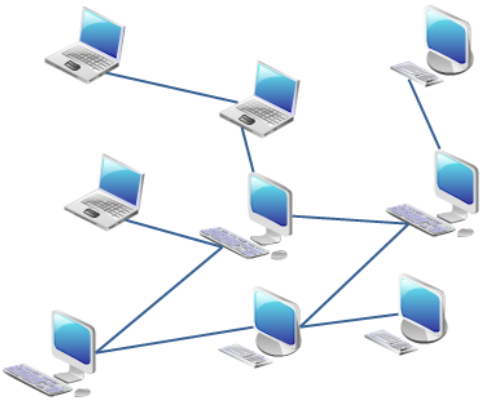
LUC Computer Science Fall 2015 Project Presentations



The State of Android Open-Source P2P and the AllJoyn Framework
Brian Gathright, Tyler Bobella, Konstantin Läufer

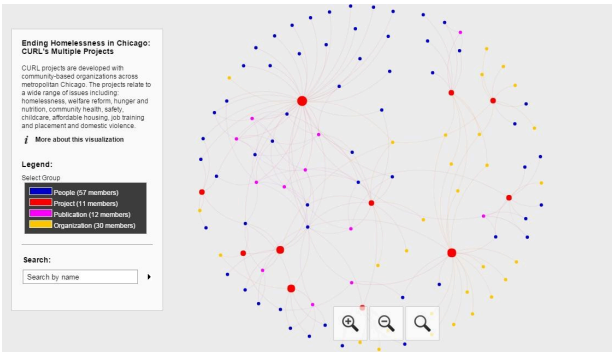
Initially, we sought to continue work on the Android Wall Project (a cluster of Android devices that can work in unison in a Peer-to-Peer manner. We began doing research on other open-source Peer-to-Peer projects, and found the results lacking. However, there are several frameworks that facilitate developing peer-to-peer projects on the Android platform. This talk will layout the current state of open source Peer-to-Peer projects on Android and then focus specifically on a open source framework called AllJoyn (https://allseenalliance.org/framework/documentation).

The Amazing Maze
Ruqaiyah Safiyuddin, Thomas Atchley, George Haley

This is a maze game in which you must navigate through the maze in order to find the treasure. The twist is that the maze is hidden, which means that all the squares are blacked out. In order to move, you are only allowed to click on an adjacent square, and this will reveal the square. However, depending on the difficulty you are playing, you will encounter walls; walls are red squares and they prevent you from moving into that particular square. When you find your treasure you can see how long it took you to finish the maze, and how many moves you made.

Memory Match Challenge
Kaylene Hung, Ruqaiyah Safiyuddin, Ann Jakubczak

This is a matching game in which you match your ABC's. There will be a grid with numbered squares, and you pick the 2 square numbers that you want to turn over. After doing this, a second grid will momentarily appear below and this will show you the letters behind the grid squares that you picked. If they are a match the letters will become visible on the top grid, otherwise the original grid square numbers will remain on the grid. Keep choosing grid square numbers until you manage to match all the letters on the grid. After you have matched everything, you have won the game and you can see your game time as well as the number of guesses that you made.



CURL Network Visualization
Heather Linich, Katharine Herringshaw, Nick Hayward

We have been working on creating a data visualization for the Center for Urban Research and Learning (CURL). The goal was to show the strong connections between people, publications, projects and organizations using a network visualization. CURL also wanted to incorporate the use of dynamic features including various types of filtering so users can drill down into the data, a timeline slider showing the duration of projects and those connected with the projects, while connecting it to a central diagram. CURL sought to create a global feeling so we designed the visualization with a circular network pattern. In addition to the use of the visualization on their website, the back end of the data can be used to analyze the various connections and help them achieve valuable insight to their existing relationships and quickly determine new relationships.

Cozy Homes

Pallavi Aggarwal, Madhura Joshi, Smruti Tatavarthy

Cozy homes is an application built for the real estate business. Real estate organization can maintain a database of the different properties they have (1 Bed Apt, 2 Bed apt etc), price, location, lease and their rating using this application. Users and administrators both have the provision to use this application. Users can use this app to search for homes and administrators can modify the attributes of properties like price, lease, add new properties if required. There is also an option to look for agents in a particular location, to show users the required properties. This application is meant only for properties on rent; but can easily be extended to include properties on sale or purchase.

Roots4All Genealogical Repository

Amanda Jensen, Kyle Roberts, Nick Hayward

Website and companion app built on Cordova framework where genealogists and historians will be able to find genealogical repositories quickly in a federated search using multi-taxonomic search strings. Current semester's work for presentation is the app creation (proof of concept) including building a form for adding or editing repositories, and building a map linked to entered repositories. This is part one of a two semester thesis which will include building a companion mirror website and further refining the app as part of a Digital Humanities Masters thesis.

Loyola Map

Alessandra Velozo, Raphael Dynk, Igor Schneider, Tiago Almeida

Lakeshore campus has more than 50 buildings. How many of them do you know?
Loyola map is a mobile application that allows you to see the Loyola campus map, select the buildings, get more information about each one, identify which buildings provide accessibility and find your location.
The app was developed using Cordova, so the app can be used in different platforms like Android, IOS and Windows phone.

Real Estate Searcher

Nitin Baluvuri, Siddhartha Reddy Devidi

Real estate searcher application was developed to meet the initial rental requirements of the users , where a user can surf through his requirements and get the list of houses as per the user credentials entered like number of bedrooms , location . It contains the detailed information about the house along with some pictures of that place . The user can view his desired data on just one click about the rental homes .