

# Google summer of code 2023

## VLC qt interface redesign

### Section 1:About Me

My name is **Suraj Shikhar**. I am a second year undergraduate student at IIIT Senapati, Manipur, India, pursuing Computer Science and engineering.

### What project am I applying for?

I am applying to improve the outdated interface of VLC on linux and windows, using my qt and C++ knowledge.

### Why am I interested in working with VLC and on my chosen project?

- I am interested in this project because I have used VLC first hand all the time and have personally experienced all the shortcomings in current design.
- In all other projects available in VLC this one also matches with my profile so I would like to apply my expertise here.

### Prior Experience

- I have been participating in Hackathons organised by flow and many other big firms.
- I have completed an offline internship in my 3rd semester of college.

### Development Experience

S.no	Language
1.	C
2.	C++
3.	Python
4.	qt

S.no	Skills
1.	git
2.	MYSQL
3.	linux

### Project size

I am applying for a large project(~350hr)

### **Project Timeframe**

- May 15 to Aug15

### **Contact info and timezone(s)**

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- Contact Number: +91 7209714636
- GitHub: <https://github.com/Suraj-Shikhar>
- Discord: suraj\_shikhar#8355
- Time Zone: Kolkata ,India (GMT +5:30)
- Preferred mode of communication: Hangout, Email, Google meet,Discord and Slack

### **Time Commitment**

I am having summer vacation from 15 May to 13th July. In this time frame, I would be able to devote ~40 hr/week. After that, I would be able to devote ~30 hr/week. which may increase if the need arises. I am working on the GSoC project from 15th May to 15th August timeframe ( Note: can be extended if the need arises)

s.no	Dates	Days(Total)	Time Commitment
1.	15th May-13th July	Mon-Sun(7)	6hr/day(Mon-Sun)
2.	14th – 15th Aug	Mon-Sun(7)	4hr/day (Mon-Fri) 5hr/day(Sat-Sun)

**Estimated Total Working Days:** 90

**Estimated Hours:** 350 hrs (This may change as per requirements).

### **Other Summer Obligations**

Currently I do not have any summer obligations.

### **Communication Channels**

I am active on Emails, Hangouts, and Discord. I can work with whatever platform that my mentor prefers. Meetings can be held every week to discuss progress in the project.

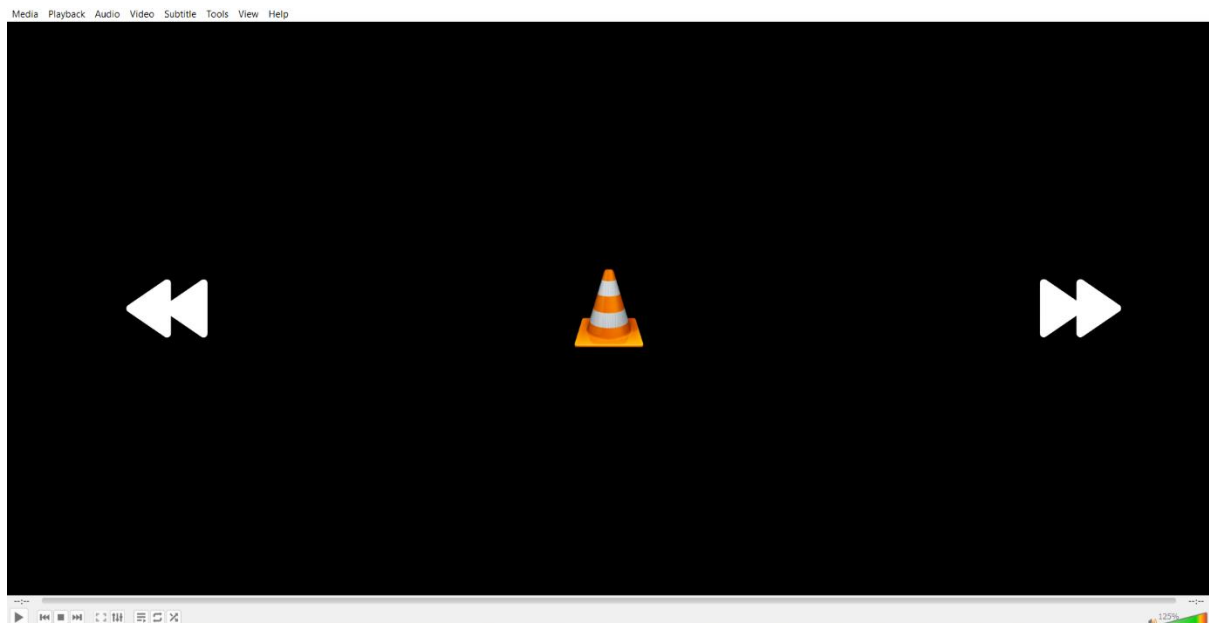
## **Section 2:Proposal Details**

The VLC interface is quite outdated on Linux and Windows. It has a lot of features, but some are not properly exposed and there are some features which is still not there. VLC is a widely used media player and any improvements to its interface could benefit a lot of people.

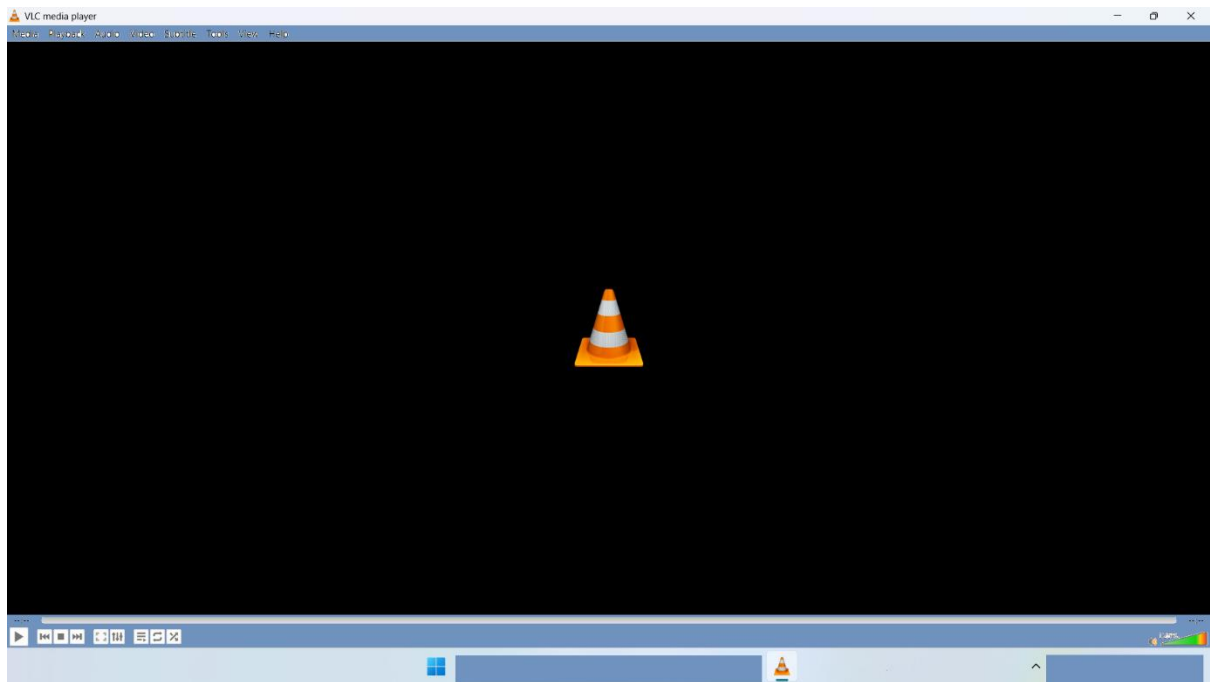
### Planned Upgrades

- We can add a step in installation setup in which users will be asked which look do they prefer aesthetic , general or visually kind(these names can be changed during production)
- New generation people likes aesthetics in everything for them we can bring translucent panel(our end goal should be to attract as many users as possible)
- For modern look I can make the buttons get enlarged when cursor is taken over them.
- A feature to forward and backward the media with double clicks just like Youtube (many new comers will find it familiar and the existing users will also find it universally acceptable )
- VLC should be easily accessible to all (for partially blind to elderly) and for that I can try to add a feature in which sound of button will be pronounced when cursor is taken over them.
- The most common thing I have observed is less accessibility of existing features, We can add a complete new button so that people can go there and get a video tutorial of the particular feature.
- It happens many times that I scroll mouse to lower the volume but the video gets forward or backward which affects my experience for this we as a team can find a solution or I suggest that video should only change when cursor is on the timeline bar.

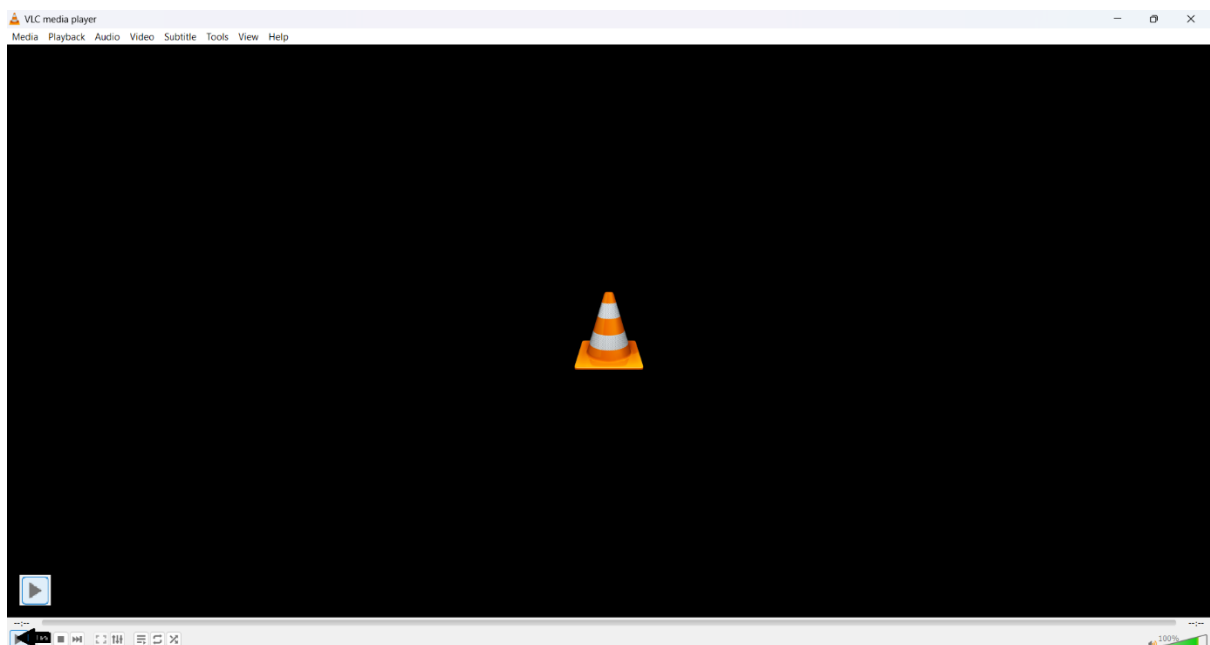
### Future Visuals



- The double tap feature will look like this when mouse is clicked twice.



- The translucent panel will look something like this.



- A play sound can be heard right now and the button got enlarged, this will help the elderly and visually challenged people.

## Timeline

Week	Deliverables
Week 1-2:	I will get familiar with the team and system will try my best to complete the setup for coding period.
Week 3-4:	In this period I will make the floating buttons enlarged.
Week 5-6:	I will work on gestures to make it fluid to use.
Week 7-8:	After the reviewing from the mentor we will start working on frame of media player
Week 9-10:	I will start work on rest of the features like voice over for buttons and other features for visually challenged people.
Week 11-12:	This will be the finishing period in which all the features will be ready and refined for general users use.

Future Work Note: This section is mainly for reference (since it is understood that items in this section will not be part of the GSoC project). Proposals will primarily be evaluated based on the implementation plan above.