MATRIJOTNO: AN ANDROID APPLICATION TO PROVIDE RESOURCE FOR NEW AND EXPECTANT MOTHERS

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DAFFODIL INTERNATIONAL UNIVERSITY DHAKA, BANGLADESH JANUARY 2023

APPROVAL

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We hereby declare that, this project has been done by us under the supervision of Ms. Samia Nawshin, Assistant Professor, Department of CSE Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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ACKNOWLEDGEMENT

First, we express our heartiest thanks and gratefulness to almighty God for His divine blessing makes us possible to complete the final year project/internship successfully.

We really grateful and wish our profound our indebtedness to **Ms. Samia Nawshin**, **Assistant Professor**, Department of CSE Daffodil International University, Dhaka. Deep Knowledge & keen interest of our supervisor in the field of "Android Application" to carry out this project. His endless patience, scholarly guidance, continual encouragement, constant and energetic supervision, constructive criticism, valuable advice, reading many inferior drafts and correcting them at all stage have made it possible to complete this project.

We would like to express our heartiest gratitude to **Prof. Dr. Touhid Bhuiyan**, and **Head**, Department of CSE, for his kind help to finish our project and also to other faculty member and the staff of CSE department of Daffodil International University.

We would like to thank our entire course mate in Daffodil International University, who took part in this discuss while completing the course work.

Finally, we must acknowledge with due respect the constant support and patients of our parents.

ABSTRACT

For many women, being pregnant is a momentous life event. It's normal practice to monitor pregnancies with mobile apps or application. The stigmatized condition of pregnancy loss is a frequent problem that affects a person's well-being, connections, sense of self-worth and more. While many who experience pregnancy loss value it, it is unclear how much it is taken into consideration in pregnancy-related mobile apps and application designs or how much the requirements of users who experience it are taken into account. A feature study of 166 pregnancy-related apps was done. We discovered that these apps' primary functions center on reporting, tracking, notifications, and socialization, and that 72% of them fail to take loss into account, while 18% do so explicitly and 10% do so implicitly. This disregard for others' feelings is what we term "symbolic destruction by design." We contend that such destruction is influenced in part by increased motherhood ideals, significantly vilifies stillbirth, and upholds a detrimental and stigmatizing normative, linear portrayal of the maternity experience. The use of digital medical technology and the dissemination of information regarding risk and health is becoming more and more significant. A key technology in digital health and risk communication is mobile software. Pregnancy-related apps are a popular category. Pregnancy-related applications number in the hundreds, and many of them are quite well-liked. However, there hasn't been much sociological research done that tries to address the content of these apps and how they try to pique users' interest. We analyze these data to determine how pregnant and fetus embodied, including health-related conversations and practices, are expressed in these apps.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

In this study, we investigate how smartphone-based pregnancy-related mobile software and applications configure maternal existence by drawing on the results of a critical discourse evaluation. Android application is very user friendly nowadays, besides application. Those two sides are very popular. We talk about how these gadgets represent a woman's body as being at risk during pregnancy and how to use applications for attentive self-surveillance to prevent harm to both the woman and her unborn child. We demonstrate that the construction of the pregnant body and identity takes on a more fun tone in the second dominating mode of projection ('thrills'). To highlight the pleasurable elements of pregnancy, app developers employ fluidification tactics and promote the social communication of pregnancy-related information. We discovered that both categories of pregnancy-related applications encourage behaviors that maintain heteronormative and feminine standards for sexuality, motherhood, and consumerism. These applications portray pregnant bodies as areas of risk and satisfaction. They are societal artifacts. Consumers of the applications are urged to think of pregnancy as an embodied kind of careful supervision, surveillance, presentation, and performance in both situations.

1.2 Motivation

The use of digital healthcare technology and the dissemination of information regarding risk and health is becoming more and more significant. Smartphone software programs (apps) are a key piece of digital health and risk telecommunication. Pregnancy-related applications number in the hundreds, and many of them are quite well-liked. However, there hasn't been much social research done that aims to pique people' curiosity. We used the results of a critical conversation analysis of every pregnancy-related app to inform this research. Our project is very useful for any pregnant woman because here she knows about all the details in this app anyone have to provide necessary details then log in our

application. After that some features are shown like, Nirdeshona appointment, amar proshno, emergency doctor. In the instructions portion here all kind of necessary steps are given pregnancy period is very critical and vital for every woman. In this time what to do and what not to do all details are described in the matri jotno part is divided 5 segment pusti, kheladhula, gorvaobosthar somossa, bisram and prosober prostuti. Those part are very essential. All details are provided here. Using this application anyone can appoint and conversion any doctor for any kinds of problem. This application is very user friendly and in our daily life based.

1.3 Objectives

With the majority of pregnant women utilizing them in rising nations, pregnancy apps are a burgeoning worldwide market. The requirement signals a specific pathway for the creation of forthcoming capabilities, but it also highlights the necessity of systems providing access, dependability, and quality management. From the standpoint of health care and service supply, this is both promising and troubling. Mobile applications have revolutionized how we perceive and interact with online conversations during the past ten years. Various academics have discussed this conversion by claiming that we have seen a transition from a Browsing experience that was more "open and innovative" to a communal experience of digital interactions that has drastically increased in commodification, patterning, and managed service determination.

- To discuss about logging in our system provide necessary information
- Providing necessary instructions
- Fixed selected doctor appointment easily
- Different questions proper solutions
- To discuss here emergency doctor details.

1.4 Expected Outcome

We discovered that the main use of pregnant applications was to get data on baby growth and pregnancy health. Women particularly frequently requested social networking sites capabilities, Application-based tools, and backup and recovery capacity in their favorite apps. Intake of the pregnancy app was shown to be decreased among women who spoke

languages other than English and those with lower incomes. The use of pregnant applications by these populations may be less widespread because of a combination of technology, health literacy, and linguistic problems; additional research is needed. Lack of regulation in a subject that is commercially controlled is a glaring disadvantage of the health app market, which makes it difficult for consumers to judge the validity of the data being offered.

1.5 Project Management and Finance

The cost, income, and profitability of a project are all managed through projects financial management, often commonly referred to as financial reporting. It combines strategy, forecasting, planning, sourcing, controlling project expenditures, and invoicing in order to achieve this. Project implementation accounting is unquestionably the most crucial of all these facets of economic project planning. After there, it becomes a matter of maintaining that budget during the duration of the project while making sure the task is finished within the agreed budget. Budget-conscious strategic planning seeks to keep initiatives on track. As a result, managerial accounting for initiatives on a personal level not only aids in better project organization and administration, but also has a favorable impact on the company's growth. This occurs as a result of project finance management's contribution to harmony:

- Capital and anticipated profits on a project.
- The possible effects of a current project on future developments.
- Influence on your agency as a whole.

1.6 Report Arrangement

The report layout is given below:

Chapter 1, Introduction.

Chapter 2, Background.

Chapter 3, requirement specifications of our application.

Chapter 4 is all about designing the application.

Chapter 5 is implementations and testing information.

Chapter 6, about the impacts.

Chapter 7, last but not least, discussion and conclusion.

CHAPTER 2

BACKGROUND

2.1 Introduction

Most pregnant women in high-income nations now use pregnancy apps, which is a huge worldwide market. The desire signals a proper guidance for the creation of forthcoming supplies, but it also highlights the necessity of mechanisms providing access, dependability, and quality standards. This is both promising and disconcerting from the standpoint of health care and medical knowledge supply.

2.2 Related Works

Mobile applications develop new habits, shape and replicate norms, attitudes, and opinions, and operate as effective agents of power and authority. They serve as indicators of the conditions that are or are not essential to people as cultural objects because they are the result of human judgments, presumptions, and conventions within in the environments in which they are constructed and utilized. While the cultural structure of technology is vital, it is equally crucial to seriously reconsider the innovations and underlying ideas themselves. Some related apps are given below



Figure 2.2: Related Works

• Pregnancy +

An excellent app for pregnant ladies is Pregnancy Tracker. One of the best pregnant programs for you is this one called Pregnancy Tracker! Have such a good pregnancy by using pregnancy apps.

• BabyCenter - Pregnancy tracker

It provides weight and kick monitoring, which is quite useful. Additionally, there is a section with links to goods you could require throughout each period.

• Ovia Pregnancy & Baby Tracker

Ovia Pregnancy & Baby Tracker, the pregnancy app used by over 9MM expectant parents, offers a personalized experience with daily pregnancy updates and week by week baby growth and development articles. Having a baby? Ovia Pregnancy is a comprehensive pregnancy tool that includes a due date counter, planner, baby progress tracker, and more.

• মা – Maa

It's an application where you can track your pregnancy period and baby growth.

• Pregnancy Tracker

Infant Tracker features include a tracker for breast - feeding and baby feeding, new born baby feeding, a sleeping tracker, a diapers tracker, and a healthcare tracker.

2.3 Comparative Studies

Our application is a perfect platform for any person, who wants to remember his medical history. There are more applications like this but our work is a better version for sure. It could be helpful for both doctors and patients. Doctors can also see the past vaccinated history of any patient. Users can see their vaccine type, which area they are going to get their vaccine and many more. Users can get their individual account by registering here.

2.4 Challenges

Additionally, compelled digital engagement presents a new layer of complication in the research of pregnant applications. This is due to the fact that these applications collect, store, and distribute a staggering amount of revealing personal data regarding potential children. Therefore, parental control over a child's engagement in digital media rests with

the parents, who provide a lot of personally identifying information about their unborn children. We are unsure of how this data will affect children's cloud-based profiles in the term, whether they will be lost or combined with other data. We do, nevertheless, know that data rules do not address this issue and gather children's data by relying on a nebulous vocabulary that again places the onus on users.

CHAPTER 3

REQUIREMENT INSTRUCTION

3.1 Business Process Modeling

The characteristics of the software, the project's graphical user, and those qualified to use it will all be covered in this part. It will provide examples of the information required to develop and run this application. It is crucial because it demonstrates how the technology interacts with the requirements.

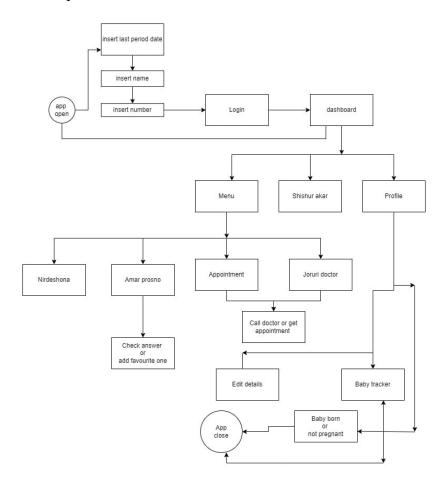


Figure 3.1 Business Process Modeling

3.2 Requirement Collection and Analysis

• This application can assist a newly pregnancy woman

- At first login portion, Here providing necessary information after that providing phone number then log in session is completed.
- Our dashboard is shown now, here some necessary features are available.
- Instructions portion are very useful any pregnant woman. Because here describe in details what to do and what not to do. This part is divided into 5 another segment. Pusti: here describe what kind of food are important for baby and mother.

Playing: in our society people think in this time playing is harmful which is not right. Here describe all details.

Pregnancy problem: in this time every woman facing many problems, in this time mood swing is very natural term in this section is all about some common problem.

Rest: it's a very important part. Here a proper time schedule is described for rest and lastly Pregnancy preparation

- Appointment: in this part patient party can appoint their selected doctor anytime
- Question Answer portion: here patients can ask any pregnancy related questions
- Emergency doctor: this period in every second in very critical and vital. For this reason, emergency doctor plays an emergency role.

3.3 Use Case Modeling and Description

Use case links between any cases, actors, and institutions are typically condensed in use case diagrams. There are sporadic deviations from the established pattern. It essentially builds a system's framework, documents the goals, and validates the system design. The actor is also given the option to create, accept, change, and remove features, and it outlines the architecture of the development's intended features. Thespian customers and administrators have access to particular functionalities, as shown in Figure 3.1. Connections are formed between users and the guest book, as well as between administrators and the administration panel.

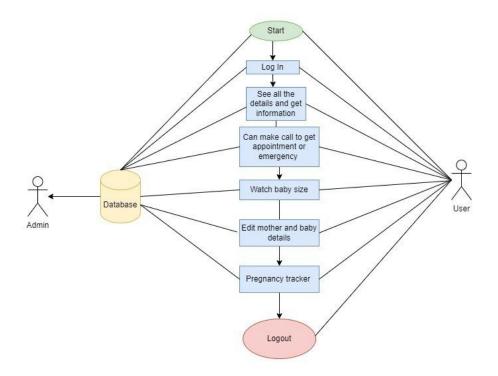


Figure 3.3: Use Case Model Diagram

3.4 Design Requirements

Every project needs some design requirements to build a good and presentable work.

Efficient: We design our application simply.

User-Friendly: User friendly system is the first requirement of any project and we tried to work hard on that.

3.5 System Requirements

Tools:

- 1. Xampp
- 2. VS code editor

Languages:

1. PHP

- 2. MySQL
- 3. LARAVEL
- 4. JAVA, XML

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-End Design

Generally front-end design is the decoration or design part of any application. We used HTML, CSS, Bootstrap and JS. In Front-end part we design the features given below:

4.1.1 Login

This is our log in page from where user can log in to the application. Here we have to log in with last period date, name and phone number.



Figure 4.1.1 Log in

4.1.2 Matrijotno-Dashboard

This is our application dashboard which contains all features like guidance, appointment, questions, emergency doctor.





Figure 4.1.2 Matrijotno-Dashboard

4.1.3 Matrijotno-Nirdeshona

This is the subpage under guidance(Nirdeshona) where user can find all the information related to pregnancy.



Figure 4.1.3 Matrijotno-Nirdeshona

4.1.4 Pushti

This is subpage under nutrition (Pushti) where a user can collect information about foods.



Figure 4.1.4 Pushti

4.1.5 Kheladhula

In this feature we can see the exercises which need during pregnancy time.



Figure 4.1.5 Kheladhula

4.1.6 Gorvaboshthay Shomossha

In this feature we can find the difficulties during pregnancy time.



Figure 4.1.6 Gorvaboshthay Shomossha

4.1.7 Bishram

In this feature we can see the rest timing during pregnancy, where user also can know about medicine that should avoid pregnancy period.



Figure 4.1.7 Bishram

4.1.8 Proshober Prostuti

In this feature we can see the preparation for delivery, and take information about various delivery system



Figure 4.1.8 Proshober Prostuti

4.1.9 Matrijotno-Apointment

Here is the feature where a user can appoint a doctor by hospitals hot line number.



Figure 4.1.9 Matrijotno-Apointment

4.1.10 Matrijotno-Amar proshno

Here a user can collect and search from the topic and save her favorite ones in "Amar Proshno"



Figure 4.1.10 Matrijotno-Amar proshno

4.1.11 Matrijotno-Joruri Doctor

In any case user finds any emergency case she can contact this doctor instant.



Figure 4.1.11 Matrijotno-Joruri Doctor

4.1.12 Matrijotno-Shishur Akar

User can track her baby size by a reference picture and comparison weight and height.



Figure 4.1.12 Matrijotno-Shishur Akar

4.1.13 Matrijotno-User Profile

This feature contains tracking system about pregnant women and also age of the baby. Here user also can edit various information and options. And the left option shows log out button if anyone is not pregnant.

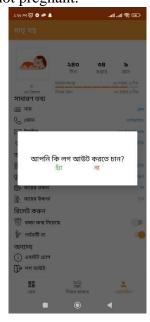




Figure 4.1.13 Matrijotno-Sishur Akar

4.1.14 Matrijotno- Ovinondon

It is the feature of congratulating user after born a baby.



Figure 4.1.14 Matrijotno- Ovinondon

4.2 Back-End Design

This is the main working part of an application.

4.2.1 Code

We used PHP code language for this part. And we use VSC to implement this.

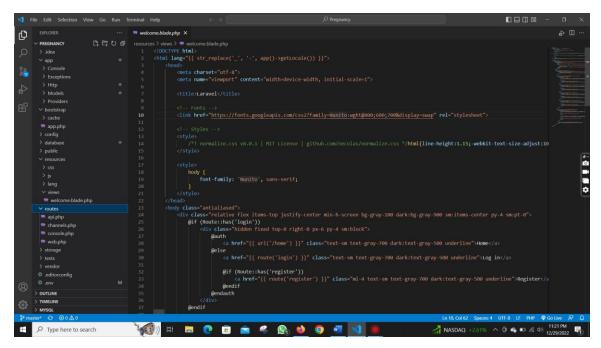


Figure 4.2.1 Code

4.2.2 Database Loading

For data loading we used PhpMyadmin.

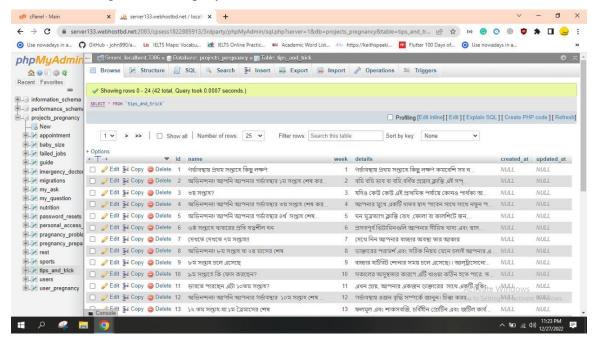


Figure 4.2.2: PhpMyadmin

4.2.3 Server

We use our server using Xampp.

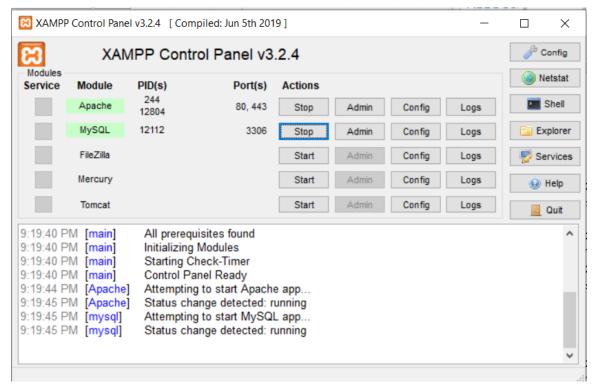


Figure 4.2.3: Xampp

4.3 Interaction Design and User Experience

Interaction designers are focused on the moment when a user interacts with a product and their goal is to improve the interactive experience. For UX designers, the moment of interaction is just a part of the journey that a user goes through when they interact with a product. User experience design accounts for all user-facing aspects of a product or system [5].

4.4 Implementation Requirements

To implement or run application we need to fulfill some requirements. As for running our PHP code we used VSCode. Our project is an application so we defiantly need a browser to live our application.

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database

For implementing our database, we used

• MYSQL

MySQL is the de-facto standard database system for application with HUGE volumes of both data and end-users [6].

5.2 Execution of Front-End Design

We use- XML for front end design.

5.3 Implementation of Interactions

It's important to engage with plenty of people and get their input while developing a strong application. Our application plan was mostly discussed with and received comments from our professors. To create a user-friendly program, we even discuss our ideas with family and friends after integrating some features.

5.4 Testing Implementation

The process of testing an application is crucial to its implementation. No matter how well we perform, errors will always occur. Thus, testing is an essential stage. It will take us less time to remedy a mistake if we test our application at every stage after finishing a task.

5.5 Test Results and Reports

The test case table is given below:

Table 1: A Test Case for the Application

Test case Type	Details	Expected Result	Actual Result	Status	Testing Date
Install	Installed by valid mobile	Successfully Installed	Successfully Installed	Passed	25/09/2022
Log In	Insert last period date, name & phone number	Log In	Log In	Passed	25/09/2022
Run all the options	Showing all details about the options	All the details available	All the details available	Passed	25/09/2022
Calling Feature	Call from the app through emergency doctor or get appointment	Successfully making a call	Successfully make a call after give app call permission	Passed	25/09/2022
Save favourite questions	Save question from question section	Successfully saved	Successfully saved	Passed	25/09/2022
See baby size	Showing baby size with a reference picture	Successfully showed	Take some time to load picture	Passed	25/09/2022
Tracker	Pregnancy tracking by day/week/month	Successfully showed	Successfully showed	Passed	12/10/2022
Edit or add	Edit or add information of baby and mother	Successfully saved	Successfully saved	Passed	12/10/2022

Baby born	After boring baby, the tracker will stop	Successfully stopped	Successfully stopped	Passed	12/10/2022
Logout	If one is not pregnant, she can logout or any user generally can logout	Successfully logout	Successfully logout	Passed	17/11/2022

CHAPTER 6

IMPACT ON SOCIETY, ENVIRONMENT AND SUSTAINABILITY

6.1 Impact on Society

The use of pregnancy app is currently highly popular and important in our society. Because different people benefit in different ways from this application, it has considerably simplified our lives in a few key ways. Users are drawn to Android applications when all forms of information are constantly available. Since it is in the emergency sector, its influence is very great. Anyone can utilize this program. A pregnant woman encountered numerous issues, and occasionally they were unable to switch hospitals. as a result, they must get anything by using this software. There are some amazing advancements and successes on the list here.

- Using this application, a new mother can know each and every single term. What can do and what cant
- Our application has different sector like matri jotno, instruction, appointment, emergency doctor
- Here anyone can check doctors schedule and take appointment.
- User can know about food habit, play, rest, working types about a pregnant mother.

6.2 Impact on Environment

Any modification to the environment—whether favorable or unfavorable—resulting from the operations or services of a facility is referred to as an environmental consequence. It might also be used to describe the effects that people's choices and deeds have on the surroundings.

6.3 Ethical Aspects

It is a thorough document that outlines the administrative, social, and economic aspects of the system as well as its aims. The industry professionals might streamline routine tasks thanks to these concepts for all-business applications. Our principal goal is to keep all pregnant mothers safe.

When a user signs into our system using the proper information, our program must provide an interface divided into five segments. directions, an appointment, a doctor in case of emergency, and MatriJotno part are here. Following the Matri Jotno part, there is another new feature in this section. Here, there are prostuti, kheladhula, problems, and rest. those are crucial sections. Important information is contained in each of the sections.

There are three categories under "rest": travel, sleep, and medication.

those are crucial industries. A pregnant mother must continue to take all those steps. We strive to develop our application by include all necessary information.

Users may verify and make appointments in this section.

emergency physician – This section displays all available emergency physician schedules.

6.4 Sustainability Plan

The digital era is fueled by ongoing competition and is knowledge-based. A smartphone feature was created today, but it won't be long before a second one with more features appears, making the first request less valuable. We intend to establish our application work pretty aggressively for this competition. Customers will be able to get this Android software for nothing. You might find any information more quickly by browsing. Without advertising, usage will be considerably more enjoyable. Our application users will benefit from the agreements we will make with the doctor schedules, assistance, and features of various nations. They have access to immediate assistance for any issue.

CHAPTER 7

CONCLUSION AND FUTURE OPPORTUNITIES

7.1 Future Opportunities

Nowadays mobile application is very user friendly and useful system. Anyone can access it easily. In future we convert it in a application. Besides,

- 1. Create an online store with all of the necessary items for a mother and a baby.
- 2. Include a rural area transportation system with ambulances and vans.
- 3. Include Google Map to identify nearby medical facilities and clinics
- 4. Add pharmacies close to the user region.

7.2 Limitations

No work is perfect. Although we tried to make a bug and error free application, but still, we have some limitations.

In near future we will surely going to try to remove all these limitations.

7.3 Discussion

This project will add a new invention in medical field of our country. This is an application for all. It is important for everyone to remember about their medical history especially when it comes to vaccines. With the help of our application, a common people can note down their vaccine history without any help from any doctor. And when they need it, they can find it easily in any medical emergency. Doctors can also give proper treatment to a patient with the history without taking any risk.

7.4 Conclusion

Additionally, our investigation has shown how pregnancy is turning into a more commercial event. Although it is not a completely new development, applications have

quickly adopted it. Apps that let parents watch over a mother's actions are a prime illustration of this. A new mother has a lot of flexibility in this situation. The answer to any difficulty can be found here. You may schedule an appointment and find a doctor in case of emergency here. It can require emergency doctor assistance when used in conjunction with other applications that portray pregnancy as a dangerous condition requiring care.

Pregnant women have previously been provided with a variety of media to encourage them to learn about and carry out pregnancy. but nowadays, we have the means to solve any issue.

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