

The reason behind the numerous trials is because a programmer needs to review the whole program whenever the program fails to run. This would require checking if the codes were typed in correctly, and the whole program needs to be reproduced in order to locate the problem. In the process of reproducing the program, there might be codes that get duplicated. This will still hinder the program from running properly.

In the past, mobile application development was a big challenge because of the lengthy codes that are required to run a program. The coding process for a simple program usually takes days just to finish. For programs that are more complex, it may take months or even longer before it gets finished. This still does not include the numerous trials that would be faced after finishing the program. Unexpected bugs are common obstacles in programming that are unavoidable (Shahzeb, 2017). This is the reason why it would take a long time to finalise a single program.

## INTRODUCTION

English Language

Course Area(s)

Cluster 1, 2, 3A, 3B, 3C, 3D, 3E, 3F, 4A, 4B, 5

Learning Outcome(s)



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## USING APPY PIE PLATFORM IN DEVELOPING MOBILE APPLICATION TO TEACH ENGLISH COURSES FOR UNDERGRADUATE STUDENTS IN MALAYSIA

Chapter 18