

UNIVERSITI TEKNOLOGI MARA

**Lelong2U – ANDROID BASED
MOBILE APPLICATION FOR
ONLINE AUCTION**

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ABSTRACT

Auction is the act of buying and selling goods or services by offering them up for bid and then selling the item to the highest bidder. This project is about the development of Android based mobile application for online auction and the reason of developing this project is to help the people to auction and bid the items through online platform. A mobile application for online auction can solve several problems such as traditional auction limits the bidder and sellers to a single location. People who live far from the auction location need to travel to attend the auction. Some auction event takes place at an inappropriate time where some bidders cannot join the auction. The objectives of this project are to identify the requirement, to design and to develop the mobile application for online auction. This project used the Android operating system as a platform to develop an Android based mobile native application. The scope of this project is focusing on public user who live in Malaysia that used mobile application for buying and selling goods or services. The users will be able to view the items from catalog and select the item to view the detail of the items then bid the items. The users also can auction their own items. Methodology that had been used for this project is Mobile Application Development Life Cycle (MADLC) model. However, this project covered from identification stage until testing stage only. This project utilized the Android Studio and Java programming language as a tool to develop the mobile application. Firebase services was used to store the data in the database. For future recommendation of Lelong2U mobile application, this project is recommended to include the payment gateway so that the transaction will become more hassle-free. In a nutshell, Lelong2U mobile application able to ease the users to auction the items and make a bid on items through online platform.

Keywords: Online Auction, English Method, Mobile Application, Android Studio, Mobile Application Development Life Cycle (MADLC), Firebase, Push Notification

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CHAPTER ONE

INTRODUCTION

An outline of the Lelong2U project is provided in this chapter. This chapter contains project background, problem statement, project aim, objective, scope, and project significance.

1.1 Project Background

In recent years, auctions have been founded as an important instrument for the mass sale of government public resources (Betz et al., 2017). Auctions play an important part in contemporary society such as governments sell property and many other assets, companies buy basic materials and services, people also join the auctions to get a variety of products such as cars and rare items (Hortaçsu, 2011). With the rapid growth in information technologies, the online auction has become more popular in the marketplace (Shu, 2018). The advent of internet connection has enabled the auction process to take place online. Now people can bid items using an online auction platform through their laptop or mobile devices from anywhere at any time.

The purpose of traditional auction and the online auction is the same whereby the bidder can bid the items but the concept of how the auction process work is different. In a traditional auction, the auction takes place in a physical location at a specific time determined by the auctioneer. To participate in the auction, the bidders must attend at the location in person and register before they can enter the auction hall. The auctioneer, as the seller's agent will start auction the item with an initial price. At the end of the auction process, the bidder with the highest bid wins the item and pays for the price. With the ubiquitous Internet connection, online auction platforms remodeling the marketplace by providing various services. The main aspect of this move is the provision of various services, especially services that are no longer limited to