

UNIVERSITI TEKNOLOGI MARA

**HeyBaby: Prenatal Care Record
System with Data Visualization**

SYAFIQAH ADIBAH BINTI ARBAIN

**BACHELOR OF INFORMATION
TECHNOLOGY (Hons)**

JULY 2022

Universiti Teknologi MARA

**HeyBaby: Prenatal Care Record System
with Data Visualization**

Syafiqah Adibah Binti Arbain

**Thesis submitted in fulfilment of the requirements for
Bachelor of Information Technology (Hons)
Faculty of Computer and Mathematical Sciences**

July 2022

SUPERVISOR'S APPROVAL

PROJECT TITLE

By

**SYAFIQAH ADIBAH BINTI ARBAIN
2019208142**

This thesis was prepared under the supervision of the project supervisor, Siti Sarah Binti Md Ilyas. 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 Information Technology (Hons).

STUDENT DECLARATION

I certify that this thesis and the project to which it refers is the product of my own work and that any idea or quotation from the work of other people, published or otherwise are fully acknowledged in accordance with the standard referring practices of the discipline.

.....
SYAFIQAH ADIBAH BINTI ARBAIN
2019208142

JULY 15, 2022

ABSTRACT

Prenatal Record Booklet or mainly known as 'Buku Pink' is the established method to record health information of mother-to-be and baby throughout pregnancy in Malaysia. The Prenatal Care Record System with Data Visualization is developed to provide a computerized variation of 'Buku Pink'. This system intended to provide solution to the concern of misplacing the 'Buku Pink', misreading information written, and most importantly failure to remember the scheduled appointment. The objective of this project is to develop a web application For Prenatal Care Record System embedded with Data Visualization. This system able to assist pregnant ladies and medical staff to keep track of their prenatal care records, such as appointment dates, blood test results, urine test results, blood pressure, and fetus growth. Power BI dashboard is integrated to allow user to view total of birth weight by gender. User also presented with the predictions of total birth growth by state. The second objective of this study is to evaluate the prototype using User Experience Testing (UXT). 30 respondents including women aged from 18 until 36 and above with various background and medical staff. From the UXT, positive insight was attained from the respondents. Thus, it can be concluded that the objective for this study is successfully achieved.