SRI LANKA INSTITUTE OF ADVANCED TECHNOLOGYCAL EDUCATION

Higher National Diploma in Information Technology

HNDIT 4052
Programming Individual Project

Software Requirement Specification
(SRS)

Baby Clinic Management system

Supervisor

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Baby Clinic Management system

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1.Introduction

This system project for the baby clinic management system. The Baby Clinic Management System aims to as a solution to many problems such as all the work done in a clinic in manual, the opportunity to go to collect the notes again, parents going to the clinic to get information.. The project will follow the Agile software development methodology. This is very valuable for many issues like saving time and manual work in this clinic by making this project. The information of several lines goes to the MOH and this goes up to the district levels. Parents can also get many benefits from this website, including the ability to easily access and connect with all the child's information and thereby save time. The primary purpose of the Clinic Management System is to modernize and optimize the clinic's operations by replacing manual processes with automated ones. This shift towards digitalization seeks to eliminate paperwork, reduce human errors, and provide healthcare professionals with timely access to accurate patient information, ultimately enhancing overall clinic performance. improved operational efficiency through automation of administrative tasks, leading to time and cost savings.

2.Objectives

- Streamline administrative tasks for appointment scheduling and patient registration to improve operational efficiency.
- Enhance patient care by providing centralized access to medical records, vaccination schedules, and growth charts.
- Improve communication and collaboration among healthcare providers, parents, and other stakeholders.
- Ensure compliance with regulatory standards and data privacy requirements.
- Facilitate data-driven decision-making through comprehensive reporting and analytics capabilities.

3. Functional and Non-Functional Requirements

3.1. Functional Requirements

User Functionality

1. **Authentication and Account Management:**
   - Login: Admin, Midwife, User can log in using their credentials.
   - Forgot Password: Users can reset their password if forgotten.
2. **Manage profile:**
   - Midwife can manage parent and baby details.
   - Midwife can Register the new parent and baby.
   - Midwife can Remove, Add new user or some details.
3. **Add growth chart:**
   - Midwife can create baby's monthly growth chart for growth weight.
4. **Add growth step:**
   - Parent can add the baby's growth step.
5. **Add vaccination details:**
   - Midwife can add baby's all vaccination details.
6. **Search:**
   - Midwife can search for a baby, date etc details.
7. **Create monthly report:**
   - Create the all clinic have monthly report.
8. **Feedback:**
   - Each parent can make a special note about the child.

Admin Functionality:

1. **User Management:**
   - MOH Admin can view the list of registered users and view the all clinic report.
   - Special notifications will be made to all clinics.

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3.2.Non Functional requirements

Performance:

- The system should have a fast response time, our website works 24 hours.
- Database queries should be optimized for efficient data retrieval.

Security:

- The system well secure user should fill in his/her username and password so as to be authenticated to the system.
- User data should be encrypted and securely stored.
- Should have good data privacy-the web site data should be secured and be encrypted with minimum needs so that it's protected from outside environment also from internal attack

Reliability:

- The system should be reliable 100% no errors are occurred.

Usability

- User can access the website from any device.
- The UI should be intuitive and easy to navigate for users.

4. Feasibility study

Technical Feasibility:

- Users only need to know how to access and view the website, but the technical staff needs to have the understanding to administer work with technology. The system is therefore determined to be operationally feasible. Technology is available and the development has the necessary expertise to implement it. The UI should be intuitive and easy to navigate for users. User can access the website from any device and easy. Given the technology are using to create this web-based system HTML, CSS, Laravel for the front end, XAMMP and PHP for the back end—it is entirely feasible to create the system in this scenario.

Operational Feasibility:

Evaluate how the system will fit into the existing workflow of the baby clinic.

- Assess the impact of the system on staff members and their ability to adapt to new processes and technologies.
- consider any potential resistance to change and develop strategies to address it.
- if the system will be able to meet the operational needs of the clinic and improve overall efficiency and effectiveness.
- Additionally, it's important to consider factors such as security and privacy concerns, and user acceptance during the feasibility study.

Legal and Regulatory Feasibility:

- Adhere to healthcare regulations and data protection laws, ensuring patient confidentiality and data security.

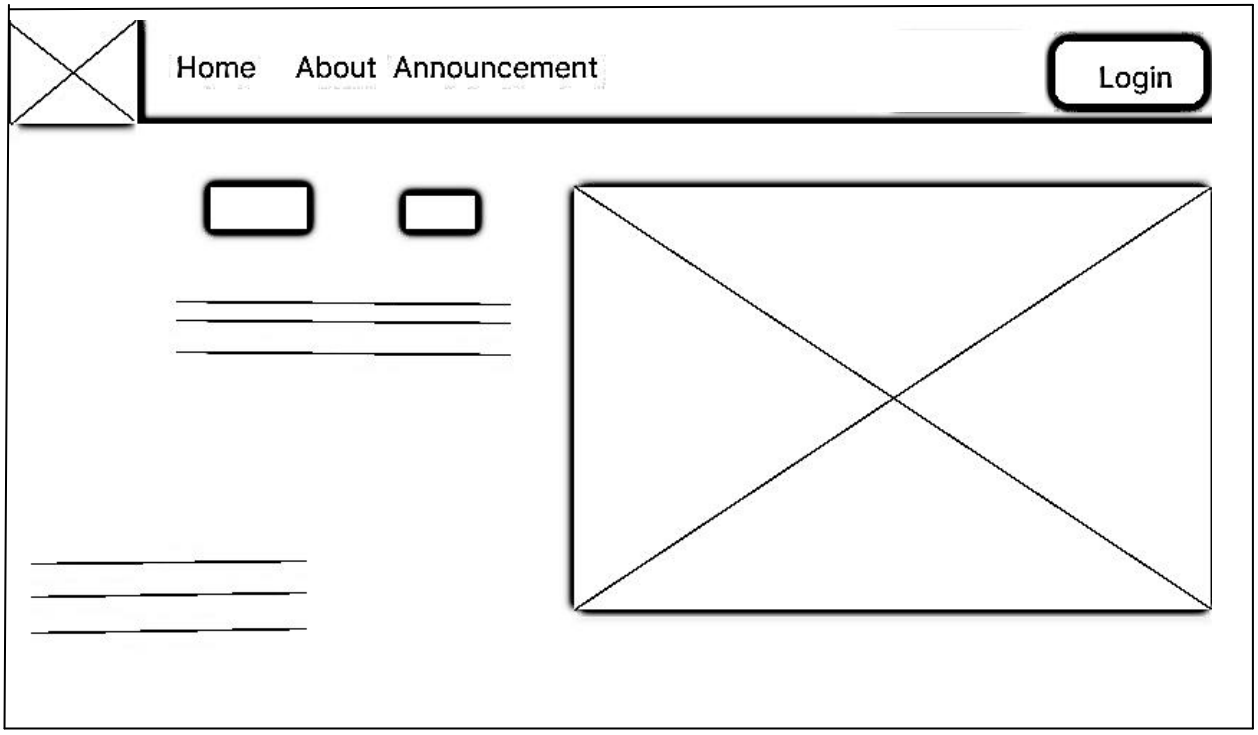
Financial feasibility

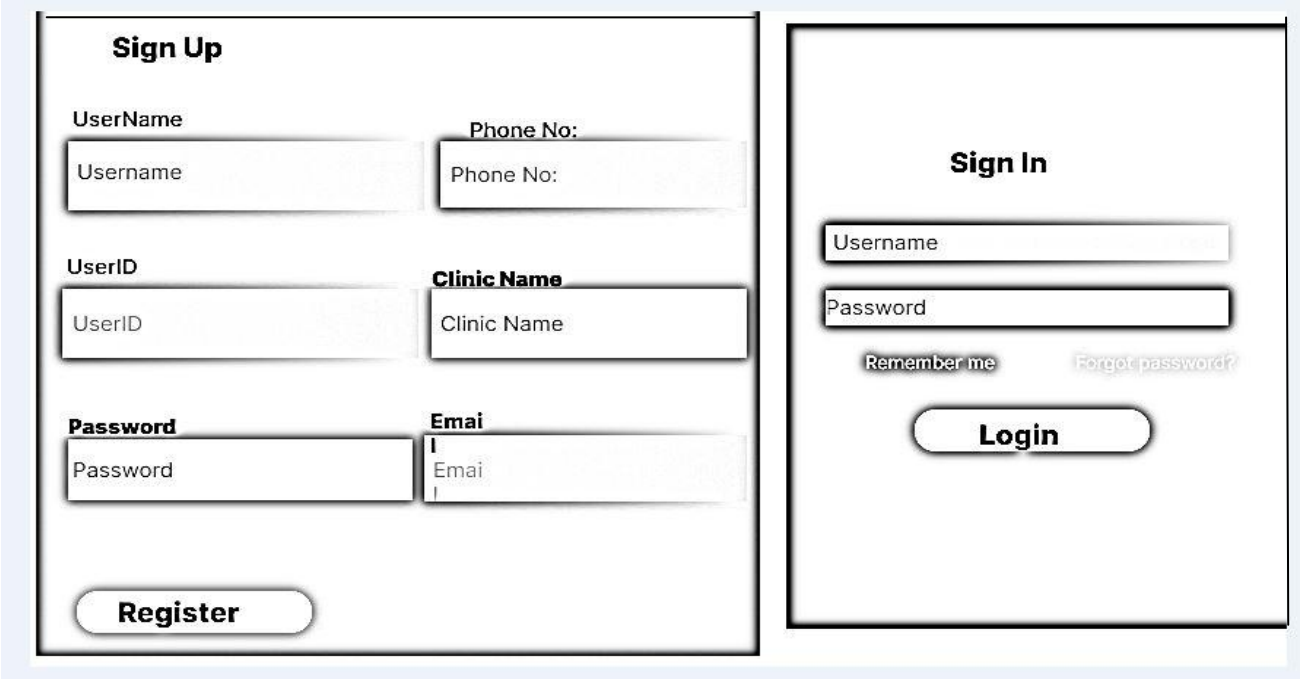
The project's financial viability is justified by taking into account the cost of developing the system to use Laravel, PHP for the back-end, which can lower project costs.

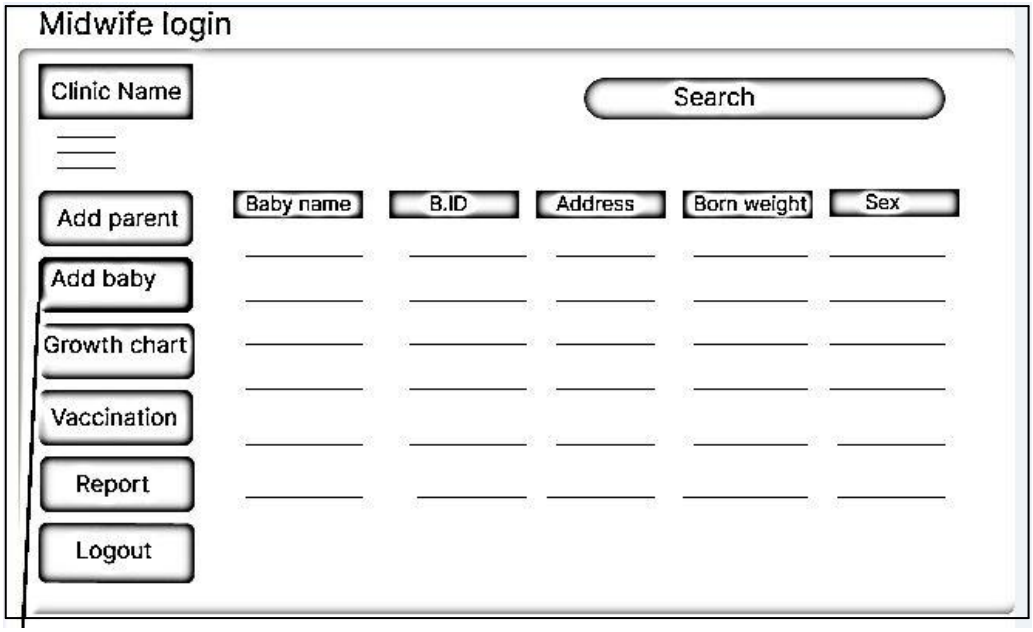
The system did not cost much to create and only the host part cost money.

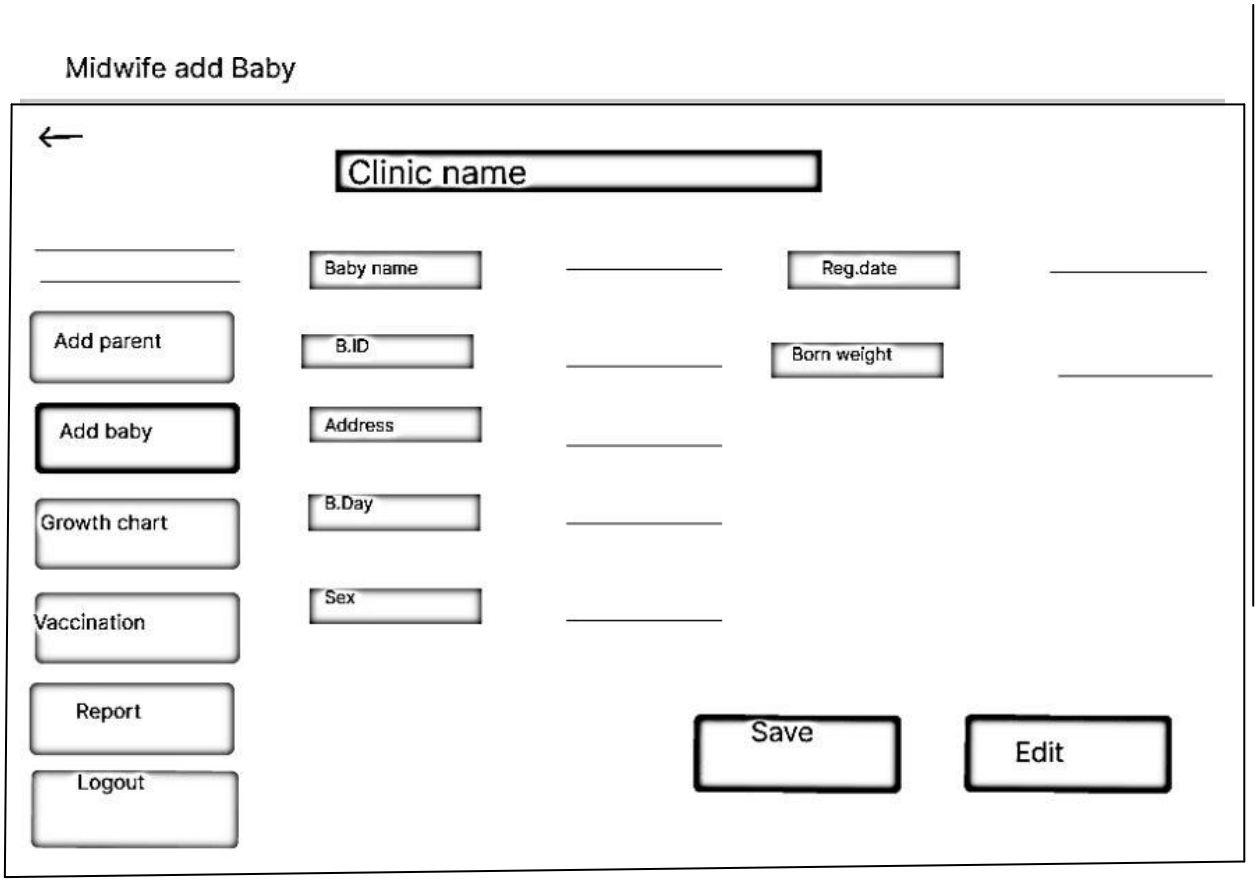
5.Interfaces

5.2.User Interfaces

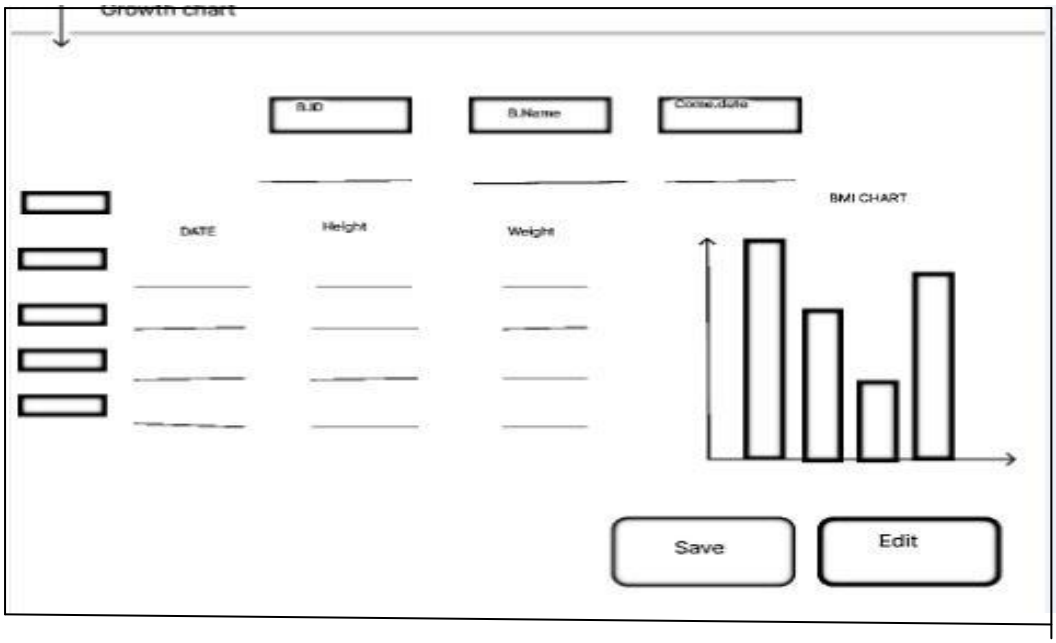


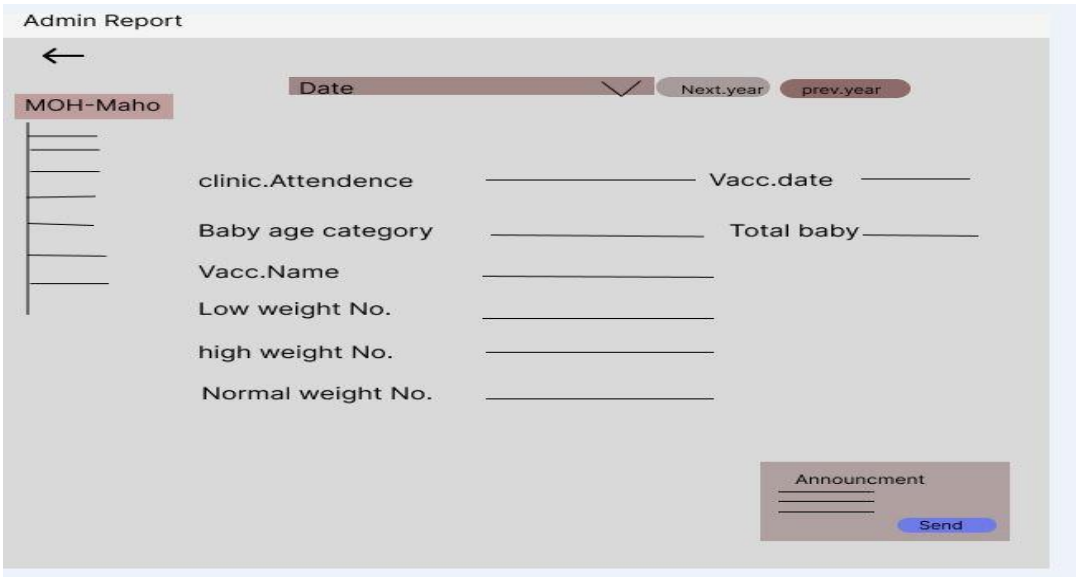



Midwife login
Clinic Name
Search
Add parent
Add baby
Growth chart
Vaccination
Report
Logout
Baby name
B.ID
Address
Born weight
Sex


Midwife add Baby
Clinic name
Add parent
Add baby
Growth chart
Vaccination
Report
Logout
Baby name
B.ID
Address
B.Day
Sex
Reg.date
Born weight
Save
Edit

Growth Chart





5.2.Hardware Interfaces

No specific hardware interfaces required.

6.Assumption and constrains

6.1.Assumption

- The web application be developed using Laravel and PHP programming language.
- Assumes availability of internet connectivity for users to access the web application.

6.2.Constraints

Adhere to healthcare regulations and data protection laws, ensuring patient confidentiality and data security.

7. Appendices

7.1.Glossary of Terms:

Laravel is a free open source PHP web framework used for the development of web application**.**

Hardware

- RAM 4GB
- ABOUT CORE i5 Processor
- Mouse
- Monitor

Software

- Laravel
- XAMMP
- HTML
- CSS
- BOOSTRAP
- Windows 8

7.2. References

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