

**Universiti Teknologi MARA**

**HAWA DIARIES:  
MOBILE APPLICATION FOR  
MUSLIM WOMEN IN MALAYSIA**

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**Thesis Submitted in Fulfillment of The  
Requirements for Bachelor of Computer Science  
(Hons.) With the Supervision of Madam Lily  
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**SUPERVISOR'S APPROVAL**

**HAWA DIARIES: MOBILE APPLICATION FOR MUSLIM  
WOMEN IN MALAYSIA**

By

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This thesis was prepared under the supervision of thesis supervisor, Madam Lily Marlia Binti Abdul Latif. It was submitted to the Faculty of Computer and Mathematical Sciences and was accepted in partial fulfilment of the requirements for the degree of Bachelor of Computer Science (Hons).

Approved by:

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Madam Lily Marlia Binti Abdul Latif

Thesis Supervisor

JANUARY 8, 2019

## DECLARATION

I certify that this report and the research entitles Hawa Diaries: An Android Mobile Application for Muslim Women in Malaysia to keep track their Menstrual Cycle which it refers are the product of my own research and that any ideas or reference from the work of other researchers, published or otherwise are fully acknowledged in accordance with the standard referring practices of the discipline.

  
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## **ABSTRACT**

Nowadays the development of mobile application has been increased based on its popularity. The mobile application needed to be executed by using a smartphone to perform it. A mobile application was a program that design to run on any mobile device. The mobile application was not complete for people without a mobile device with them. In this era, the mobile device was needed for most people to do their daily routine. This research is focusing on the Hawa Diaries, an android mobile application for Muslim women in Malaysia to monitor their menstrual cycle. By using the information that has been posted in Jabatan Kemajuan Islam Malaysia's (JAKIM) official websites, this application will extract real-time prayer schedule from JAKIM Malaysia through e-solat application program interface (API). Although there is the application that already available on market and used by the users on prayer time and menstrual log, however, they need to install more than one application cater their needs. Furthermore, all these applications are not built specifically for Muslim women and do not have auto push notification for menstrual and prayer time. To solve this problem, by using java programming to write the hard code to link e-solat API with menstrual cycle log to get a functional application on guiding Muslim women in daily life. The working prototype of this project was developed by using Android Studio and SQLite database to store the data that extracted from e-solat API and stored menstrual log details information.