**1.7 Review of Related Literatures and Studies**

**Technical Background**

The following were the terminologies and the tools used all throughout this study.

**Bulma**

Bulma is an open source Flexbox based CSS framework. It is a simple, elegant, and modern CSS framework that a lot of developers prefer over Bootstrap (Borgen, 2018). This is used as designing tool for the entire user interface of the website and it is linked in an HTML document file.

**Flask**

Flask is a small and powerful web framework for Python. Easy to learn and simple to use, enabling you to build your web app in a short amount of time according to [Polepeddi](https://tutsplus.com/authors/lalith-polepeddi) (2013). Flask allows you to build web application by providing tools, libraries and technologies (“Introduction to Flask,” n.d.).

**Jinja 2**

Jinja2 is a modern-day templating language for Python developers. Used to create an HTML, XML or other markup format and return to the user via an HTPP request (“Jinja2 Explained in 5 Minutes! – codeburst,” 2018). Jinja templates are files with .html which is placed in the /templates directory in flask. This was used by the team in frontend which embedded in a HTML file to call a python function.

**Python**

According to Python.org (n.d), python is an object-oriented and high-level programming language that is easy to learn syntax and reduces the cost of program maintenance. It supports modules and packages which encourages program modularity and code reuse. The team used this as their programming language for their web based and mobile responsive application.

**SQLAlchemy**

As stated by Krebs (2017), SQLAlchemy is a library that facilitates the communication between Python programs and databases. He says that it translates Python classes to tables on relational databases and automatically converts function calls to SQL statements by using an [Object Relational Mapper (ORM)](https://en.wikipedia.org/wiki/Object-relational_mapping) tool.

**Review of Related Studies**

***Foreign***

Outreach Systems - Neoserra CRM Software for SBDCs, PTACs, WBCs, and other economic development organizations

Based on the website of Outreach Systems - Neoserra CRM Software (2014), Neoserra is the latest customer relationship management (CRM) system offered by OutreachSystems. This is designed specifically for non-profit economic development programs. It also stated under the data access that it includes comprehensive data entry modules which each specific aspect of program’s activities like counseling sessions, training events, capital infusion, etc.

According to ProcessDonation (2018) website, it was originally started of payments technology devoted to helping non-profits and charitable organizations in their communities and develop a solution to help fundraisers beyond their cities. This website has features such as branding, member and donor management, peer to peer fundraising, events and registration and mobile fundraising. Branding of non-profit fundraising helps public gain awareness of non-profit’s mission and confidence in organization. This also explain about the “Donate” button when clicked, it leads directly to fundraising page and a confirmation sent when donation has successfully received by the donor. It may send automated confirmation emails with ticket, event and transaction details. In terms of multi-device support, it provides intuitive experience for users on mobiles, tablets, laptops and desktops.

This research study investigated the community impacts of Partnering Landscape and Community Enhancement (PLaCE) program of Iowa State University’s College of Design (Erickson, 2010). It involves interviews and includes physical improvements to the community, increased project legitimacy, expanded community capacity and stimulation of local dialogue. The focus of the program through student academic projects is to address community development needs and to investigate community impacts of the university involving communities through PLaCE program. This research study had concluded that by talking and listening to the voices of community partners that would encourage them to focused on positive changes between the residents in the community and less focused on the physical improvements.

***Local***

According to Rubio et al., (2016), community extension program is an activity where an individual can experience a different way of learning and may cultivate personality of an individual such as leadership skills, public speaking, self-confidence, etc. This study focused on the assessment of the community extension program of the College of Business Administration (CBA). Specifically, determined the benefits of participating community extensions of the programs of the department, identified problems encountered by the students, benefits and problems encountered by the department grouped according to profile variable. The Community Extension Program of the Lyceum of the Philippines University-Batangas still continues to its mission to help the needy and being part of the mission to make a change in their lives as a volunteer. They added that the CBA through Community Extension Office and with the efforts of the students, administration and students, conducts different kinds of activities such as community-based bookkeeping tutorial, coastal and environmental clean-up and pamumuhunang pangkabuhayang / micro financing to elevate the economic status of the beneficiaries. The results of their study identified that the main problem encountered by students of joining community extension program were funds. Spirit of volunteerism as the personality of the CBA students where enhanced during the participation.

The Center for Social Concern and Action (COSCA) is the social development arm of De La Salle University (De La Salle University, 2012). COSCA’s work are all essentially revolves around formation, instruction and social engagement. Formation means of ensuring all the processes, programs and activities of the Lasallian Guiding Principles-Lasallian Social Development. Instruction means sharing knowledge about Social Teachings of the Church. Center creates and develops opportunities and partnerships where the community can be part of work for social change. COSCA has four components of implementing community engage projects. The Lasallian Accessible, Relevant and Alternative Learning (L-ARAL), Lasallian Health Education, Accessible Resources and Training Services (L-HEARTS), Lasallian Social Enterprise and Economic Development (LSEED) and Lasallian Environmental Sustainability and Governance (L-EnviSage).

Lyceum of the Philippines University (LPU) Cavite office of the Community Outreach and Service Learning (COSeL) sustains responsibility, social consciousness and promotes collaborative efforts of LPU community (LPU Cavite Campus, 2014). Through community-based activities, it brings out core values such as Love of God, Professional Integrity, Unity, Nationalism, Justice, Perseverance and Leadership). COSeL also conduct programs such as livelihood seminars, nutrition programs, computer/technology trainings, blood-letting activities, Alternative Learning System (ALS), Christmas outreach, donation drive and tree-growing activities.