



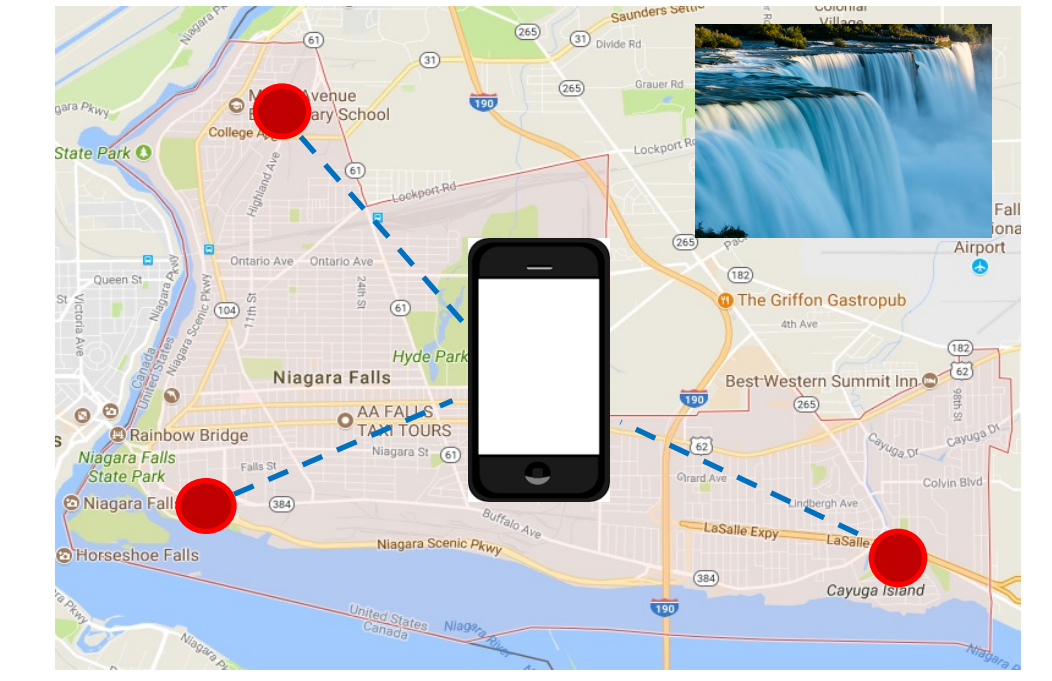
- ✓ Mobile application development
- ✓ Web application development
- ✓ Database design
- ✓ Management of Computer Information Systems

## CONNECT AND PROTECT NIAGARA APP

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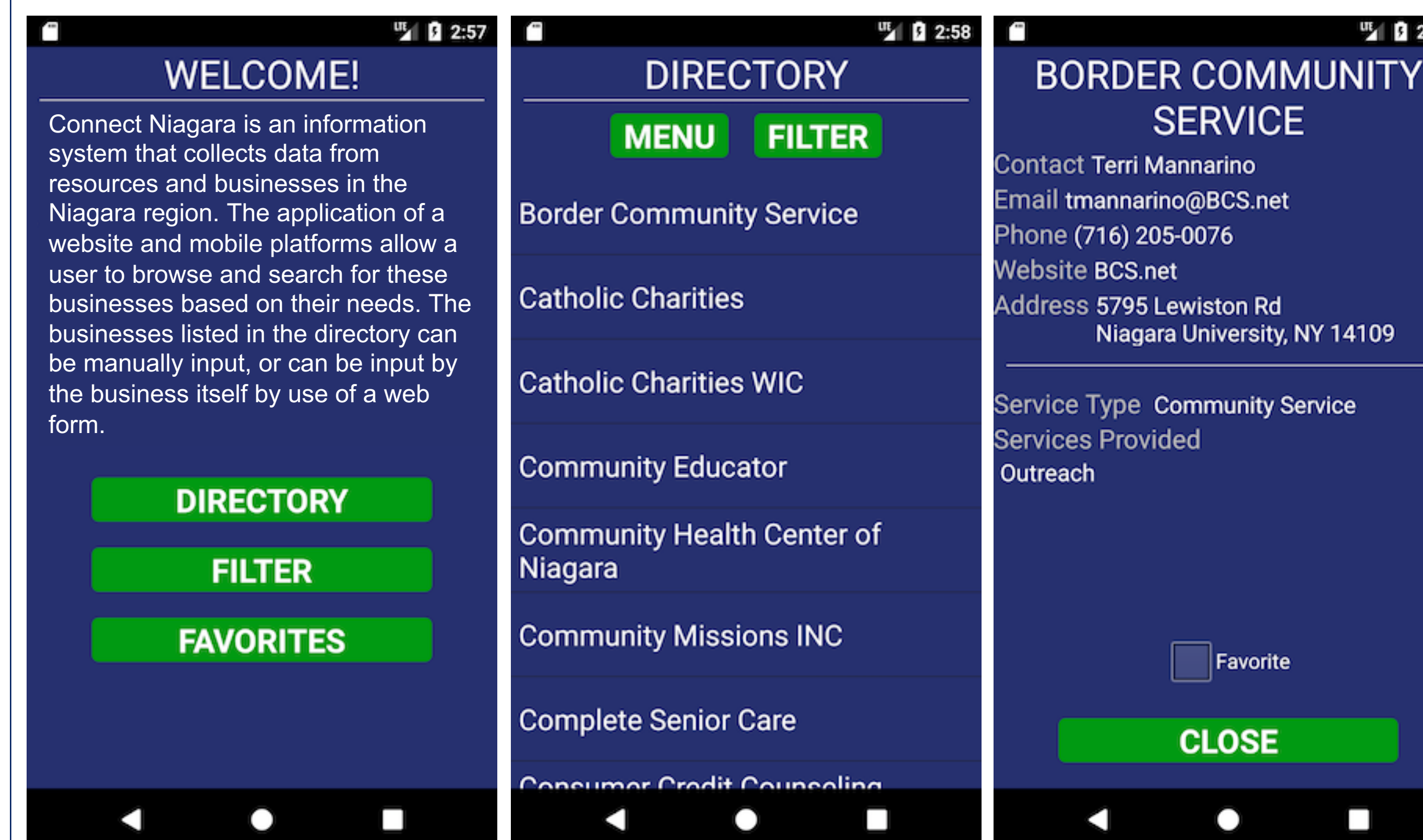
- This project has been supported by:
- ✓ City of Niagara Falls
  - ✓ Computer & Information Sciences Department



### Introduction

There are many residents and local agencies that share the desire to advance Niagara Falls, but often there is a breakdown in effective publishing of service information. Guidance to local services, volunteer opportunities, and training programs are just a few examples of why we need to begin developing a unified platform of information. “Roughly three-quarters of Americans (77%) now own a Smartphone, including lower-income Americans and those ages 50 and older are exhibiting a sharp uptick in ownership over the past year”, according a Pew Research Center survey conducted in November 2016. Using technology to our advantage we are partnering with local agencies to create an alpha-directory of local services. This directory has the potential to be at the thumb of each city resident.

Connect Niagara is an information system that collects data from resources and businesses in the Niagara region. The application of a website and mobile platforms allow a user to browse and search for these businesses based on their needs. The businesses listed in the directory can be manually input, or can be input by the business itself by use of a web form.

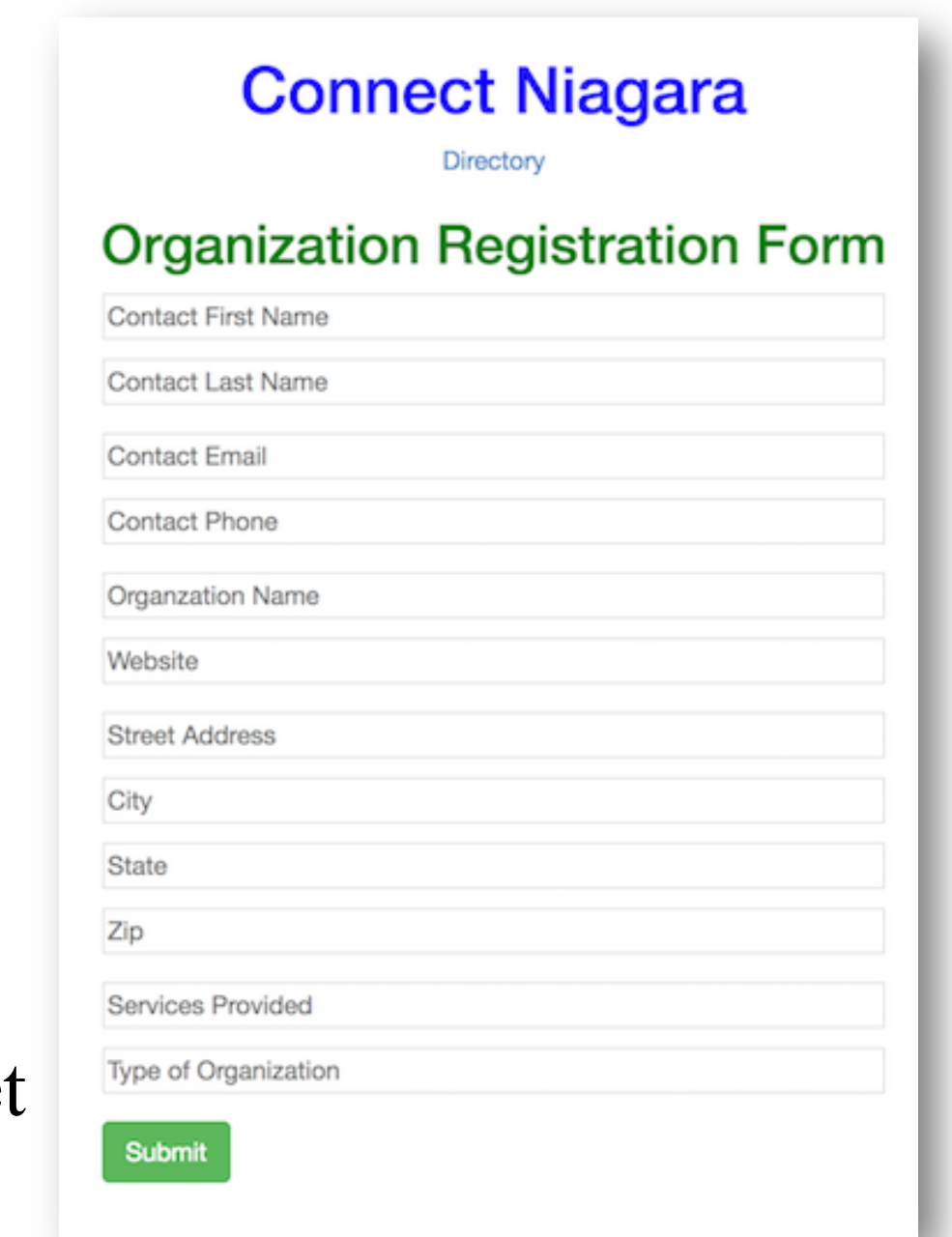


### Design and Development

In Fall 2017 the mobile app was developed, In Spring 2018, a student team is creating the web interface for the Connect Niagara project, as well as redesigning the already existing mobile app and the database interaction. There will also be a need to prepare official documentation for presentation of the project, and the possibility of data entry into the database. Completion of the project will include a fully functional web form, aesthetic upgrades to the mobile application, and literature to explain the use and functionality of the entire Connect Niagara project.

#### Main Functionalities

- ❖ Search a service
- ❖ Keyword / Filter
- ❖ Display information for a service
- ❖ Make a phone call / send an Email
- ❖ Show the service’s location on a map
- ❖ Show user’s location on a map
- ❖ Set favorite services
- ❖ Automatic information update
- ❖ Service provider can register a service via Internet



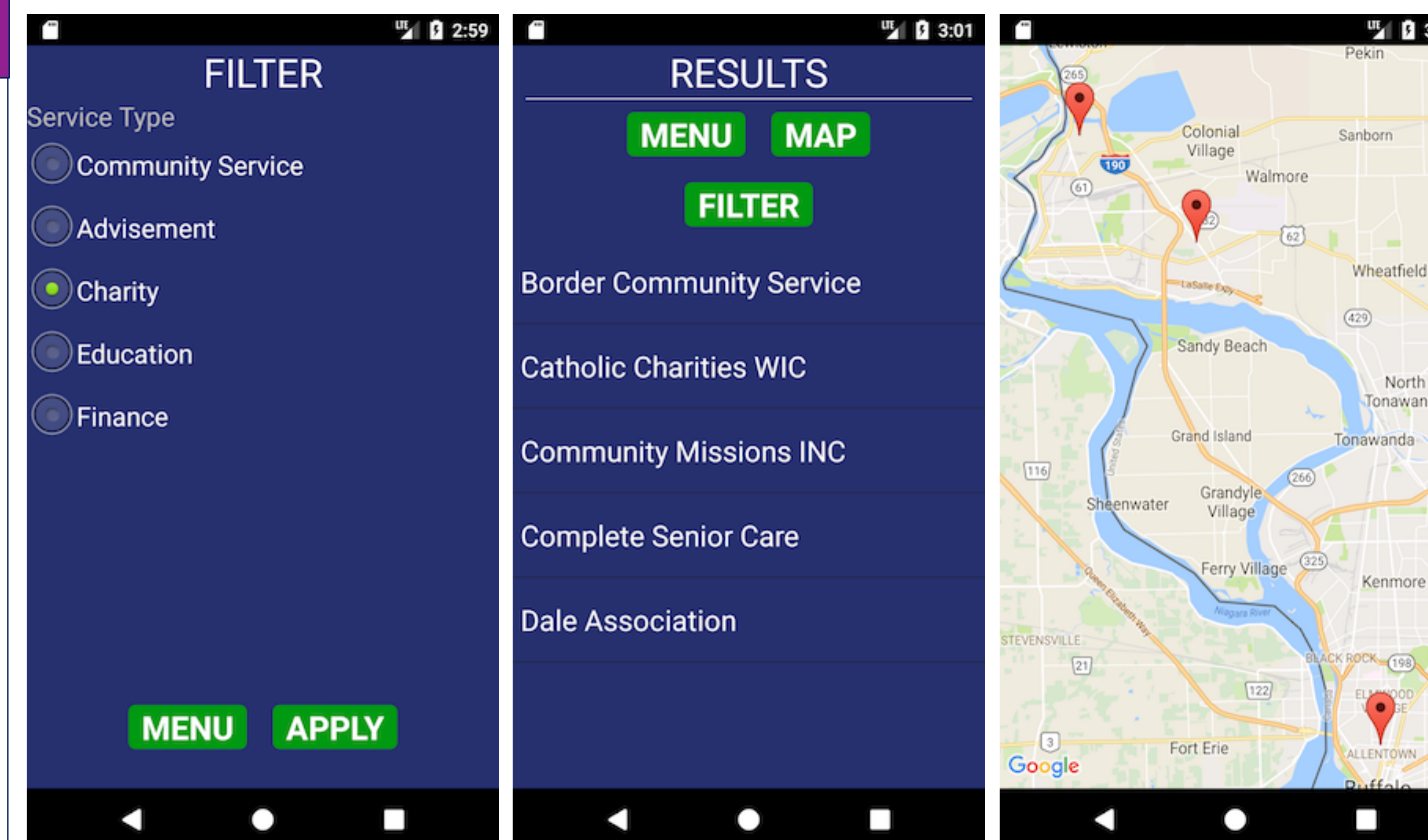
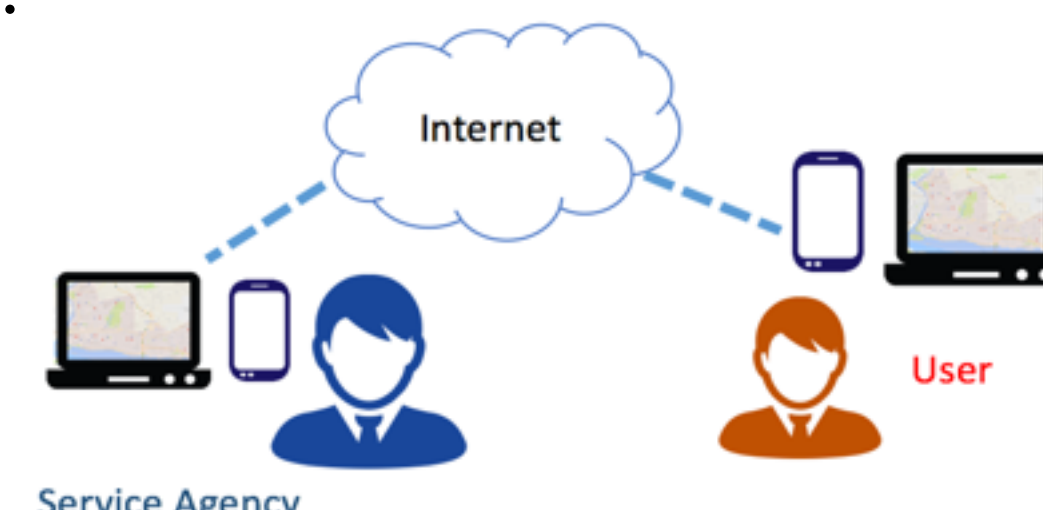
### Goals

#### Goals:

The Connect and Protect Niagara mobile app solves the concerns of resident’s lack of awareness of local agencies, services and programs that are available to improve each resident’s quality of life. This also reduces the duplication of many services and creates a unified platform of services. This creates an efficient form of communication for agencies and residents. By partnering with agencies and residents within Niagara Falls, we can increase awareness while also establishing trust and equality.

#### Benefits/Impacts:

- ❖ Expand your reach.
- ❖ Complementarity of services.
- ❖ Strengthen /support the existing coalition of human services providers
- ❖ Transform public perception and maximize awareness of agency(s).
- ❖ Drive citizen engagement with limited resources and budget.
- ❖ Improve your services and customer experience.
- ❖ Become more authentic and transparent.



Edit	ID	Org Name	Contact First Name	Contact Last Name	Contact Email	Contact Phone	Website	Type	Services	Street Address	City	State/Zip	Latitude	Longitude	Created	Updated
1	Mad Bomber Labs	Jeff	Weber	jeff.weber.mail@gmail.com	7168071582	madbomberlabs.com	technology	application development	4080 Ridge Rd	Lockport	NY 14094	43.2022	-78.825	2018-02-17	23:26:22	null
2	MBLC	Greg	Smith	greg@mbic.com	7168702923	mbic.com	construction	framing, electrical, plumbing	4080 Ridge Rd	Lockport	NY 14094	43.2022	-78.825	2018-02-18	01:00:07	null
3	NU Smart Solutions	Dr	Tong	ytong@niagara.edu	7162868450	http://www.niagara.edu	others	offer services about smart home solution design	Lewiston Rd	Niagara University	NY 14109	43.1365	-79.0353	2018-03-12	23:01:22	null

### Future Work

We believe the product of this project have dual contribution onto the resident’s life and the economy of the Niagara Falls region. We also hope this project will be a great contribution from Niagara University to the city of Niagara Falls and Western New York in general, by helping Niagara Falls to make a solid first step to a “smart city” in near future. This innovative approach will enhance the effectiveness and efficiency of utilizing the emerging technologies in community. This study will also provide meaningful implications and encouragement to the interested scholars.

#### Future Functionalities in Smart City Model:

- ❖ Usage statistics and visualization – (for officials and data analyst)
- ❖ Report/write comments to service providers
- ❖ Citizen report issues
- ❖ Multiple sensor data will be collected
- ❖ More information will be applied
- ❖ Government send live information to citizens
- ❖ Visualization Center
- ❖ Citizen evolve in more events
- ❖ And more...

