F.R.A.M.E

User Manual(WIP)

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   1. Purpose

The system is designed to use facial recognition to identify students when attending their classes and lectures. F.R.A.M.E matches the face to the register and then will mark the student in as attended, late or absent. Purpose of F.R.A.M.E is to give a new way to sign in for attendance using facial recognition instead of other methods such as paper registers.

* 1. Scope

The manual is designed to guide the student/ staff to be able to navigate F.R.A.M.E. This manual covers how to use the system and how it works.

1. Sign in

When the lecture is about to begin, F.R.A.M.E will start and display on the screen feedback of the camera. There will be the time and date on the screen as well as the time of the lecture. Once in the camera view the student will be requested to press the sign in button. When the sign in button is pressed F.R.A.M.E will take a photo and then match the photo to the database this then will display if the student has been signed in, signed in late or not meant to be in the lecture (error).

* 1. Successful sign in

If F.R.A.M.E has successfully found the student in the database there will be a green tick displayed on the screen, this indicates that the student has been signed in.

(image)

* 1. Late sign in

If the student is late for their lecture they can still sign in, but F.R.A.M.E will indicate that the student is late by displaying an amber tick. This means that the student is signed as attending but late.

(image)

* 1. Unidentified user

If the student cannot be recognised within the database a red cross will appear on the screen and the student will have to speak to the lecturer either to discuss why this has occurred or because the student may be in the wrong room, since they may not be on the register for the specific lecture.

(image)

1. Completed register

When the lecture has finished F.R.A.M.E will send an email with a pdf of all the students who attended, attended but late and did not attend. This will be sent to the lecturer via email. Once the email has sent F.R.A.M.E will standby or have the next lecture up if there is one after. (image)

1. Options & Settings

F.R.A.M.E has two different modes; the first mode is the student mode. This mode will not show the options bar at the top of the screen, this is so the students cannot access the settings and change the options. The other mode is for the teacher or individual in charge. This mode gives the options to the person in charge. There is also a help menu added, this is to help with any confusion there may be. There is a select room button that will allow you to type in the room number and this then gets the register for that room number. The default room is 1, if the room is not found an error message will appear but if the room is found the window will close and change the room once submit has been pressed. When selecting room numbers instead of having to type the room number there will be a drop down of rooms to select from to make the process more efficient. The close box isn’t visible to students until the escape key is pressed.

Once the class is found a box will appear on the screen that displays what class is about to take place and more information such as starting and ending times and room number.

1. The GUI

On screen there will be a centre box with a black outline which will show the camera feed, this will show where the student must present their face relative to the camera positioning. The GUI includes a Sign in button under the camera so it is easily visible, to the right of this there will be a information box that gives a description of what class is taking place, what time the class is and where it is. The GUI also shows the date and time to the students. When the student has signed in the green tick or red cross will appear.

(image)