

**SCHOOL OF ENGINEERING & TECHNOLOGY**

**DEPARTMENT OF COMPUTER SCIENCE & INFORMATION**

**DESIGN AND IMPLEMENTATION OF A COMMUNITY-BASED LOCAL SERVICES AND AMENITIES LOCATOR APP**

**A PROJECT SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE DEGREE OF BACHELOR OF SCIENCE (BSC.) IN COMPUTER SCIENCE**

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**DECLARATION**

**Student’s Declaration**

We hereby declare that this project work is the result of our own original research and that none of it has been presented for another degree in this University or elsewhere. We are responsible for any errors and omissions detected.

**Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Supervisor’s Declaration**

I hereby declare that the preparation of the project work was supervised in accordance to the guidelines of supervision of project work laid by Central University.

**Supervisor’s Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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# ABSTRACT

In current times, accessing local services and social amenities in the community has become very important for residents, visitors, and business owners. Our project presents the design and implementation of a community-based local services and amenities locator app. The application helps users to find and communicate with businesses, service providers, and social amenities such as restaurants, hotels, hospitals, schools, and more within their community. There are two main types of users. Regular users can search, save, and share places they find helpful. If someone owns a business, they can switch their account to manage their business profile. There's also a super admin who takes care of everything at the back-end, which includes checking user activities and adding new communities. Our application uses Google Firebase to store and manage data safely and quickly. The mobile version is built with Flutter, and the admin dashboard with React JS. The whole application is designed to be simple and easy to use, so people can quickly find what they need in their area. In the end, our project shows how we can use technology to help people stay connected to services in their communities, whether they’re living in big cities or in small towns.

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**CHAPTER 1**

**Introduction**

**1.1 BACKGROUND OF STUDY**

Living in a town or moving to a new place can sometimes feel confusing — especially when you don’t know where and how to find stuffs. Let’s say someone visits a new community. They may not know where the nearest hospital is, or which restaurant has good food. Sometimes they have to stop and ask random people on the street for directions, and even then, they might still get lost or waste a lot of time.

Even people who live in the community don’t always know what’s around them. For example, there might be a good tailor or hairdresser just a few streets away, but no one knows because they’re not familiar with the person or the business isn’t online. Business owners also struggle because if they’re not on the internet, it’s hard for them to get new customers.

Most apps today focus on big cities or big businesses, and not really on small communities or the local shops. That’s why this app is being made — to help people easily find all the important places and services in their area, like schools, hotels, clinics, electricians, food spots, and more.

This app will be like a local guide in your pocket. It makes life easier for visitors, new residents, and even people who’ve lived in the area for years. And for business owners, it gives them a place to show off what they do and attract new customers.

**1.2 PROBLEM STATEMENT**

Many people don’t know where to find services or places in their own community. Some don’t even know that certain businesses exist nearby. On the other hand, small business owners also struggle to be seen or discovered by locals.

There’s no simple, community-based app that helps with both — letting users explore and letting business owners manage their own info. This project wants to fix that.

**1.3 AIMS**

The goal of this project is to build a simple and easy-to-use app that helps users discover local businesses and community places like schools, hospitals, and hotels. It also allows business owners to create and manage their business profiles so people can find them easily.

**1.4 OBECTIVES**

The key objectives of this system are

* Let users see businesses and community places based on their location
* Allow users to save and share the places they like
* Let users switch to a business account if they own a business
* Give business owners the tools to update their business info
* Let the super admin manage everything behind the scenes

**1.5 THE PROJECT SCOPE OF WORKS**

This app is focused on helping people find things in their own community. It will include:

* Restaurants, hotels, schools, hospitals, and other important places
* Service professionals like electricians, plumbers, and tailors
* A mobile app for users and business owners
* An admin panel where the super admin manages everything

It won’t cover things outside the user’s local area unless they change their location in the app.

**1.6 LIMITATIONS**

The app depends on internet access — no connection means no data

**CHAPTER 2**

**LITERATURE REVIEW**

**2.1 INTRODUCTION**

In this chapter, we’ll look at some ideas, past projects, and apps that are similar to what we want to build. This helps us understand what has already been done and what we can do better.

**2.2** **GAS EXPLOSIONS AND FIRES IN ACCRA AND KUMASI**

* 1. **THE RESEARCH**

**CHAPTER THREE**

**DESCRIPTION, CHALLENGES AND SYSTEMS REVIEW**

# DESCRIPTION OF EXISTING SYSTEMS

**3.2 CHALLENGES OF THE EXISTING SYSTEMS**

* 1. **REVIEW OF THE EXISTING SYSTEMS**
  2. **ADVANTAGES OF THE PROPOSED SYSTEM**

**CHAPTER FOUR**

**METHODOLOGY**

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**4.4 ALGORITHM**

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**CHAPTER FIVE**

**SUMMARY, CONCLUSION AND RECOMMENDATION**

**5.1 SUMMARY**

**5.2 CONCLUSION**

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