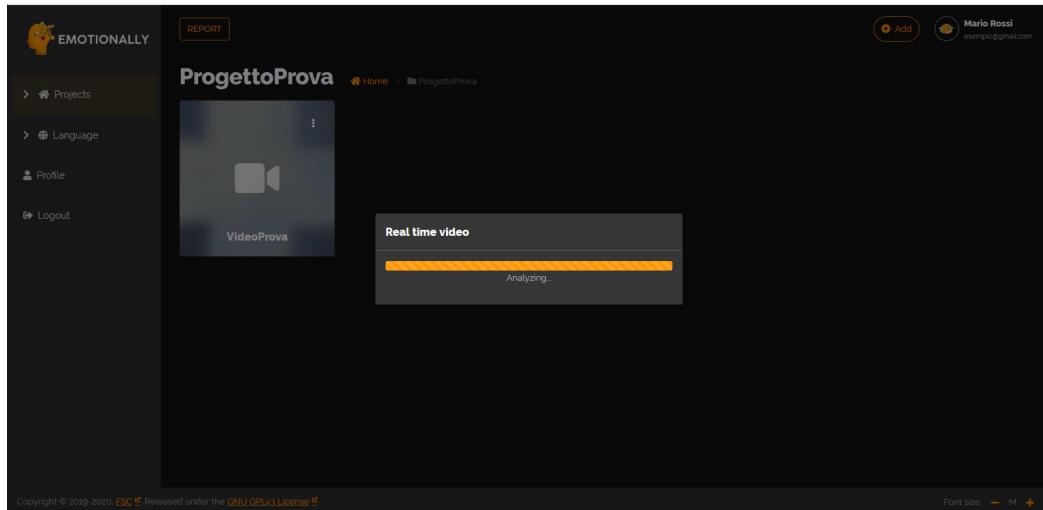
Apparirà, quindi, la visualizzazione in tempo reale della webcam e sarà possibile procedere alla registrazione del video cliccando il "pallino bianco" (o pulsante di *Rec*) in basso a sinistra nel player.



Si potrà poi fermare la registrazione cliccando sul "quadrato" (o pulsante di *stop*), che apparirà dopo aver cliccato il pulsante di *Rec*. Successivamente, cliccando sul pulsante *Next* in basso a destra, sarà possibile assegnare un titolo alla registrazione e seglierne le analisi per secondo.



Cliccando poi su *Upload* si porcederà al caricamento del video e alla successiva analisi.

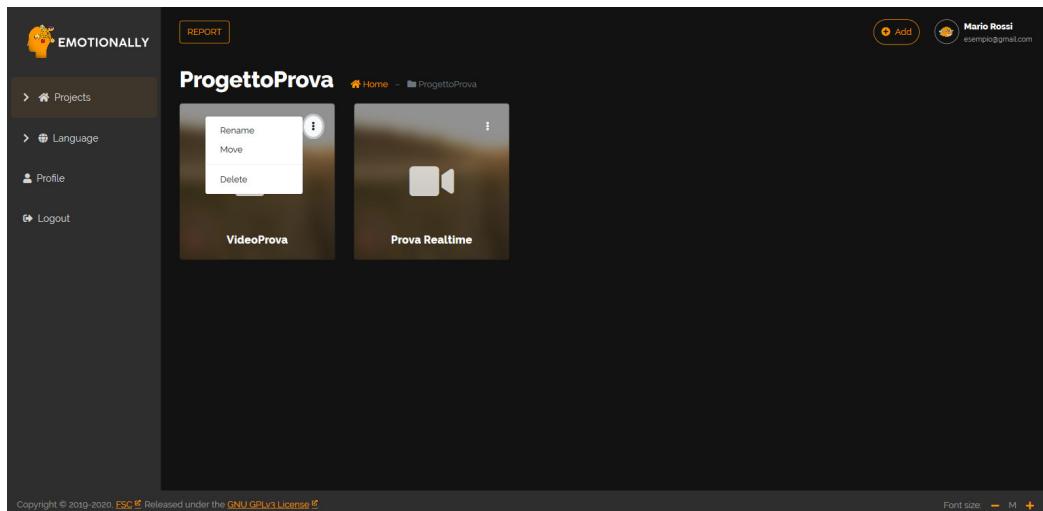


Terminata la procedura l’utente verrà notificato sull’esito della stessa e sarà possibile tornare alla navigazione.

Gestione dei permessi di un sottoprogetto

All’interno della navigazione è possibile accedere ai permessi di un sottoprogetto per aggiungerli, modificarli o rimuoverli.

Sarà sufficiente cliccare sul pulsante *Menù* del sottoprogetto desiderato (i tre puntini verticali in alto a destra all’interno del “quadrato”) e, successivamente, cliccare sul link *Permissions*.



Si aprirà la pagina dei permessi, già illustrata nella sezione [Section 2.3.3.4](#).

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N.B.: I permessi possono essere assegnati ai soli progetti o sottoprogetti, non è

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possibile assegnare permessi ai video. Tuttavia, i video "ereditano" i permessi del progetto in cui si trovano.

Visualizzazione del report di un sottoprogetto

Una volta entrati in un sottoprogetto, è possibile visualizzare il [Section 2.5](#), cliccandovi sopra. In alternativa, attraverso il bottone *Report*, presente in alto a sinistra durante la navigazione all'interno di un progetto, è possibile visualizzare il [Section 2.4](#).

The screenshot shows the Emotionally web interface. On the left, there's a sidebar with a logo, navigation links for 'Projects', 'Language', 'Profile', and 'Logout'. The main area has a dark header with a 'REPORT' button, the title 'Sottoprogetto 1', and a breadcrumb trail: Home - Progetto Prova - Sottoprogetto 1. Below the header is a large thumbnail image labeled 'VideoProva'. At the bottom, there's a copyright notice and a font size selector.

2.4. Report di un progetto

Attraverso il pulsante *Report* è possibile visionare l'intero report di un progetto.

The screenshot shows the Emotionally web interface for the 'ProgettoProva' project. The sidebar is identical to the previous screenshot. The main area features three charts: a 'Spider Chart' showing emotion levels across six categories (Surprise, Joy, Sadness, Contempt, Anger, Fear), a 'Bar Chart' showing the frequency of emotions (Joy, Sadness, Disgust, Contempt, Anger, Fear, Surprise), and a 'Frequent emoji' section with a large yellow emoji of a laughing face and the word 'Joy'. The footer contains a page number and a font size selector.

E' possibile visionare l'analisi delle emozioni media dei video all'interno del progetto sottoforma di diversi grafici.

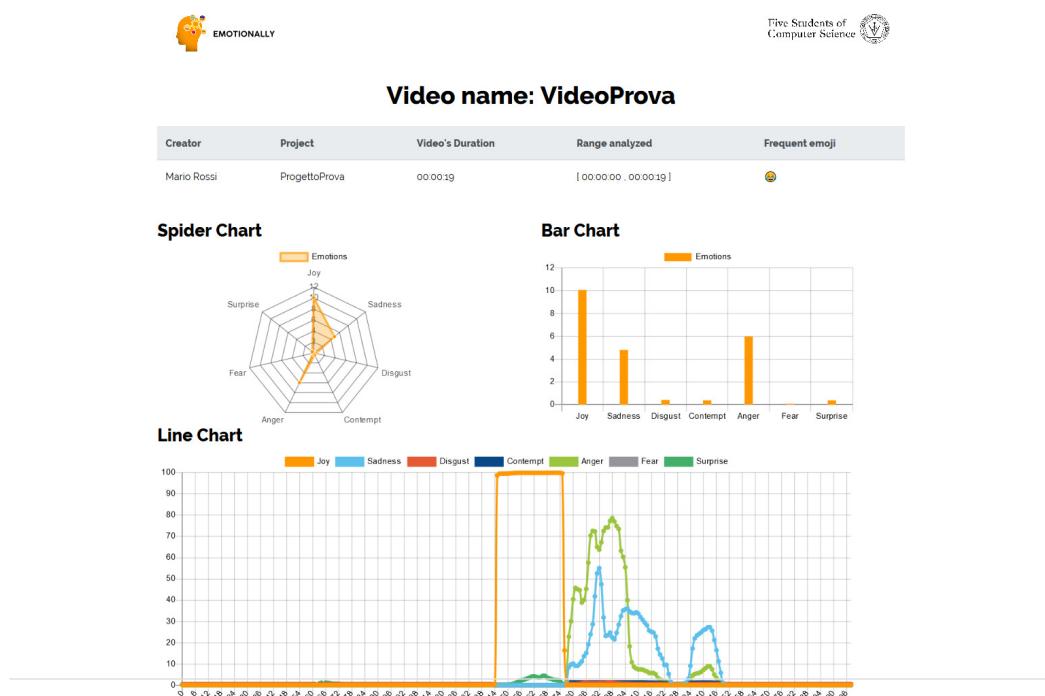
Lo *Spider Chart* e il *Bar Chart* offrono una visualizzazione più dettagliata rispetto all'emozione media (rappresentata tramite un'*Emoji*). Essi consentono di conoscere i parametri medi delle emozioni.

2.4.1. Scaricare i dati di un report

Attraversi il pulsante *Download* è possibile scaricare il report del progetto in uno dei seguenti formati:

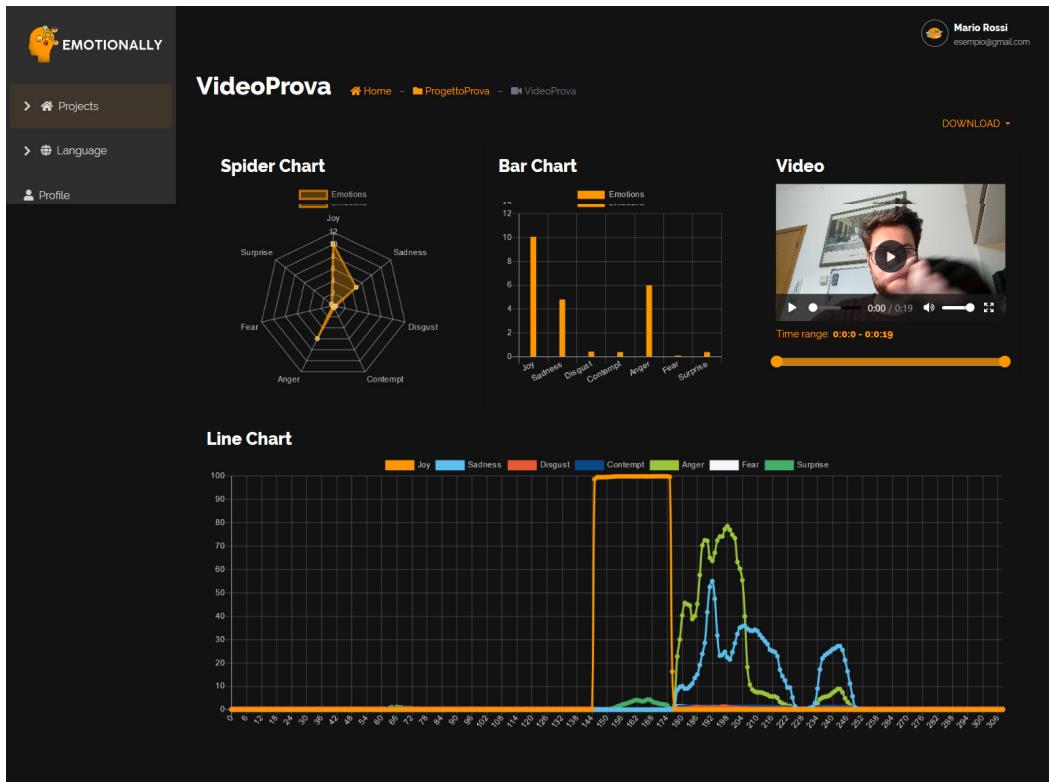
- *PDF*
- *HTML*
- *JSON*
- *EXCEL*
- *PPTX* (Presentazione Power Point)

Di seguito si mostra un esempio di visualizzazione in formato *HTML* (analogia alla visualizzazione *PDF*).



2.5. Report di un video

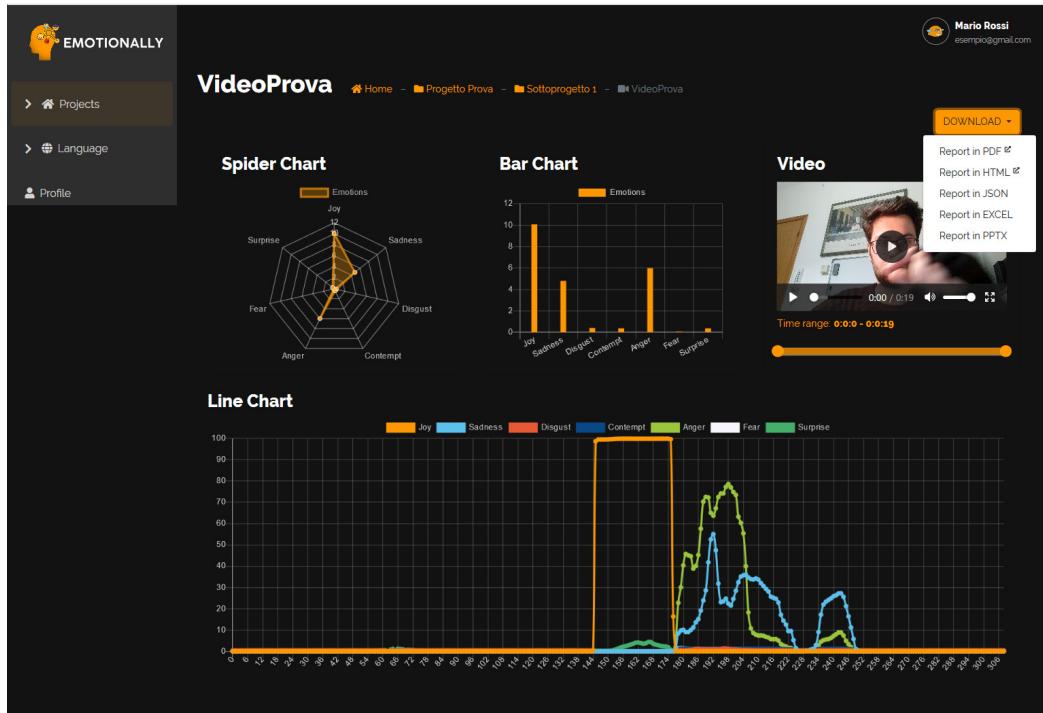
Cliccando su di un video verrà visualizzato il suo report. E' presente un player per riprodurre il video ed uno slider per effettuare l'analisi di determinati intervalli del video.



Rispetto ai [Section 2.4](#), il report di un video mostra anche il *Line Chart* che permette di visualizzare il valore preciso di una determinata emozione (da 0 a 100) in una delle rilevazioni effettuate dal sistema di analisi (variabile in base alle analisi per secondo e alla lunghezza del video).

2.5.1. Scaricare i dati del report di un video

E' possibile scaricare i dati di un report video in modalità identiche a quelle viste per i progetti (dettagliati nella sezione [Section 2.4.1](#)).



2.6. Profilo

Dalla sezione *Profilo* è possibile cambiare i propri dati, quali: *Nome*, *Cognome* e *Password*.

The screenshot shows the 'Profile' edit page. The left sidebar includes links for Projects, Language, Profile, and Logout. The main area is titled 'Profile' and contains the following fields:

- Name*:
- Surname*:
- Old password*:
- New password:
- Confirm new password:

At the bottom are two buttons: 'RESET' and 'SAVE'.

At the very bottom of the page, there's a copyright notice: 'Copyright © 2019-2020 FSC Released under the GNU GPLv3 License' and a font size adjustment bar.

Attraverso il pulsante *Reset* è possibile ripristinare le eventuali modifiche effettuate e non salvate, mentre attraverso il tasto *Save* verranno salvati i cambiamenti effettuati. Un messaggio notificherà l'utente dell'esito dell'operazione.

The screenshot shows the 'Profile' section of the Emotionally application. At the top, there's a navigation bar with links for 'Projects', 'Language', 'Profile' (which is highlighted in dark grey), and 'Logout'. On the right, a user profile is displayed with the name 'Mario Rossi' and an email 'esempio@gmail.com'. Below the navigation, a green banner says 'Profile changed'. The main form contains fields for 'Name*' (with 'Mario' entered), 'Surname*' (with 'Rossi' entered), 'Old password*', 'New password', 'Confirm new password', and a 'RESET' button. A 'SAVE' button is located at the bottom right of the form. At the bottom of the page, there's a copyright notice: 'Copyright © 2019-2020 FSC Released under the GNU GPLv3 License' and a font size adjustment menu.

Profile changed

Name* Surname*

Mario Rossi

Old password*

New password

Confirm new password

RESET SAVE

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Font size: - M +

Capitolo 3. Informazioni aggiuntive

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