# Conclusion and Further Work

In conclusion, we have developed a user-friendly mobile online shopping mall application based on Java (Spring Boot as back-end) and JavaScript (Vue.js as front-end).

We have developed a mobile-specific graphical user interface by exploiting UI component libraries for the mobile web App so that customers can browse the products and make purchases in this App easily through their mobile phones. We have implemented the vendors' mode for the same App, which is a different view. Thus, the vendors can also post and edit products on stock. Purchase orders are maintained in the MySQL database. Customers and vendors can view and manipulate purchase orders conveniently. In addition, authentication modules are added for more secure account management.

Based on the above design and implementation, our mobile application offers a convenient, efficient, and user-friendly solution for recreational and practical consumption.

Traditional Web Apps and Native Apps can be merged to some extent. They are called Progressive Web Apps (PWAs). Since our project uses Android Web View, most functionalities are based on the Web. It is not available offline, and it requires users' installation in order to be used. However, we can extend our App to a PWA: make it an installable Web App so that the users can use our Web App usually without a network connection [3]. Moreover, the user can access our App with installation from the App Store or a downloaded browser [4]. Thus, the performance and functionality will increase while keeping the accessibility and reliability unaffected.