

**BUSITEMA UNIVERSITY  
FACULTY OF ENGINEERING  
DEPARTMENT OF COMPUTER ENGINEERING**

**A MOBILE APPLICATION FOR TAXI DRIVER'S VERIFICATION BY PASSENGERS  
FINAL YEAR PROJECT REPORT**

**BY**

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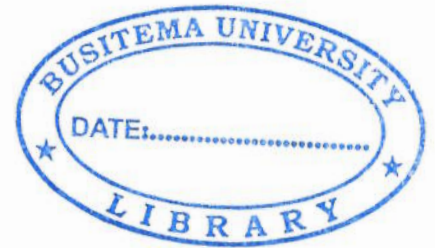
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**DECLARATION**

DRAGULU VINCENT BU/UP/2016/739 AND SISYE EMMANUEL WAJJIRE BU/UP/2016/1599 declare that the work presented herein is our original work and has not been submitted to any other university or institution for any award whatsoever.

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## APPROVAL

This is to certify that the project report under title "A MOBILE APPLICATION FOR TAXI DRIVER'S VERIFICATION BY PASSENGERS" has been done under our supervision and is now ready for examination.

Signature ..... 

Date: ..... 

MR. PINYI OTHIENO ERIA

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## LIST OF ACRONYMS

- APP - Application (also mobile application)
- SDK - Software Development Kit
- SQL - Structured Query Language
- API - Application Program Interface

## ABSTRACT

The project titled A MOBILE APPLICATION FOR TAXI DRIVER'S VERIFICATION BY PASSENGERS is divided into two parts, one part is for availing passengers with the detailed information about drivers and the taxis they drive, the second part is for drivers to update the number plate of the taxis they drive for the passengers to view the correct details since they can choose to drive different taxis, this project is designed for android mobile phone users, the operation of the project is that when the users are connected to internet they can enter the number plate of the taxi and the corresponding details of the entered taxi number plate will be displayed for the user to view.

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## CHAPTER ONE: INTRODUCTION

### 1.1 Background of the study

Passengers desire safety and security for each and every stage of the door-to-door journey. They also depend on a public transport system that is well-maintained so that it gives them confidence that they can travel without fear of injury from crime, sabotage, negligence, equipment failure or terrorist attack[1]. It is also important to ensure health and safety risks to passengers and staff are kept as low as reasonably practicable[2].

Rapid advances in computing, telecommunications technologies and internet-based products have transformed the way in which our society undertakes commercial, recreational and educational pursuits[3]. However, not much has been done with regard to passenger safety using technology. Evidence from annual crime reports shows that road safety in Uganda is poor and has deteriorated over the last 20 years. More than 70% of Ugandans use public transport as their main means, according to Uganda Bureau of Statistics[4]. The increase in these crimes is mainly to the growing number of unlicensed drivers and unlicensed taxis that are still operating on the very busy roads of Uganda. The number of taxi driver operators has increased in the country Uganda especially in the capital city Kampala[5]. Passengers feel comfortable boarding taxis that are almost filled, thinking criminals cannot have the guts to attack them in the presence of other travelers. The robbers who steal in taxis are also aware of the passengers' fears. They crack their nuts to find ways of giving their victims confidence that the taxi they are boarding is secure. The taxi thugs started the new trick of hiring people to act as passengers after the public became aware of the faulty-door tricks they were using. The thugs would hire taxis whose front doors they tampered with, in that it would be difficult for the passengers to lock them.

The criminals would then move around the city center and whenever they found a passenger, they would tell him or her to sit in the front seat, a place preferred by many passengers because it is convenient to alight and also has fresh air.

When the victim has just settled in the seat near the door, the taxi would start moving[6]. The conductor would then pretend to show concern for the faulty door, saying it was not locked and The victim would then be sent into panic and would concentrate on ensuring that the door is locked.

“The more they try and fail to lock the door, the more they lose concentration on their property,”

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