A client has come to you with a proposal about a doorbell system that he wants to get made. The client has a few peculiar requirements that need to be ironed out before you get down to developing the system. The explanation is given below followed by questions relating to the extracted requirements.

**Explanation:**

I want a doorbell to be made that is non-intrusive. Whenever someone presses the doorbell, a sound is heard at his end but inside the house, no sound is heard Inside the house by default. We will have blinking flashing lights that will indicate that someone is at the door.

The user will also have the option to turn the sound on or off and also the intensity of the sound itself. The user should be able to change the color of the flashing lights and also to turn them off. All this should be done with an app in a mobile phone. The should be both Android and iOS based.

Whenever someone rings the bell, his photo is taken and sent to the user on his/her mobile phone. A small video is also recorded that is uploaded on a server. The video should not be bigger than 20 MBs. The picture should be sent to the user’s phone instantly.

The user must have a few default messages that he/she can select once the door is rung to send to the person at the door. When the user selects one of the messages, the doorbell should say the message with a 2 second delay.

The user must also have the option to open the door from the mobile phone. Whenever the user chooses this option, the system should ask the user again if the door should be opened.

**Requirements:**

Req1: When the doorbell is pressed, the person pressing the doorbell hears a sound

Req2: When the doorbell is pressed sound is heard

Req3: When the doorbell is pressed lights within the house blink

Req4: User will have the option to turn the sound on or off

Req5: User will have the option to change the intensity of the sound

Req6: User will have the option to turn the lights on or off

Req7: User will have the option to change the color of the lights

Req8: There should be a mobile app to control all the sound and light controls

Req9: The app should be made for Android or iOS

Req10: Whenever the doorbell is pressed, the photo of the person pressing the bell should be taken

Req11: A small video should be recorded and uploaded to a server

Req12: The size of the video should not be bigger than 20 MBs

Req13: to facilitate small size of the videos, they will be recorded as mpeg files

Req14: The picture should be sent to the user’s mobile phone

Req15: The user can play default messages from his/her mobile phone that will be played at the bell to inform the person at the door

Req16: The messages should be transferred with a 2 second delay

Req17: The user should be able to open the door from the mobile app

Req18: The app should ask the user to confirm if the door should be opened or not