# Introduction

Does the fast-paced lifestyle bother you for a long time? Have you ever been frustrated to have no time to go shopping after exhausting work? You may want to try the mobile application that we designed to provide comfort and convenience for situations like this, allowing you to wind down without having to go out shopping after a long day of work.

## 1.1 Overview

The Web has become an essential tool for people in their daily lives. In addition, the mobile phone is quite portable means to reach the Internet, thus increasing the number of mobile phone users. Therefore, the mobile application has become the mainstream of Web App development. Due to the fast-paced lifestyle, many nearly have insufficient time to go shopping after tired work, so brick-and-mortar stores have fewer customers. In order to solve this type of problem, a variety of shopping mobile applications like Amazon [1] and Taobao [2] appear. With the App, customers can shop during their leisure time without visiting a brick-and-mortar store. Vendors could add their inventory and present the details of products directly by posting images or textual descriptions online, which means they could reduce money for rent.

This project, "Niubility" aims to establish a mobile platform for customers to buy mobile phones from various brands. Vendors showcase their merchandise in a user-friendly manner and facilitate purchases by potential customers. Furthermore, this application provides brilliant services which could show details of every purchase order.

## 1.2. Objectives

The main objective of this project is to create an intuitive mobile App for online shopping that allows vendors to sell their products to customers. Similarly, customers can also make purchases more conveniently. For those logged in as a vendor, this App allows them to maintain product catalogues. For example, they can browse the product catalogue, edit some product attributes, and add new products. They can also list purchase orders by different status and ship, hold or cancel them on the purchase order processing page.

For the customer side, customers can conveniently browse and filter the products and add them to their shopping cart. They can also click on a specific product and view detailed information. After placing an order, the customer can check the order processing status on the order page. Moreover, this App allows customers and vendors to manage their accounts securely, such as registering, logging in, and logging out.

So far, the mobile shopping App has been briefly introduced. The structure of this report is as follows: Chapter 2 introduces the background and related work of our work. Chapter 3 presents the system design of our design approach. Chapter 4 shows the implementation of our system architecture and module design. Chapter 5 displays the result of our project outcome and discussion. Chapter 6 summarizes our entire project and future work.