

# Bloom Birth Project Documentation



## Overview

Project Name	BLOOM BIRTH
Project Manager	Earl Gierald B. Verzon ( <i>Full-Stack Developer, Creator of Bloom Birth</i> )
Project Dates	Start Date: May 18, 2025 End Date: Aug 18, 2025
Background	<p>This project was inspired by my mother, a licensed and practicing midwife. Based on her experience, many maternity and birthing clinics still rely on traditional, manual methods of recording patient information—typically through handwritten entries in logbooks. This repetitive process becomes time-consuming and inefficient, especially when handling a large number of patient records. In addition, organizing and retrieving data can be challenging without a systematic approach. To address these issues and reduce the administrative workload of clinic staff, I developed this software to automate key maternal health computations and streamline patient record management in a more organized</p>

	and user-friendly manner.
<b>Objectives</b>	<ul style="list-style-type: none"> <li>• To digitalize maternal healthcare record-keeping -</li> <li>• To automate Prenatal Checkup schedules, Gestational Age, Estimated Due Date (EDD), and Last Menstrual Period (LMP) computations.</li> <li>• To improve data accessibility and organization</li> <li>• To enhance the accuracy and reliability of records</li> <li>• To maintain a log of patient checkups and clinic activities</li> <li>• To provide an accessible and cost-free digital solution for managing maternity clinic records.</li> </ul>
<b>Target Audience</b>	<p>The following are the users who will benefitted from the project:</p> <ul style="list-style-type: none"> <li>• Midwives and Birth Attendants</li> <li>• Clinic Staff and Assistants</li> <li>• Owners of Small to Medium-Sized Maternity Clinics</li> <li>• Local Government Health Units (Barangay Health Workers)</li> <li>• Healthcare Workers in Rural or Underserved Areas</li> <li>• IT Professionals and Developers in Healthcare Solutions</li> </ul>

# Project Specifics

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## **Project Scope**

### **a. Patient Record Management**

- Store personal and medical information of patients (name, age, address, contact, checkup history, LMP, EDD, etc.).
- Organize prenatal checkups (1st to 8th) and automatically calculate Estimated Due Date (EDD).

### **b. Checkup Logging**

- Allow input and tracking of each prenatal checkup date.
- Maintain a clear timeline of prenatal care.

### **c. Automated Computation**

- Auto-calculate EDD from LMP.
- Indicate completion of checkups and delivery dates (development status).

### **d. User-Friendly Interface**

- Provide a simple and accessible UI for midwives and clinic staff with minimal technical skills.

### **e. Data Organization and Search**

- Allow viewing, searching, and sorting of patient records for quick access.

### **f. Offline-First Functionality**

- Fully functional without an internet connection.

### **g. Free to Use**

- The software is freely accessible and distributed without licensing cost to ensure easy adoption, especially by small or resource-limited clinics. While the app is completely

	<p>free to use, <b>voluntary donations are welcome</b> to support ongoing development, feature enhancements, and maintenance. These contributions help sustain the project and introduce new improvements based on user feedback.</p>
<b>Project Constraints</b>	<p><b>a. Platform Limitation</b></p> <ul style="list-style-type: none"><li>• The app is currently designed only for Windows desktop. No mobile, MacOS, or web support at this time.</li></ul> <p><b>b. Single-User Access</b></p> <ul style="list-style-type: none"><li>• The app does not support multiple users or accounts. No login or user role management included.</li></ul> <p><b>c. No Cloud Sync or Backup</b></p> <ul style="list-style-type: none"><li>• Data is stored locally. There's no integration with cloud services for backup, sync, or sharing.</li></ul> <p><b>e. Limited Analytics/Reporting</b></p> <ul style="list-style-type: none"><li>• No built-in data visualization, summary reports, or analytics for clinic performance.</li></ul> <p><b>f. Low Scalability</b></p> <ul style="list-style-type: none"><li>• Not intended for large hospitals or clinics with high-volume, multi-terminal access.</li></ul>