Networking Project Proposal

CPTR 328, Fall, 2018: Jonathan Batchelder, Trevor Williams, Jonathan Ziesmer

# Description

The goal of this project is to create an augmented reality calendar app. It will allow the user to create an account, create events, and view events. We will create a PostgreSQL database with the Django python library to store the data. The database will be hosted on a Raspberry Pi using Flask. The data will be presented to the user using a simple AR app built in Unity and run on a Google Pixel in a Google Cardboard. We will write a protocol to allow the server and the AR app to communicate.

We won’t need any resources from the school of computer science.

# Research Component

There are currently several companies trying to sell augmented reality glasses. However, all of them suck. Here’s why. Perhaps many reality glasses didn’t do well because there hasn’t been much AR content available. Another reason is because the public is afraid of the privacy concerns generated by glasses mounted on users’ faces. However, with an increasing amount of AR content, such as our calendar app, Pokemon Go, and Snapchat, augmented reality glasses may be become more successful in the future. Our research paper will further explore the shortcomings of the current AR industry.

# Deliverables

Project deliverables will include:

1. Webserver source code
2. AR app source code
3. Protocol design/analysis
4. Report
5. Presentation

# Division of Work

Database/backend - Jonathan Ziesmer

Unity/frontend - Jonathan Batchelder

Networking protocol - Trevor Williams