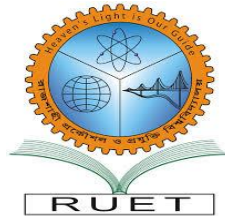


*Heaven's Light is Our Guide*

**Rajshahi University of Engineering and Technology,  
Bangladesh**



**Department of Computer Science and Engineering**

**Course No: CSE 3100**

**Course Title: Web Based Application Lab/Project**

**Project Title: Maternal and Child Health Care**

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## **ABSTRACT**

Taking care of the mother's health throughout the continuum of pregnancy, childbirth and postnatal care is crucial. This **Maternal and Child Health Care** project will help mother to care of her in this period and also her child. The login and registration section will have login and registration facilities for the admin and for the user (mothers) who will operate this system. Mothers can calculate their due date, view due date, set alarm for getting email and SMS reminder, calculate the immunization schedule for her child and read blogs. Mothers can also post queries and they can view and comment only their own queries. After registration, admins need to wait until he/she get approved by other admin. Admins can set block or approve both mothers and admins. They can manually send email and SMS notification to the mothers. They can also view all the queries of mothers and reply. They can also post queries. There is a switching method for the admins. Through this, they can get the facilities of a normal user or mother.

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## **Introduction:**

Maternal health refers to the health of women during pregnancy, childbirth and the postnatal period. Some women experience health problems during pregnancy.

Maternal and Child Health Care can help mother to take precautions about these complications and also get solutions if she gets into these. She can get tips and solutions from the specialists directly through Query section.

Vaccination should be done at the right time to get good immunity. Mother can calculate the immunization schedule for her child from Child Vaccination section.

A pregnant mother needs to get routine visit to a doctor to get the updates of her and her child health. Due Date Calculation section helps to set reminder alarm for these routine visits.

Admins can control the both the user's and admin's activity in this site. They can reply to mother's queries and send reminder mail and SMS manually. And they can also use the site as a mother through the Switching method.

**Motivation behind this project:**

Sometimes, Pregnant women experience complications that can involve their health, their baby's health, or both. Sometimes, diseases or conditions the mother had before she became pregnant can lead to complications during pregnancy. Some complications occur during delivery.

Even with complications, early detection and prenatal care can reduce any further risk to you and your baby.

A high-risk pregnancy may be one that involves chronic health problems, such as diabetes or high blood pressure; infections; complications from a previous pregnancy; or other issues that might arise during pregnancy.

So, a mother needs regular visits to doctor and get health tips at any time. If they get right instructions at the right time, the risk factors may get lower and mothers get a healthy pregnancy.

**Features of the System:**

These are the important features of the project Maternal and Child Health Care:

- ☐ Mother can calculate their Due Date.
- ☐ Mother can set alarm for the routine visit.
- ☐ The website sends automated email and SMS reminder.
- ☐ Mother can calculate the immunization schedule for her child.
- ☐ There are important blogs for mother.
- ☐ They can post any query and reply to the specialist's comment.
- ☐ Admins can control the user's and admin's activity by blocking and approving them.
- ☐ Admins can post query and reply to user's queries.
- ☐ Queries are sorted according to time. Newest posts will show first.
- ☐ Admins can also use the site as a mother through Switching method.

## **REQUIREMENTS:**

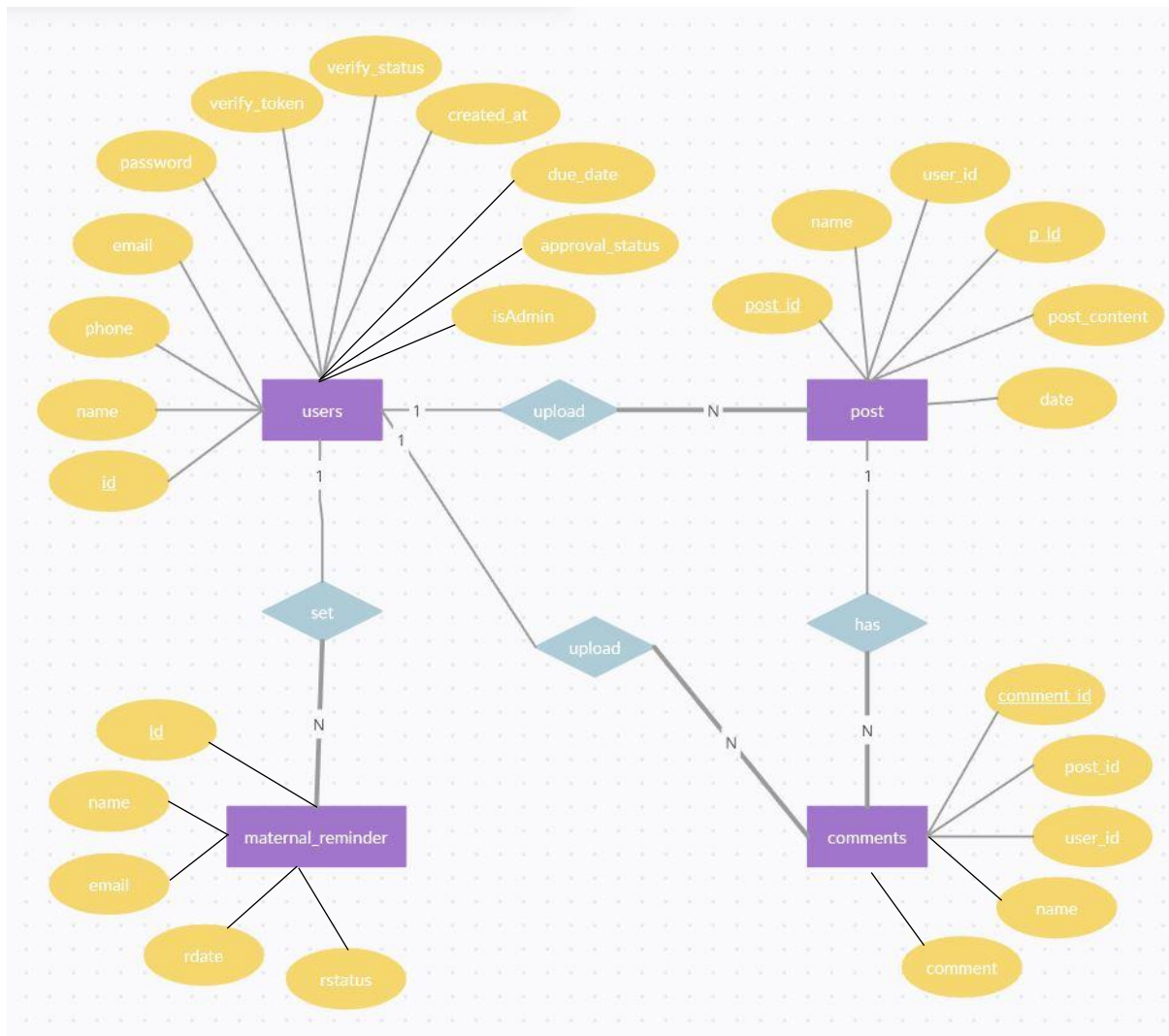
### **System Requirements:**

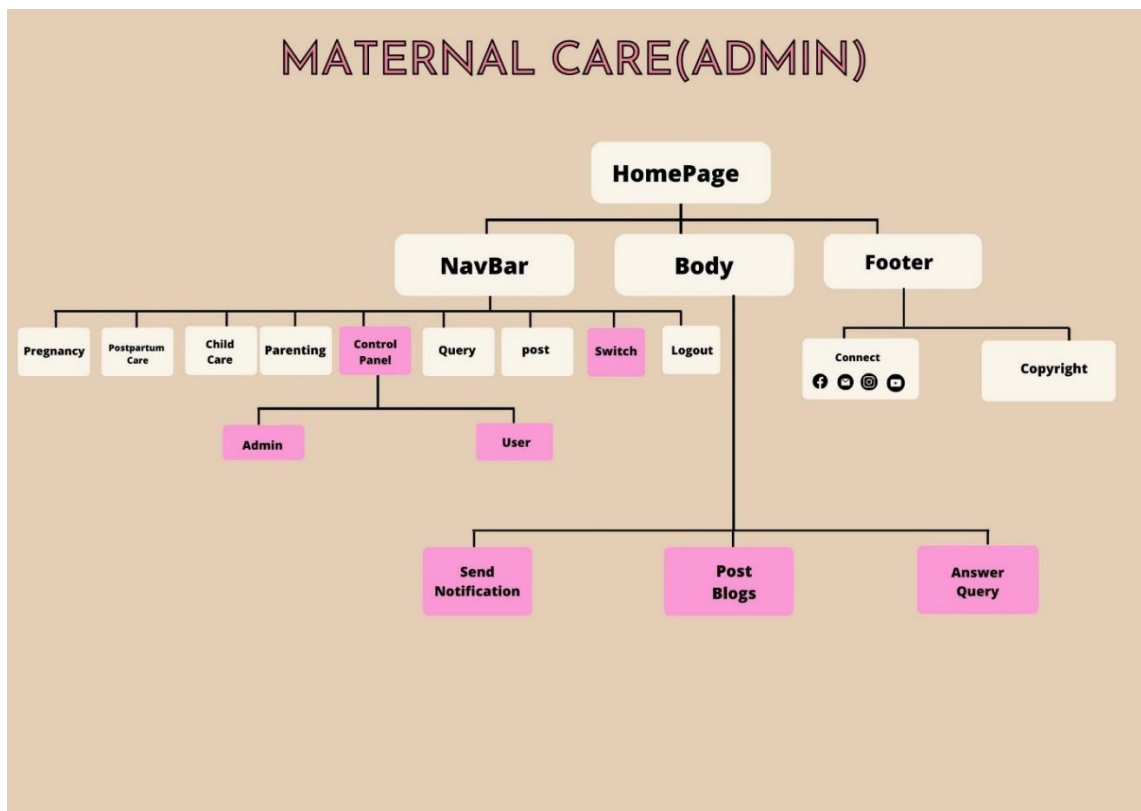
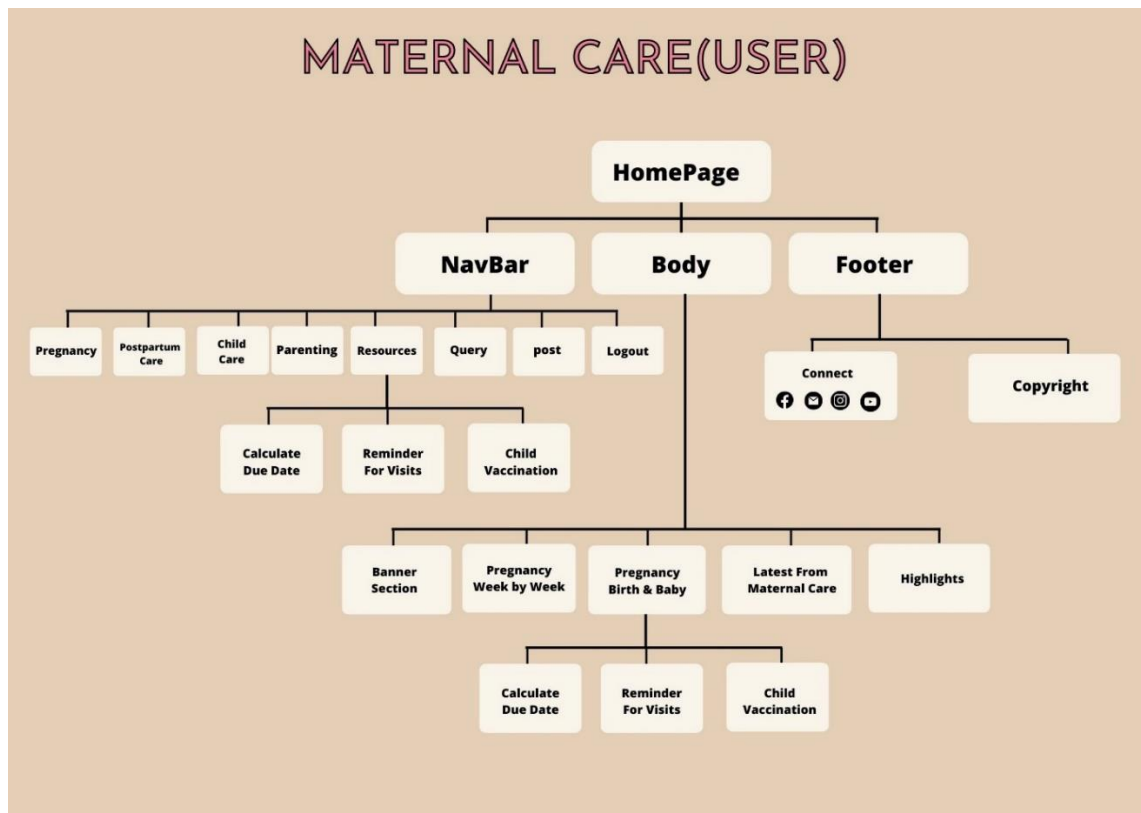
#### **Software Requirements:**

- ☐ Visual Studio Code
- ☐ PHP
- ☐ MySQL
- ☐ XAMPP
- ☐ Operating System : Any (Linux, Windows, Mac etc)

#### **Hardware Requirements :**

- ☐ Processor Pentium IV or higher version.
- ☐ Ram 128 MB or above
- ☐ Hard Disk 150 MB or above

**ENTITY RELATIONSHIP DIAGRAM:****Fig: E-R Diagram**

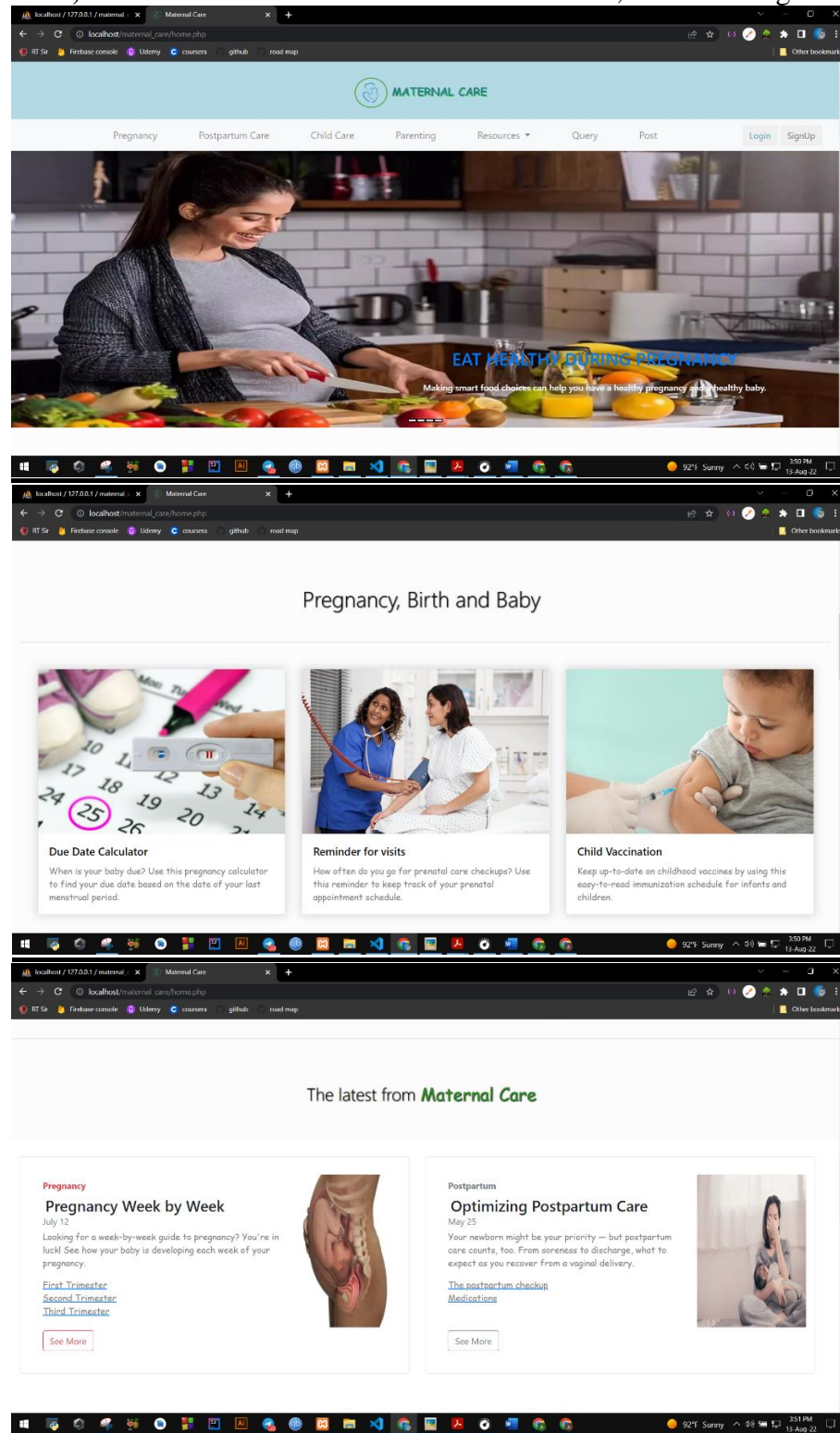
**Tree Segmentation View :**

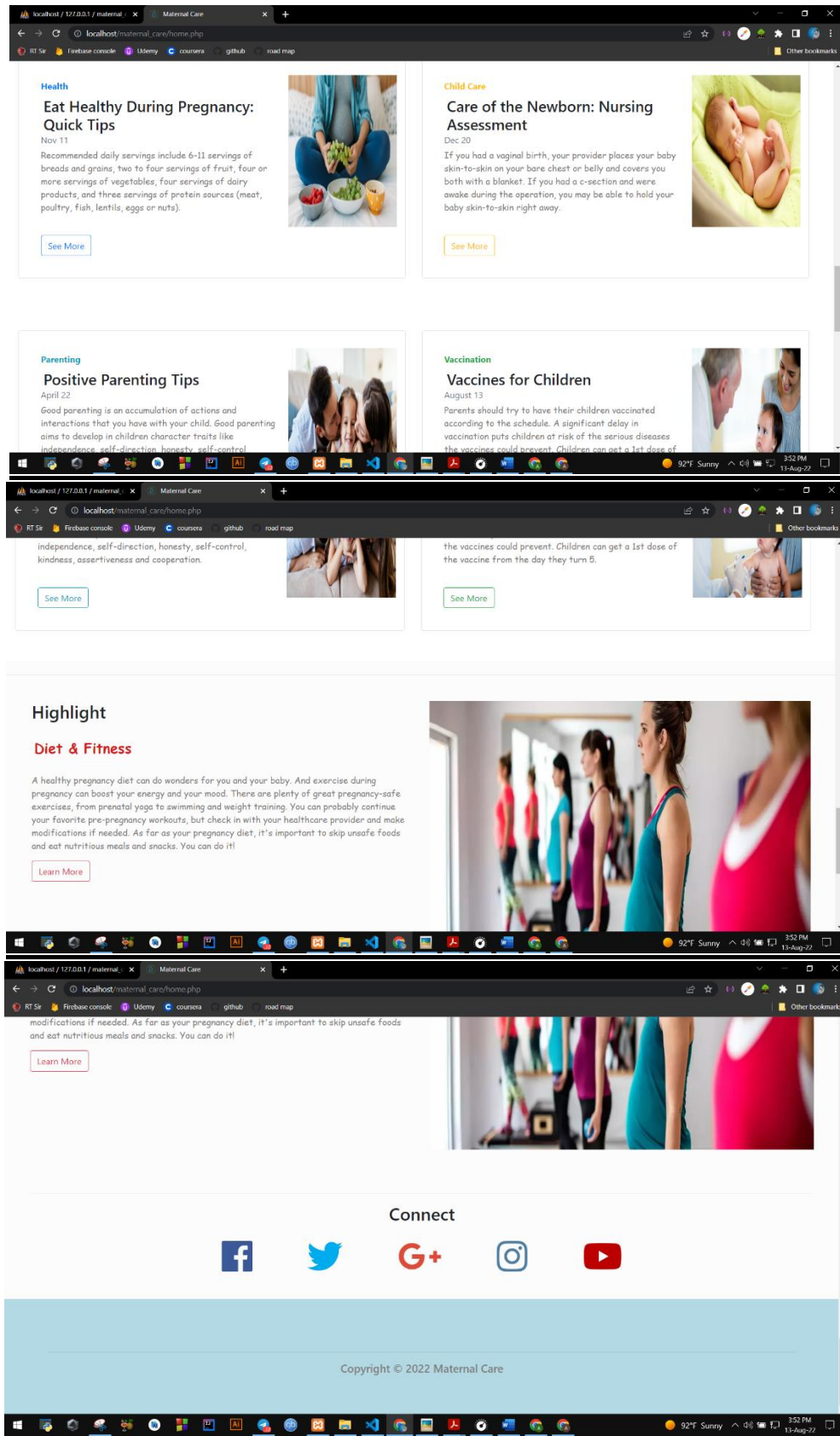


## Snapshots :

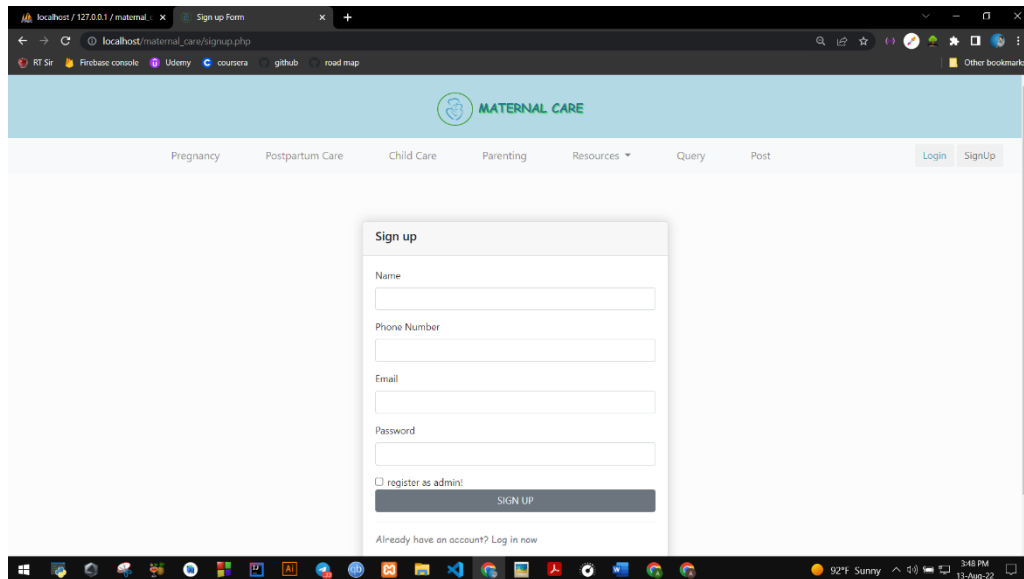
### i. Home Page:

Anyone can view this page without login. But can't access some features, like **Due Date Calculation, Reminder for Visit, Child Vaccination**. To access these features, user must login.



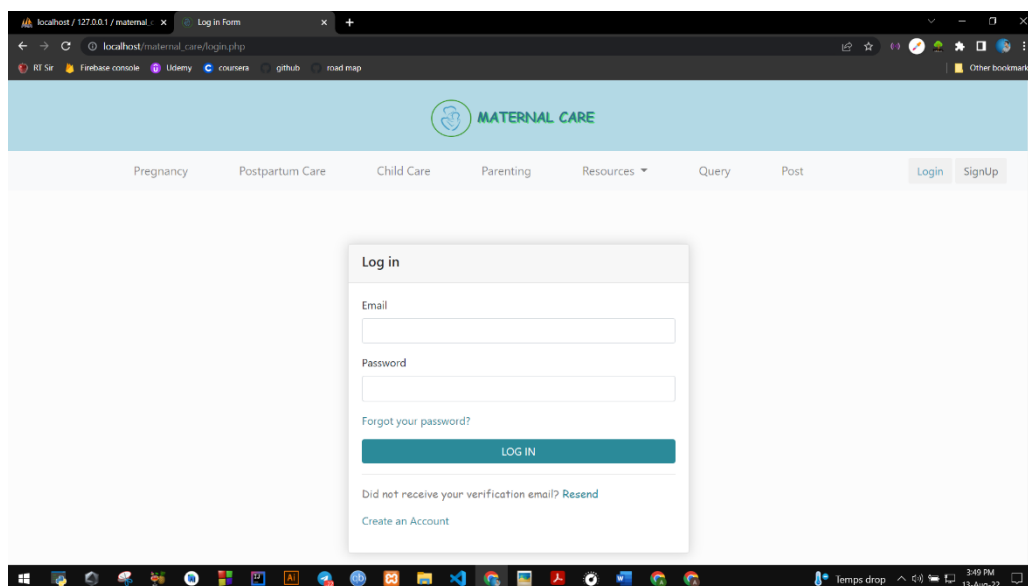


## ii. Registration Page :

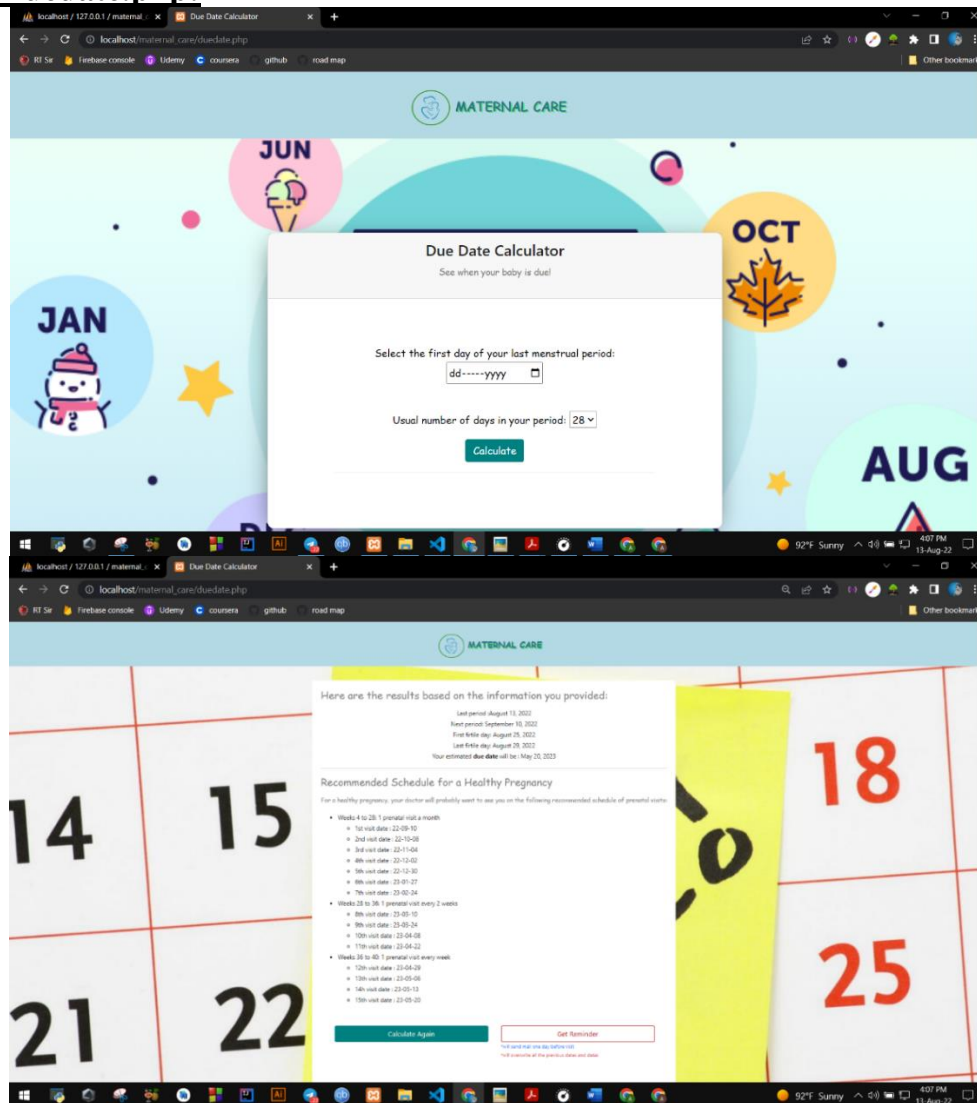


The screenshot shows a web browser window with the URL `localhost:127.0.0.1/maternal_care/signup.php`. The page features a light blue header with the "MATERNAL CARE" logo and a navigation menu with links: Pregnancy, Postpartum Care, Child Care, Parenting, Resources, Query, Post, Login, and SignUp. A central "Sign up" modal form is displayed, containing input fields for Name, Phone Number, Email, and Password. Below these fields is a checkbox labeled "register as admin!" and a "SIGN UP" button. At the bottom of the modal, a link reads "Already have an account? Log in now".

## iii. Login Page:



The screenshot shows a web browser window with the URL `localhost:127.0.0.1/maternal_care/login.php`. The page features the same light blue header and navigation menu as the registration page. A central "Log in" modal form is displayed, containing input fields for Email and Password. Below these fields is a "Forgot your password?" link, a "LOG IN" button, and a link that reads "Did not receive your verification email? Resend". At the bottom of the modal, a link reads "Create an Account".

iv. DueDate.php:

## Pregnancy Week by Week:

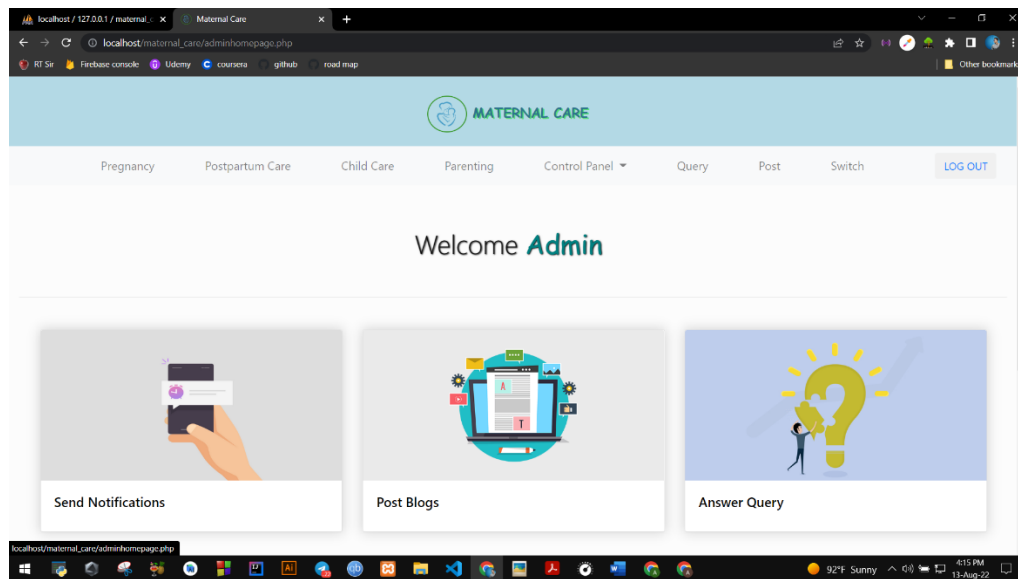
After Login, if the user calculate Due Date and set reminder, she will get this Message Bar under the Owl Carousel



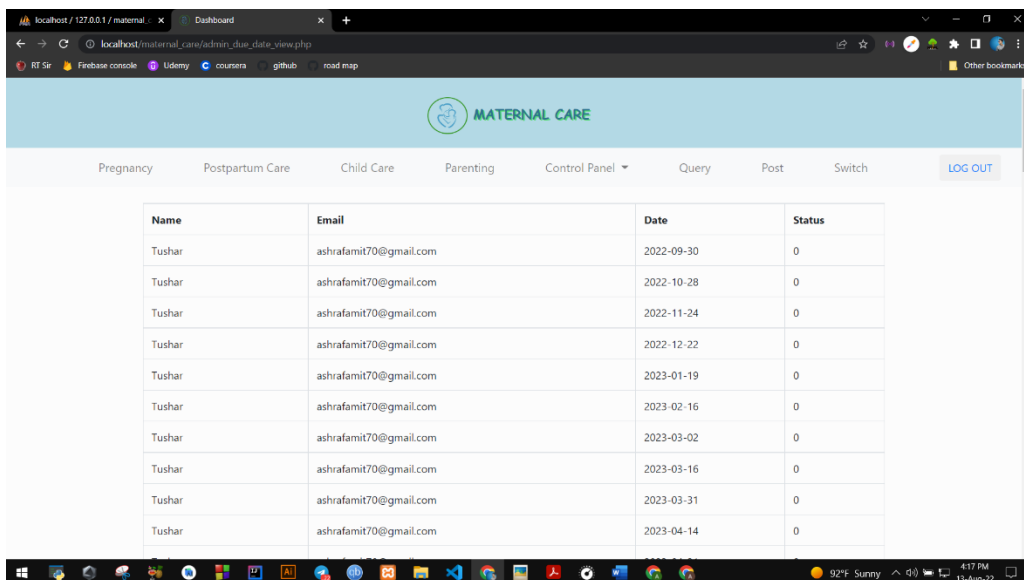
## v. Maternal reminder.php :

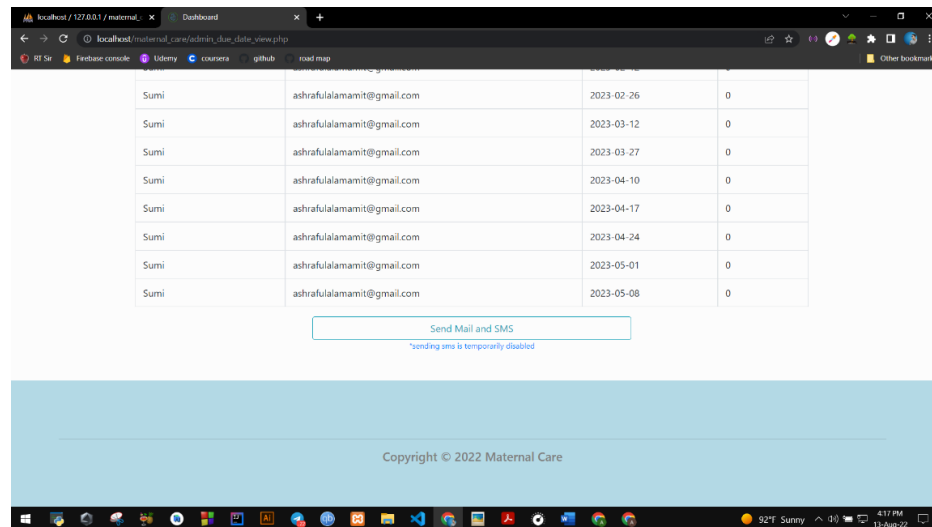
## vi. Childvaccine.php:

Vaccine	Disease	No. of Doses	Interval between doses	Starting time of doses	Route of Administration
BCG	Tuberculosis	1	-	After birth/ if not possible with Penta 1	Intra dermal
Pentavalent	Diphtheria, Pertussis, Tetanus, Hepatitis B, Haemophilus Influenza B	3	4 weeks	Penta1: September 24, 2022 Penta2: October 22, 2022 Penta3: November 18, 2022	IM
PCV	Tuberculosis	3	4 weeks	PCV1: September 24, 2022 PCV2: October 22, 2022 PCV3: November 18, 2022	IM
OPV	Tuberculosis	4	4 weeks	OPV0: Soon After Birth OPV1: September 24, 2022 OPV2: October 22, 2022 OPV3: November 18, 2022	Oral
MR	Tuberculosis	1	-	After: October 15, 2022	Subcutaneous
Measles	Tuberculosis	1	-	After: November 22, 2022	Subcutaneous

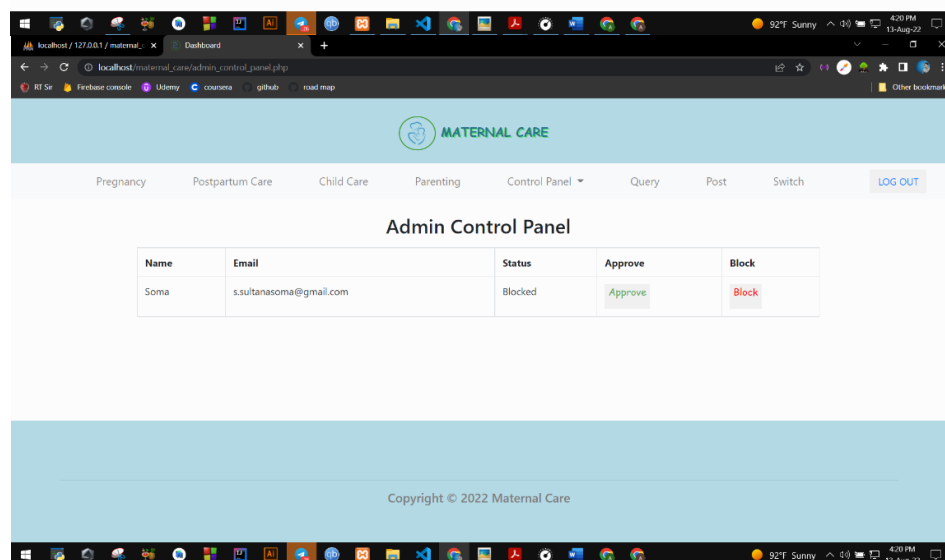
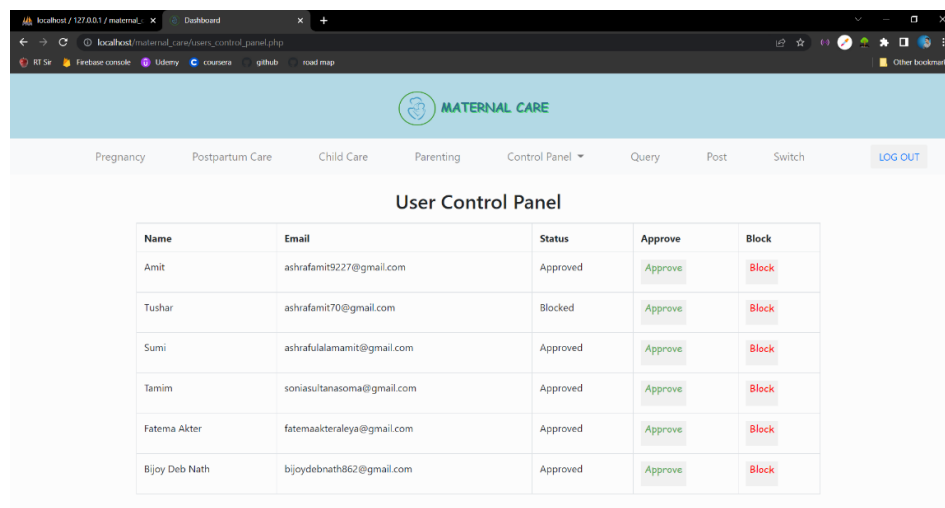
**vii. Admin Home Page :****viii. Send Notification :**

From this page, admin can send mail and SMS notification manually

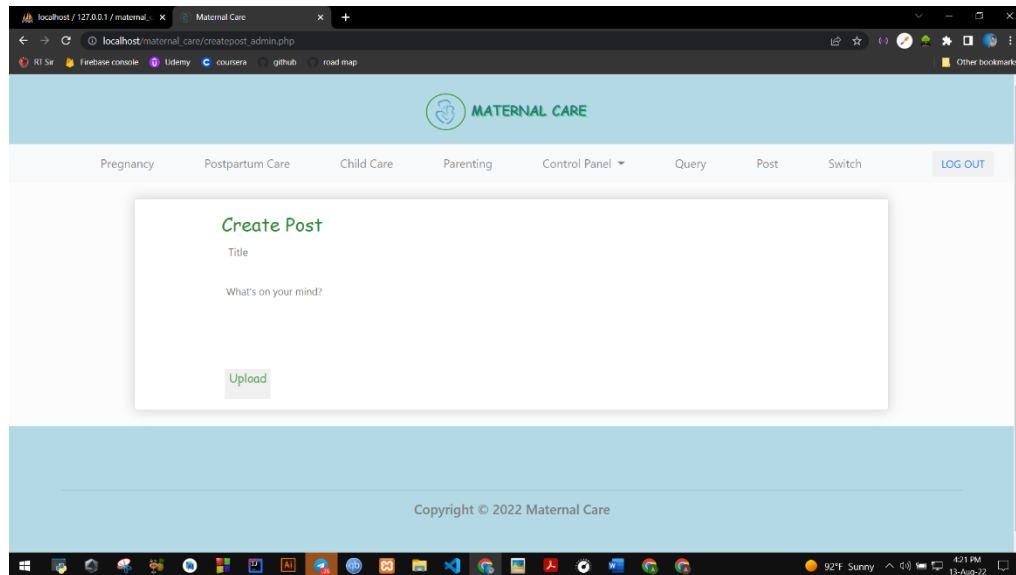
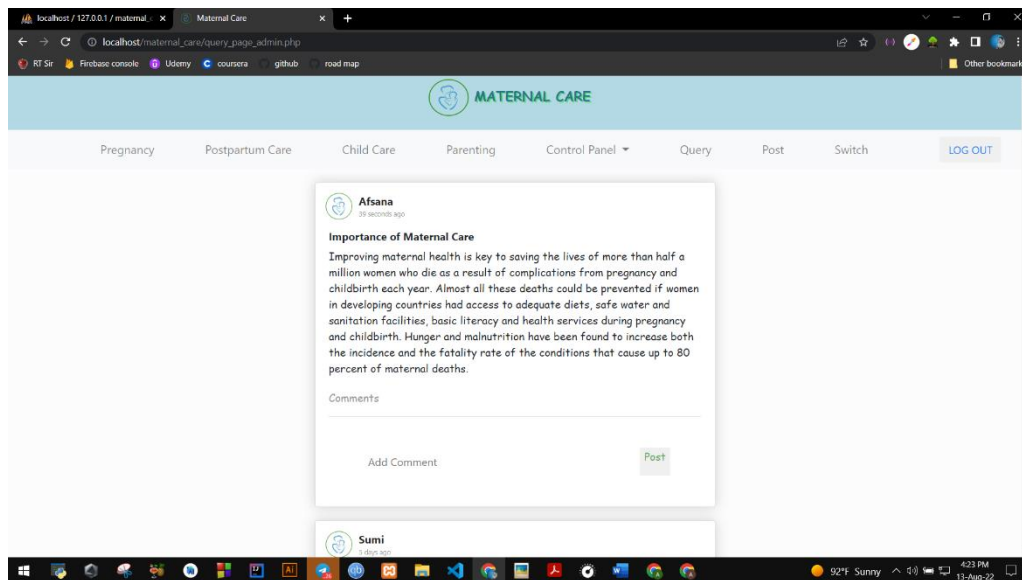




### ix. User Control Panel :





**x. Writing Post Page :****xi. View Query Page :**



## **CONCLUSION :**

Using this website a mother can calculate her fertile days, next period and due date. Calculating fertile dates can help her to get conceive. After conceiving, she can upload her due date to get email and SMS reminder to get the routine visit alarm. Routine visit is very important during pregnancy.

The website use PHP Mailer to send mail, and Cronjob will automate the mailing process and use TextLocal Api to send SMS.

There is a Query section where any mother can post her queries. Through this, she can directly get help from specialists.

Admins can block and approve both mother and other admins.