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Kampus Sultan Abdul Jalil Shah



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# **MYCHILDCARE: DEVELOPMENT DAILY REPORT OF MOBILE APPLICATION USING ANDROID STUDIO FOR PARENT AND TEACHER**



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**MUHAMMAD FAZAILE BIN MOHD FAISAL**

**FAKULTI KOMPUTERAN DAN META-TEKNOLOGI  
UNIVERSITI PENDIDIKAN SULTAN IDRIS**

**2023**



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MUHAMMAD FAZAILE BIN MOHD FAISAL

LAPORAN PROJEK TAHUN AKHIR DIKEMUKAKAN BAGI MEMENUHI  
SYARAT UNTUK MEMPEROLEH IJAZAH SARJANA MUDA  
KEJURUTERAAN PERISIAN (PERISIAN PENDIDIKAN)

FAKULTI KOMPUTERAN DAN META-TEKNOLOGI UNIVERSITI  
PENDIDIKAN SULTAN IDRIS

2023



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Tajuk Projek: MyChildCare : Development Daily Report of Mobile Application  
Using Android Studio for Parent and Teacher

Saya sahkan bahawa segala bahan yang terkandung dalam laporan projek tahun akhir ini adalah hasil usaha saya sendiri. Sekiranya terdapat hasil kerja orang lain atau pihak lain sama ada diterbitkan atau tidak (seperti buku, artikel, kertas kerja, atau bahan dalam bentuk yang lain seperti rakaman audio dan video, penerbitan elektronik atau Internet) yang telah digunakan, saya telah pun merakamkan pengikhtirafan terhadap sumbangan mereka melalui konvensyen akademik yang bersesuaian. Saya juga mengakui bahawa bahan yang terkandung dalam laporan projek tahun akhir ini belum lagi diterbitkan atau diserahkan untuk program atau diploma/ijazah lain di mana-mana universiti.

20 Feb 2023

Tarikh

*Fazaile*

Tandatangan Pelajar

### Perakuan Penyelia:

Saya akui bahawa saya telah membaca karya ini dan pada pandangan saya karya ini adalah memadai dari segi skop dan kualiti untuk tujuan penganugerahan Ijazah Sarjana Muda Kejuruteraan Perisian (Perisian Pendidikan).

28 Feb 2023

Tarikh

Tandatangan Penyelia  
(Puan Asma Haneec Binti Ariffin)

## APPRECIATION

Alhamdulillah all praise be to Allah the almighty, I want to take this opportunity to thank you for your support and encouragement while I worked diligently to complete my thesis. That is a noteworthy achievement and a reflection of my dedication to academic success.

Many hours of study, analysis, and critical thinking went into my thesis. I'm proud of the advancement it brings to the discipline and the new perspectives it provides on the issue.

I pushed myself throughout the process to study the subject in greater depth and to look beyond the obvious answers. I'm happy to report that I succeeded in achieving this objective and creating a well-rounded, thought-provoking piece of work.

I appreciate the encouragement and advice I got from my supervisor Madam Asma Haneé Binti Ariffin, my friends, and my loved ones, who encouraged me on while I was writing. Their feedback and suggestions have assisted me in developing my concepts and create a final product I am happy of.

Overall, I am appreciative of the chance to have taken on this project and the priceless lessons it has taught me. It has not only enabled me to improve my research and writing abilities, but it has also allowed me to develop a greater understanding of the subject.

In closing, I'd want to congratulate myself for finishing my thesis successfully and wish myself well in all my future undertakings.

## ABSTRAK

Pendidikan Awal kanak-kanak merupakan peringkat yang penting, dimana ibu bapa memegang tanggungjawab yang besar. Ibu bapa perlu memainkan peranan utama untuk pendidikan awal kanak-kanak, ibu bapa perlu mengekalkan komunikasi bersama guru-guru mengajar di tadika. Sementara itu, guru memainkan peranan penting juga dalam kelas untuk menarik minat kanak-kanak. Oleh sebab itu dengan aplikasi ini ibu bapa dan guru lebih memahami aktiviti kanak-kanak dalam kelas dengan menggunakan metodologi *incremental*. Semasa fasa ujian, Skala Kebolehab Sistem (SUS) telah digunakan untuk menilai kebolegunaan, kefungsian dan kebolehterimaan, digunakan untuk mengukur kejayaan produk. Sistem aplikasi mudah alih ini diwujudkan bagi memudahkan ibu bapa dan guru untuk pendidikan awal kanak-kanak. Akhir sekali, diharapkan sistem aplikasi mudah alih ini dapat meningkatkan komunikasi ibu bapa dan guru lebih memahami kanak-kanak.

## ABSTRACT

In the pivotal stage of early childhood education, the weight of parental responsibility cannot be overstated. As the foundation for a child's learning and development is laid, it is crucial that parents actively engage in their child's education and maintain open lines of communication with teachers. Meanwhile, teachers to play a vital role in shaping young minds within the classroom. In recognition of the importance of parent-teacher communication, a revolutionary mobile application has been developed using the incremental methodology. This innovative tool serves as a bridge, connecting parents and teachers, ensuring that no child falls through the cracks as they embark on their educational journey. During the testing phase, the System Usability Scale (SUS), which is used to assess usability, functionality, and acceptability, is used to gauge the product's success. This mobile application system was created to make it easier for parents and teachers to provide early childhood education. Finally, it is hoped that this mobile application system would improve parent and teacher communication.



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## CHAPTER 1

### INTRODUCTION

#### 1.1 Introduction



Resilience research indicates that during the early childhood years, it is important for children to have good quality of care and opportunities for learning, adequate nutrition and community support for families, to facilitate positive development of cognitive, social and self-regulation skills. Young children with healthy attachment relationships and good internal adaptive resources are very likely to get off to a good start in life, well equipped with the human and social capital for success as they enter school and society (Masten, Gewirtz, & Sapienza, 2006).

In modern days parenting is hard for some people if they focus on their career. Parent had to work hard to make money for living, this makes parent spending less time with their children in aspect social and academic. For example, parent work for 6 week and 8 hours per day and only had around 5 until 7 hours after work for their time to





spend with family. So, in this chapter researcher will discuss the project background, problem statement, objectives, scope, and project significance.

## 1.2 Project Background

Malaysia is a developing country the population of Malaysia children increase each year, a statistic by Mohd Uzir Mahidin (2018) showed that the total population children are 32.4 million under 18 years of age while under 5 years in 2018 is 2.5 million. The highest percentage of children under 18 was recorded in W.P. Putrajaya which is 49 per cent from total population. Mohd Uzir Mahidin (2018) stated the enrolment in private kindergarten increased in 2016 to 2017 which recorded 332.6 to 364 thousand. This show that parent attend to send their children to private kindergarten.



education, but the main factor is parent and teacher play a major role in early childhood education. So, parent and teacher need better communication to develop the progress of the children. Effective communication between teachers and families provides the two parties with a deeper understanding of mutual expectations and children's needs. This enables both parties to effectively assist children and to establish a basis of cooperation (Conderman, Johnston-Rodriguez, Hartman, & Kemp, 2010; Epstein & Sanders, 2006).

Therefore, a mobile application had been decided by researcher to develop to keep teacher and parent to see the progress the children growth in education. This project will use android studio to make daily report by teacher to parent can monitor the children. The application that researcher had provided can benefit the teacher and parent communication in early childhood education faster and more efficient.



### 1.3 Problem Statement

The first problem kindergarten still uses traditional report paper or book for communication to parent. A parent–teacher relationship is seen as a one-way process if teachers inform or instruct parents (Tett, 2004), and the parents’ role is that of the passive receptors of expert advice (Cheatham & Ostrosky, 2011; Gwernan-Jones et al., 2015). By using the application is more interactive to see the progress and can make immediately respond to their children.

Second the problem when parent do not had time to see the progress of children growth in education. Problems in learning and self-control often begin in the preschool years and are related to the quality of available parenting (Masten, Gewirtz, & Sapienza, 2006). So, parent need to support their children in every situation.

### 1.4 Research Objectives

The objectives for this research are:

- a) To identify the problem related in early childhood education.
- b) To develop prototype of mobile applications using android studio based on the problem discover early in childhood education.
- c) To test the functionalities of prototype developed in mobile applications using android studio.



## 1.5 Scope

The main function of this mobile application is to monitor the children progress at kindergarten, so teachers and parents had better communication with each other. Furthermore, the contain of this application that teacher can update daily report so that the parent can view it. For the target user we focus on parent and teacher to make better two-way communication. Finally, this application is more suitable in the urban area where had better internet coverage.

## 1.6 Project Significance

The development of this mobile application will focus on parent able to see children activity or progress at kindergarten recently. Parent will get information what are currently children are doing. Also, parent able know the progress of their children.

The mobile application also will help teacher able to the children progress learning. Teacher can plan their classroom learning what they should do to make children enjoy and learning at same time.

## 1.7 Conclusion

Parenting play major role for their children education in early childhood, parent need have good communication between teachers to know the progress of their children. Meanwhile teacher also play crucial role to their children in classroom.

