CSE 566
Project Proposal

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1 Project Title

Mobile Phone Interface using Augmented Reality

2 Description

The aim of the project is to create a mobile phone interface in Augmented Reality. We aim to project the contents of a mobile phone application on the space around the user. All the applications would be visible in the space around and the user can pick any app to run at a time.

With all this content available in a large field of view, user can interact with the phone in an immersive manner, with all the phone's vital information being present in his/her field of view. This feature can be used while using Google Maps or some other application that aids user by providing him instructions in real time.

This can be used by the user to browse the internet, or view his calendar, make calls etc. These are just few of the many uses of such a system.

We plan to project our content on surfaces that will be able to provide a better contrast and clarity to the content projected.

3 Hardware Used

Magic Leap/Hololens (Not confirmed yet)

4 Future Scope

As a follow up work, one can tweak the AOSP (Android Open Source Project) to make a VR friendly version of the Android Operating System. This would have the option of running multiple applications concurrently in the foreground.

Our goal is to make the user feel that he is present in a world surrounded by his applications and we want to make this experience as rich and as natural as possible. We believe this will be a significant development in Augmented Reality world if we are able to meet most of our goals.