Gesto-voz MEDIA PLAYER

TEAM NAME: SONIOS

TEAM MEMBERS:

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AIM: To design a media player which is gesture controlled as well as sound controlled.

MOTIVATION:

➢ Most of us like watching movies lying in bed, in absolute comfort. So, keeping this in mind we propose a gesture and sound controlled media player .

➢ Sound control is desirable for blind people to navigate through the media player.

THEORY AND IMPLEMENTATION:

We will divide our project into 3 parts:

➢ First part will deal with creating media player graphical user interface using Visual studio.

➢ Second part will have image processing using OpenCv to make out different hand gestures corresponding to different commands like 'pause','play','forward','volume' etc.

➢ Third part will include processing sound commands given through microphone and implementing it in media player.

We will then integrate these three components into one gesture and sound controlled media player.

THINGS WE WILL LEARN:

- ➢ Graphic interface design using Visual studio
- ➢ Image processing using OpenCv python.
- ➢ Audio processing using OpenCv audio library.

TIMELINE:

WEEK 1:

1) Discuss the project overview.

2) Install required softwares.

3) Discuss implementation details.

4) Divide the work among team members.

WEEK 2:

1) Learning usage of OpenCv for image and voice processing.
2) Learn Visual studio.

3) Draft basic design of media player.

WEEK 3:

1) Develope media player and gesture control separately.
2) Studying audio processing by using opencv

WEEK 4:

1) Implementing sound recognition and integrating the whole unit.

WEEK 5:

1) Our project will mostly complete by now.So, we will proceed with debugging and testing.

COST: INR 0/-