

WEB BASED MOTHER AND BABY CARING SYSTEM

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This Report Presented in Partial Fulfillment of the Requirements for the Degree
of Bachelor of Science in Computer Science and Engineering

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DHAKA, BANGLADESH
APRIL 2018

APPROVAL

This Project titled “**Web Based Mother and Baby Caring**”, submitted by Md. Yusuf Alam and Md. Sajib Miah and Md. Rakibujjamal Prince to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 5th May 2018.

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We hereby declare that, this project has been done by us under the supervision of **Mr. Muhammad Muhaiminul Islam, Lecturer, 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 successfully.

We really grateful and wish our profound our indebtedness to **Mr. Muhammad Muhaiminul Islam, Lecturer** and **Shah Md. Tanvir Siddiquee, Senior Lecturer**, Department of CSE, Daffodil International University, Dhaka. Deep Knowledge & keen interest of our supervisor and co-supervisor in the field of “*Website*” to carry out this project. His endless patience, scholarly guidance, continual encouragement, constant and energetic supervision, constructive criticism, valuable advice, reading many inferior draft and correcting them at all stage have made it possible to complete this project.

We would like to express our heartiest gratitude to **Dr. Syed Akhter Hossain, Professor & Head, Department of CSE**, for his kind help to finish our project and also to other faculty members and the staffs 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

This project is on “**Web Based Mother and Baby Caring**”. This is a kind of Mother and Baby Caring, which helps us to get information about Pregnancy tips, family planning, baby health’s tips and many other things. It consists of the milestones in development of finalizing Mother and Baby Caring information system.

The project aimed to build a fully functional system in order to achieve the efficiency in the Mother and Baby Caring. The overall mission of the system is to provide service to the registered users regarding Pregnancy tips and also to provide necessary baby health tips. We have used HTML and CSS for front end designing and PHP and MySQL for backend coding. After completing all function, the application tested in different stages and was found working successfully.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

This specification illustrates that functional requirements for developing web based Mother and Baby caring system. The purpose of the web application and website requirements document is to systematically capture requirements for the project and the system to be developed. Both functional and non-functional requirements are captured in this document. It also serves as the input design and development as well. The structure of the system allows interacting without installing any software on client side. To access the system a browser and internet connection is required. Different type of application is uses for different task.

Especially this project we creating “Pregnancy woman” and “Mother” for Baby Care system in through of website platform. Besides, source code is completely free moreover; there are no royalty fees for using web languages like HTML5, CSS, PHP, JavaScript, Bootstrap, SQL and we use Sublime text for implementation our code.

1.1.1 Project Brief

Mother and Baby Caring Web based project (mother&babycaring.com).

The main objective of Mother and Baby caring Website is to provide Pregnancy woman and baby health information which is help to find lots of information in this segment. Keeping our objective in mind, we have created a world renowned online information services that will touch the souls of millions of people all over the globe especially for women.

1.2 Motivation

All over in the world people are depending on technology as well as website. For get more information and getting touch with virtual world, people are using web sites more frequently. We see people doing most activities on websites and online systems. In our perspective we see lots of women are very serious to their pregnancy period and baby caring activates but we see lots of women are being busy to their professional work. That's why they didn't manage enough time to analyze this kind of information. Nowadays people are interrelated with computer technology and they get manage to vital information form website. So we concern to build up this kind of website which really helps to women pregnancy as well as their baby health protection. This is very keen criteria that attracts lots of women in our society whose want keep them go through a healthy way so we think our website is the best source of information to get better feedback about women pregnancy and baby caring.

1.3 Objective

The key objectives of our project are as follows:

- Vital information during the pregnancy period of mother.
- Women's period and general health tips.
- Child and new born baby health related information.
- Facilities important blog and people to people interaction.
- Develop user friendly environment for user.
- Strong security of covering all users' information.
- Less time consuming facilities for busy user.
- Huge list of baby names and information.
- To send email to concern registered users' about child health and women pregnancy.
- To ensure serial appointment for victims.
- To provide extraordinary support from the website.

1.4 Expected Outcome

Mother and baby caring are important issues as always. New technologies, new medications and new approaches for treating the sick have changed the way we deliver care. Societal, economic and legislative forces are influencing how we pay for care and where it will be delivered. So the expected outcome of this project is to develop a system that will provide

services to the pregnant women whose are willing to birth a child besides extra health care of their baby.

1.5 Project layout

The layout of my report is assorted by:

Chapter 1: Introduction

In this chapter we have discussed about the mother pregnancy and baby's health caring as well as our motivation of our project, its objectives and expected outcome.

Chapter 2: Background

In the second chapter describes about background and comparative studies of our project. After comparative study we have analyzed our findings and discovered the scope of our projects followed by its challenges.

Chapter 3: Requirement Specification

This chapter demonstrates the business process models of our project. It also contains the requirement analysis and use case modeling. At the end of this chapter logical data model and design requirements are listed out.

Chapter 4: Design Specification

This chapter we emphasizes our Front-end and Back-end Design. At the same time it will also discusses about the interaction of design and user experience. Frequently it will ends with an implementation requirements.

Chapter 5: Implementation and Testing

In Chapter 5 we are focusing on implementation of database, front end design and interactions. Later it talks about testing implementation followed by test results and reports.

Chapter 6: Conclusion and Future Scope

The conclusion of our report by mentioning its limitation and scopes for further developments

CHAPTER 2

BACKGROUND

In generally by “project background” we mean the formal documentation of the project. In this part we expect to study about the related works done by others and also analysis their work to find new scopes.

2.1 Introduction

In pregnancy period and early born baby health issues has always played an important role in human and social life. In traditional health care system people always disappointed about concern their health. But our women are too much concern about their health during the pregnancy period and their baby caring issues. But most of the time our mother could not do much thing because during the pregnancy period they didn't move much as they can before. So internet web surfing will be the best solutions for them. It's just about a click on the websites. Internet is todays advanced technologies in the field of computers. Electronic file transfer, telecommunication and wireless networking are transferring the world from one place to another place without any hassle. Our women can choose their needed information via use this web surface at anywhere in the world. In this system people especially women easily find out their basic needed task during the pregnancy period and they will be getting more important information about baby health and healthy food routine.

2.2 Related Work

baptisthealth.com

Founded in 1924, Baptist Health has been bringing advanced medical technology, modern facilities, and many of the region's most prominent physicians and medical professionals to the communities of our commonwealth for nearly a century.

Baptist Health has more than 300 points of care include outpatient facilities which offer Urgent Care, Express Care, occupational medicine, physical therapy and diagnostics. Home care is also available in 39 Kentucky counties, six counties in Illinois and six counties in Southern Indiana. Our physician network of more than 3,000 employed and affiliated physicians continues to grow as we endeavor to improve access to healthcare and enhance the health of Kentucky as a whole.

As the largest not-for-profit health system in Kentucky, Baptist Health has made a commitment to the communities we serve to provide care and service that go beyond the expected, to include charitable contributions, educational support, community involvement

and local and regional partnerships. Collaboration between Baptist Health Madisonville and the University of Louisville offers a family practice residency program that helps to bring new physicians to rural communities and was recently recognized as the rural program producing the second highest percentage of medical school graduates in rural practice. To demonstrate the love of Christ by providing and coordinating care and improving health in our communities. To lead the transformation to healthier communities.

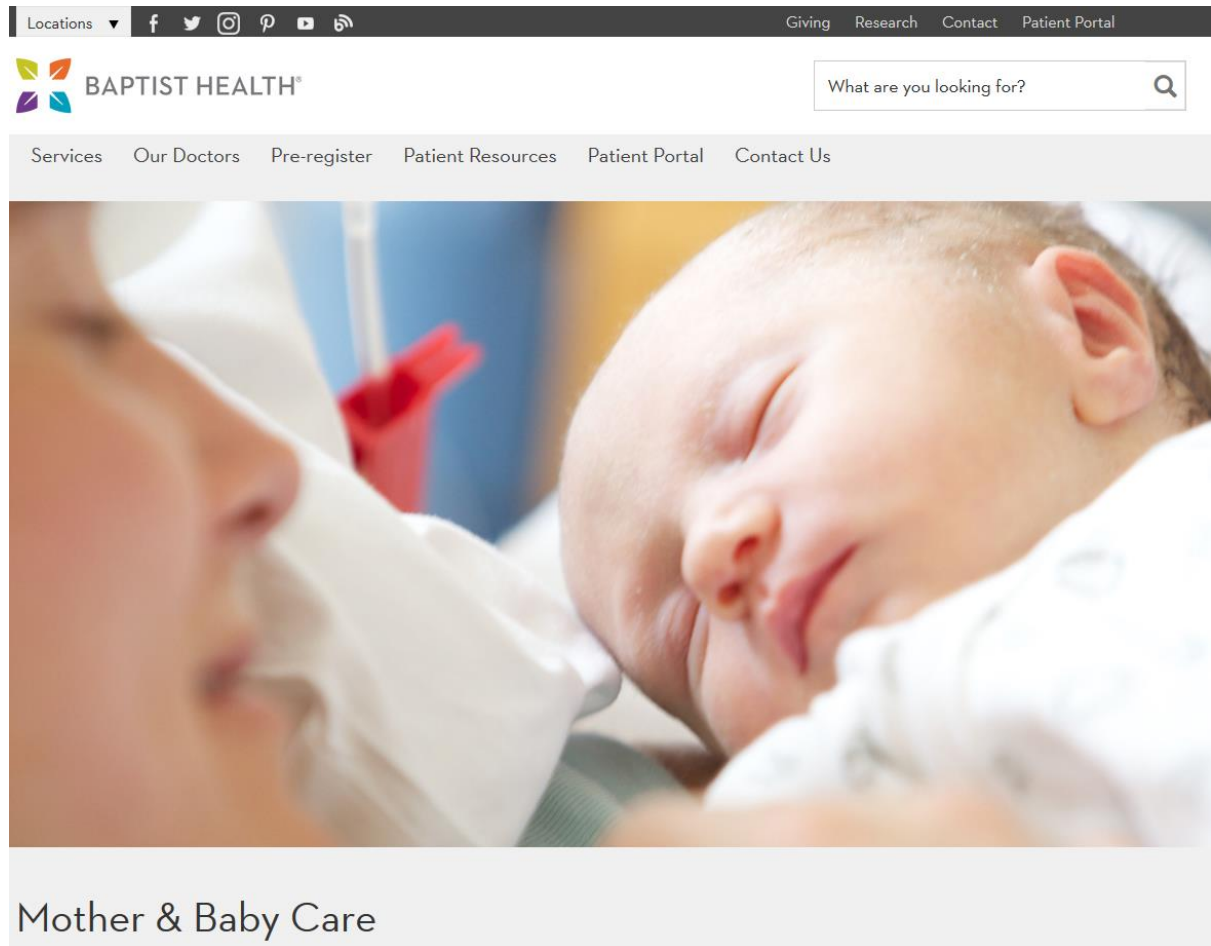


Figure 3.1: baptisthealth.com

motherandbaby.co.uk

Here you'll find all the latest expert advice covering every aspect of becoming a mum. We will guide you through each stage of pregnancy, prepare you for birth, get to grips with new motherhood and even take the tantrums out of toddlerhood.

That's why motherandbaby.co.uk brings you everything you need to know about sex and relationships, work and money, fashion, beauty and sleep, along with great health advice for the whole family.

And that's not all. Our new shopping section is packed with expert and mum-tested reviews, buyers guides and galleries of all the must-have products designed to make life as a mum that much easier.

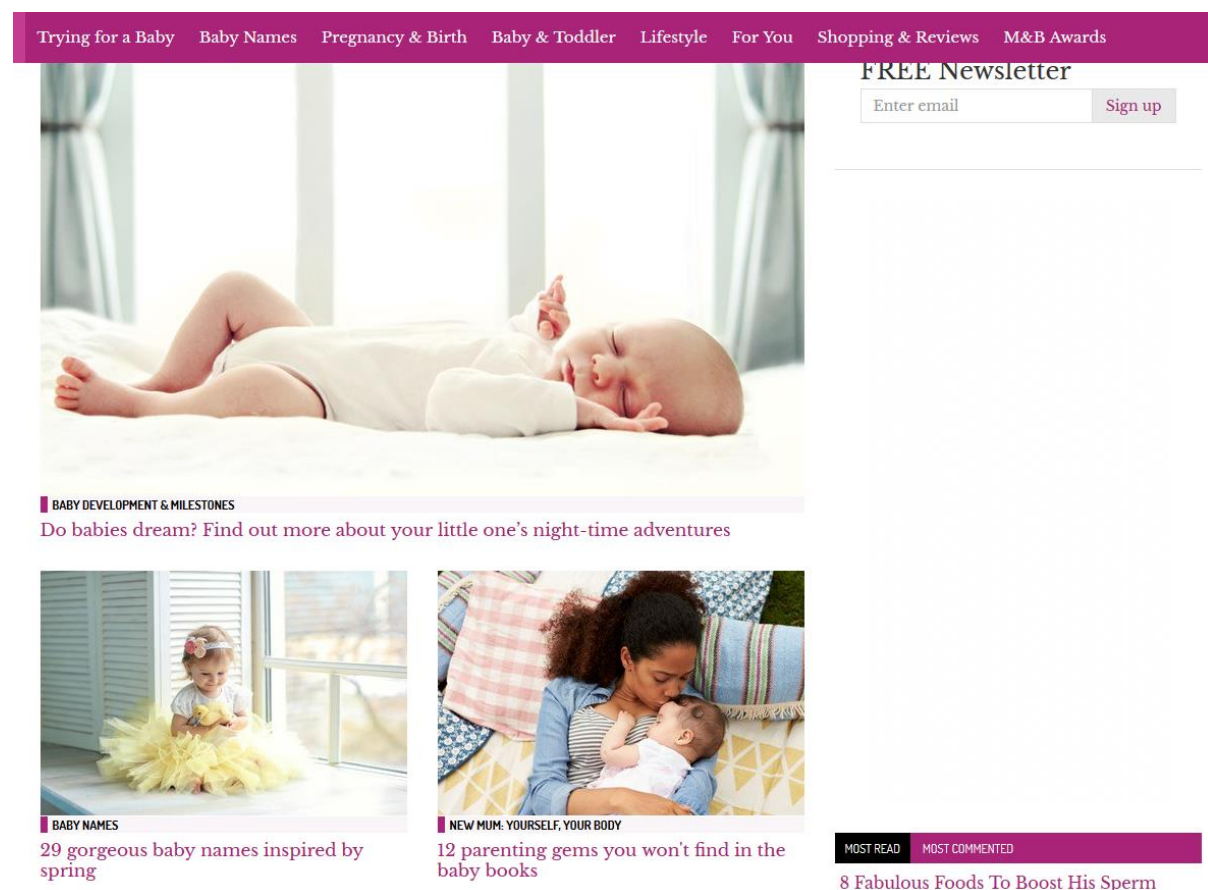


Figure 3.2: motherandbaby.co.uk

goodsam.org

Good Samaritan Hospital is a world-class academic medical center affiliated with USC School of Medicine. Good Samaritan Hospital supports six award-winning Centers of Excellence that focus on advancing the science of medicine while providing outstanding patient care with national and internationally renowned physicians. The centers include the Heart & Vascular Center, Comprehensive Orthopedic Center, Comprehensive Stroke Center, Tertiary Retinal Surgery, Pancreatic-Biliary Program, Transfusion-Free Medicine & Surgery Center, and the Davajan-Cabal Center for Perinatal Medicine.

Good Samaritan Hospital is expected to complete its new 193,000 square foot Medical Pavilion featuring the Frank R. Saver Ambulatory Surgery Center in 2018. The new medical pavilion will feature amenities such as a patient friendly lobby, radiation oncology, pharmacy, Women's Imaging, and Bistro Café on the first floor. The second floor will include 8 outpatient surgery suites and floors 3 to 7 will house ancillary services and physician offices. The Medical Pavilion will offer Los Angeles a leading-edge facility where physicians, patients and family members will feel comfortable in a space designed to enhance the efficiency and convenience of acquiring advanced medical care.

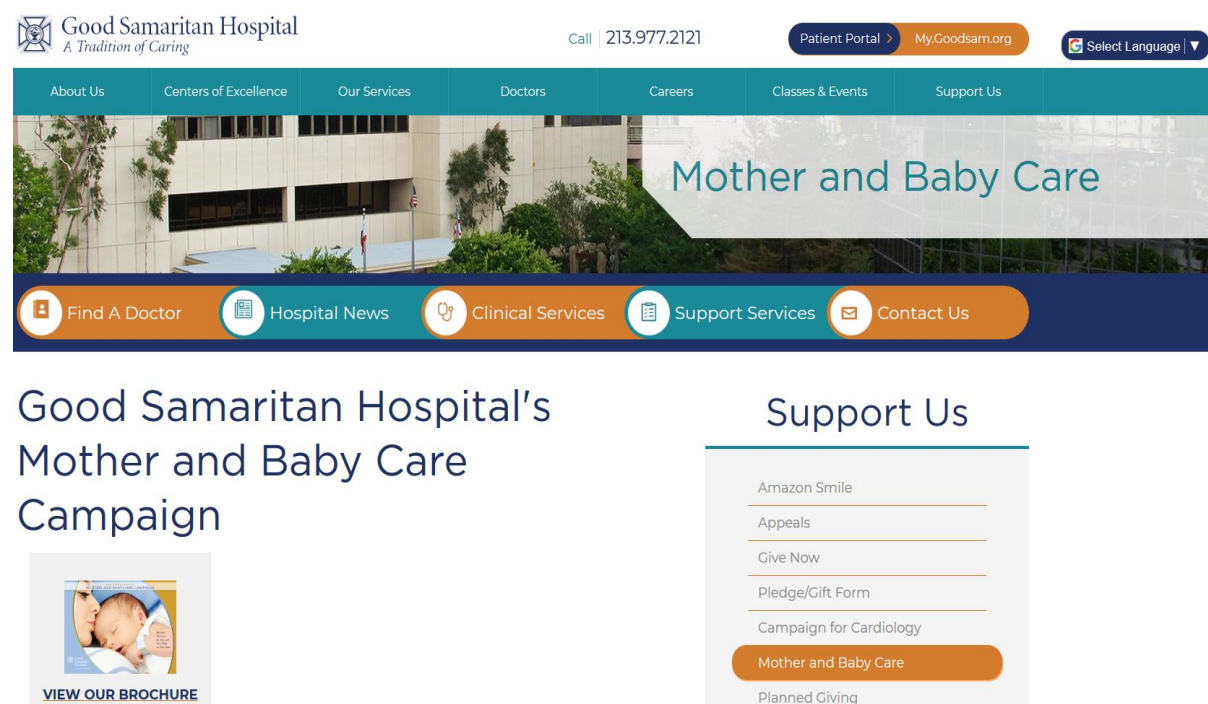


Figure 3.3: goodsam.org

2.3 Comparative Studies

Before developing the website, we study and analyze almost 10 mother's pregnancy and baby caring websites some of above we discuss about their future. As a result, we have got many ideas to study them. But our country is remarkably behind them to online mothers and baby caring website. So it is a great idea to implement online mothers pregnancy help and baby caring to spread out this system.

2.4 Scope of the Problem

As we mention previously that at present there is no automated system to women and baby caring system so we therefore concern that it is a huge scope to implement this system both in government and non-government organizations.

2.5 Challenges

All users must possess a minimum level of computer knowledge in order to function. Successfully is an online environment. One of the most challenging parts of this project is to understand the current manual system that is in practice at present women and baby caring website. In our knowledge, women faces many problem during their pregnancy period after birth the child they also concern about their baby's health condition so we illustrate vital information about the related and useful task during the pregnancy period and as well the baby carrying. However, and in spite of significant advances in science and technology, the implementation of global women and baby caring system coverage remains a pipe dream.. The other challenge is reliability of technology.

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Business Process Modeling

The Following figure 3.1 business process modeling (BPM) in systems engineering is the activity of representing processes of an enterprise, so that the current process may be analyzed or improved. BPM is typically performed by business analysts, who provide expertise in the modeling discipline; by subject matter experts, who have specialized knowledge of the processes being modeled; or more commonly by a team comprising both. Alternatively, the process model can be derived directly from events' logs using process mining tools.

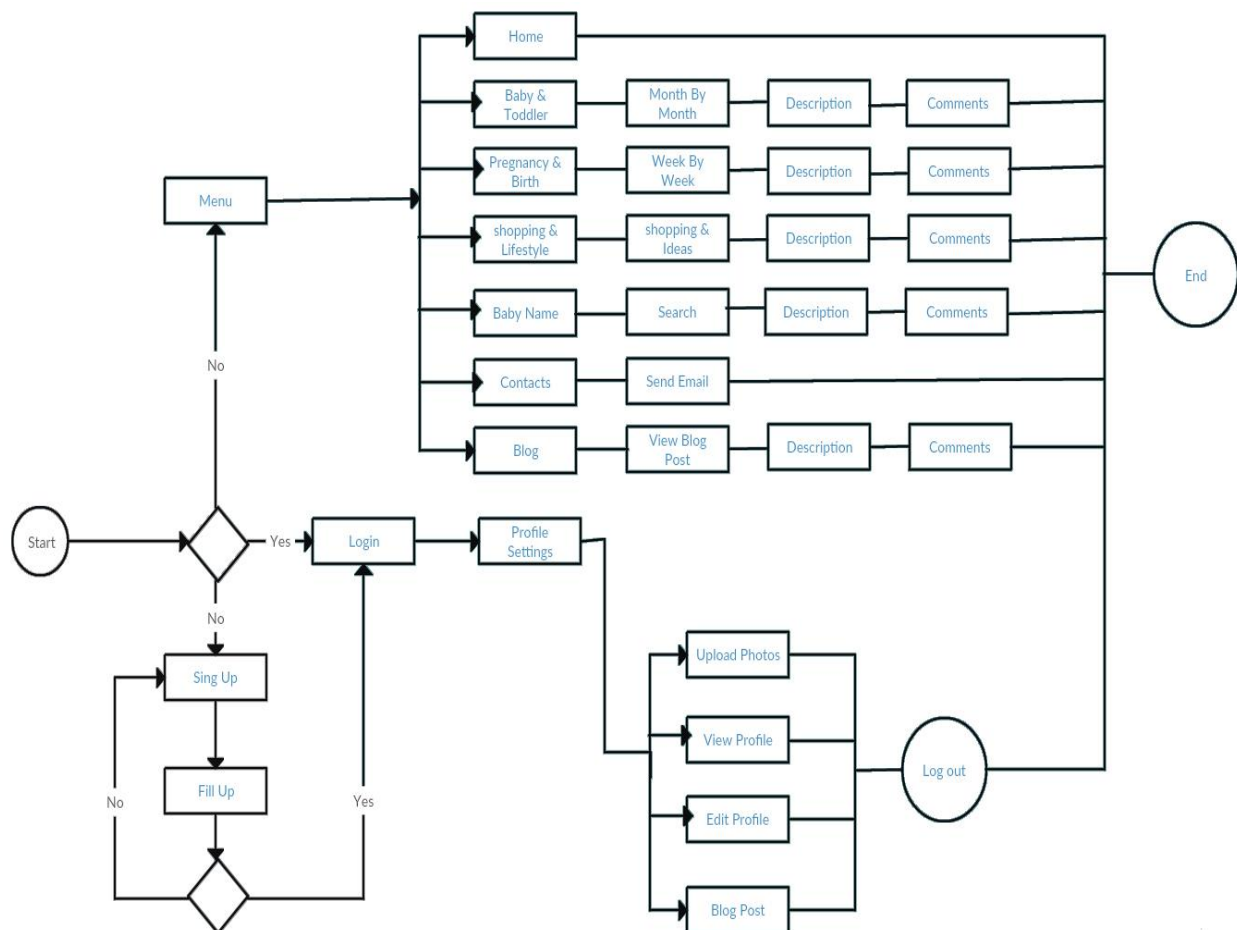


Figure 3.1: Business process modeling.

3.2 Requirement Collection and Analysis

Requirements analysis, also called requirements engineering, is the process of determining user expectations for a new or modified product. These features, called requirements, must be quantifiable, relevant and detailed. In software engineering, such requirements are often called functional specifications. Requirements analysis is an important aspect of project management [2].

3.3 Functional Requirements

Requirement collection and analysis is one of the primary conditions of application development. For deployment, there are two types of requirements, one is the functional requirement and the other is non-functional requirement. Functional requirements may be calculations, technical details, data manipulation and processing and other specific functionality that define what a system is supposed to accomplish. Behavioral requirements describing all the cases where the system uses the functional requirements are captured in use case [3].

Login and Registration

- Registration successfully
- Confirm by admin panel

Users Profile

- User Name
- Email Address
- User ID
- Add Post

3.4 Non-functional Requirement

Non-functional requirements are help to being more efficient; optimize performance, memory consuming, smoother operation, and load on quickly as possible to our application. Application UI should be user friendly and gorgeous for excellent user experience. The plan for implementing non-functional requirements is detailed in the system architecture, because they are usually Architecturally Significant Requirements [4].

3.5 Use Case Modeling and Description:

A Use Case Diagram sometimes called unified modeling language (UML) is a graphical representation of a system action and user's roles. It is a simple representation of a system's user interaction with the system. A use case shows the list of actions or events and role of users with these actions. In software and system engineering an actor can be a human other external system. There are several actions or events on the system and actors are related with these actions. In use case diagram an actor can play role with different actions and different users can play role with same actions. Actions are generally known as use case [5].

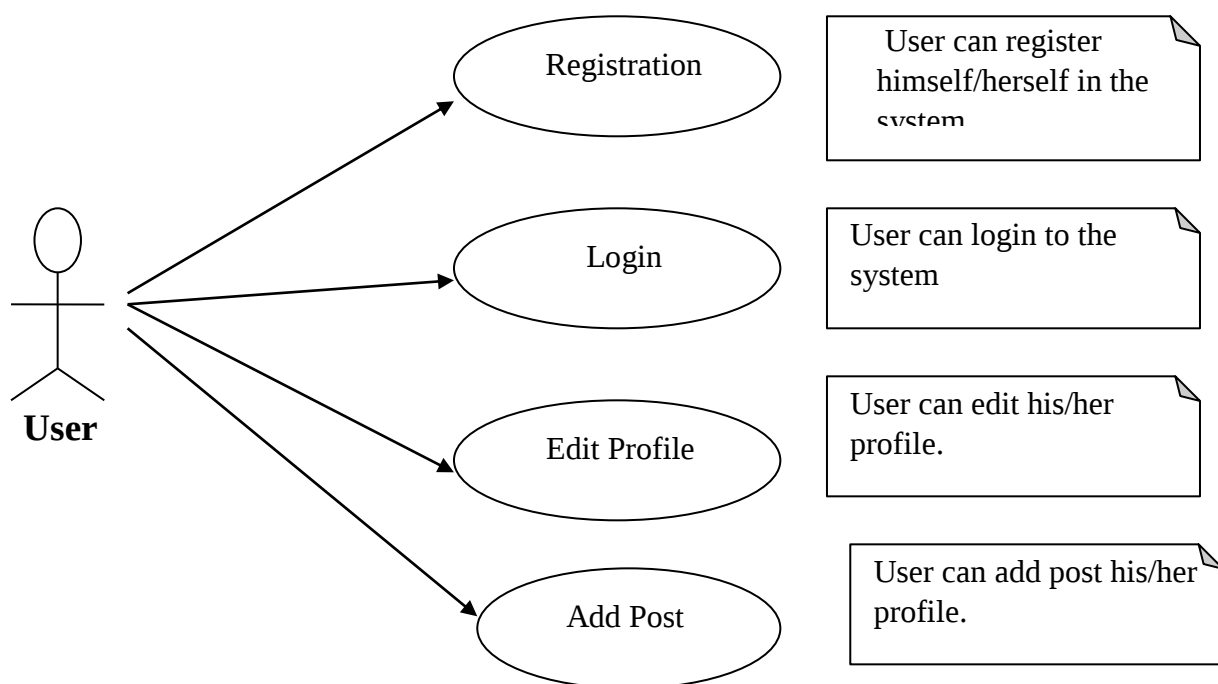


Figure 3.2: Use Case Diagram for User

Figure 3.2 is the describe user can register and they can login in this system, they also can check there profile and pregnancy information and finally logout this system.

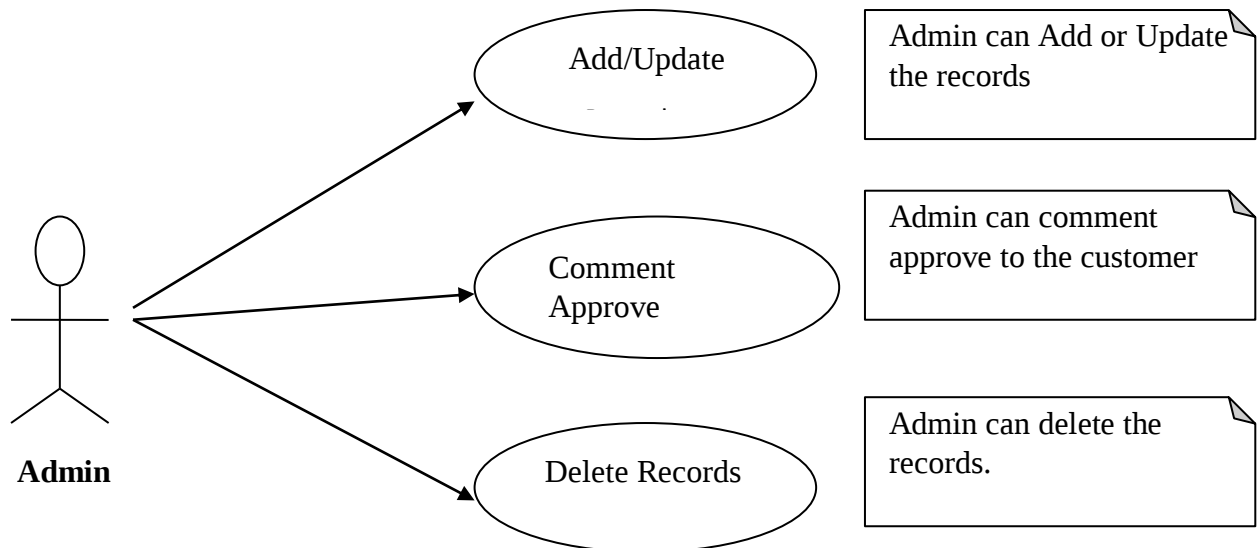


Figure: 3.3 Use case model for admin

Figure 3.3 describes how admin control our system like login user, check display information.

3.5.1 Use case description

A use case model is a business analysis presentation of the steps defining the interactions between a user (called an actor) and a system (usually a computer system). It details the interactions and sets the expectations of how the user will work within the system.

The use case model consists of two artifacts: the use case diagram, which is a graphical representation showing which actors can operate which use cases, and the use case description (sometimes called the use case narrative), which is the text-based, detailed, step-by-step interactions and dialogue between the actor and the system.

3.6 Logical Data Model

A data flow diagram (DFD) illustrate how data is processed by a system in terms of inputs and outputs. As its name indicates its focus is on the flow of information, where data comes from, where it goes and how it gets stored.

An entity-relationship diagram (ERD) is a graphical representation of an information system that shows the relationship between people, objective, places, concepts or events within that system. An ERD is a data modeling technique that can help define business processes and can be used as the foundation for a relational database. A complete diagram of the entities and relationship currently considered in the system given below [7].

An E-R diagram can express the overall logical structure of a database graphically. It also the express detail relationship between every user and admin panel of this system. Given below is the E-R diagram used in our project.

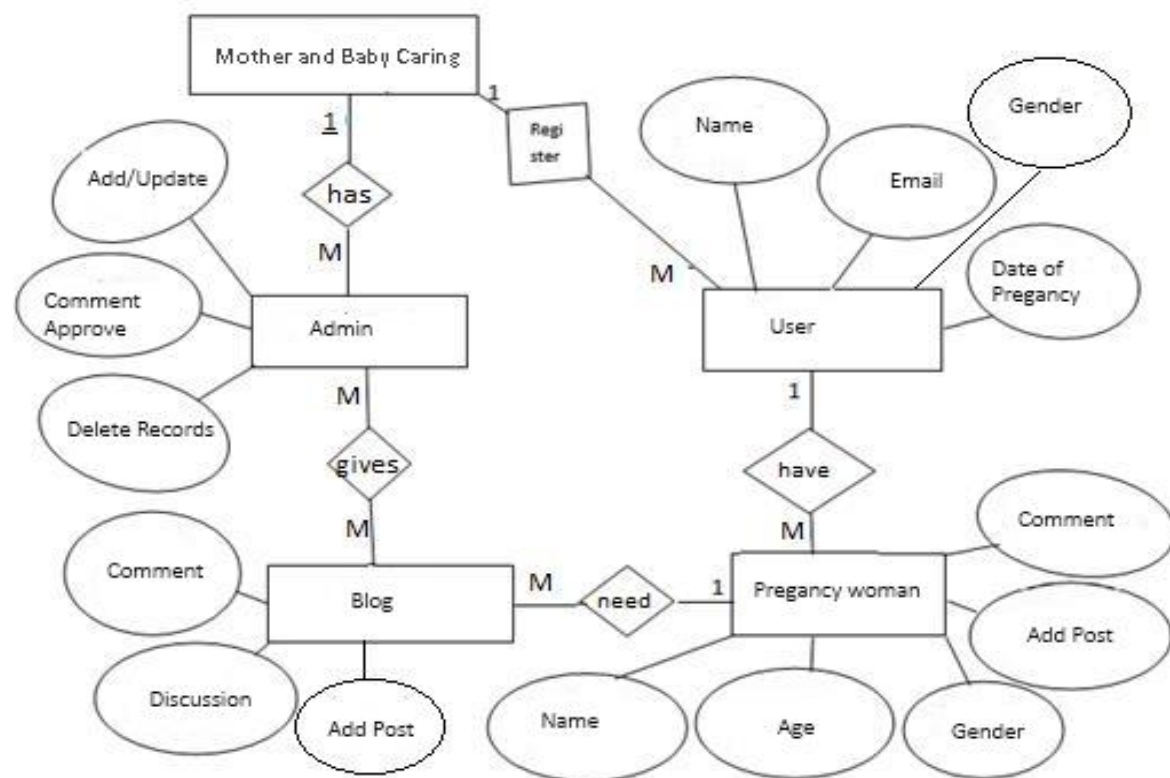


Figure 3.4: E-R Diagram of the Mother and baby carrying Project.

3.7 Class Diagram

In software engineering, a class diagram in the Unified Modeling Language (UML) is a type of static structure diagram that describes the structure of a system by showing the system's classes, their attributes, operations and the relationships among objects.

3.7.1 Class Diagram for Admin

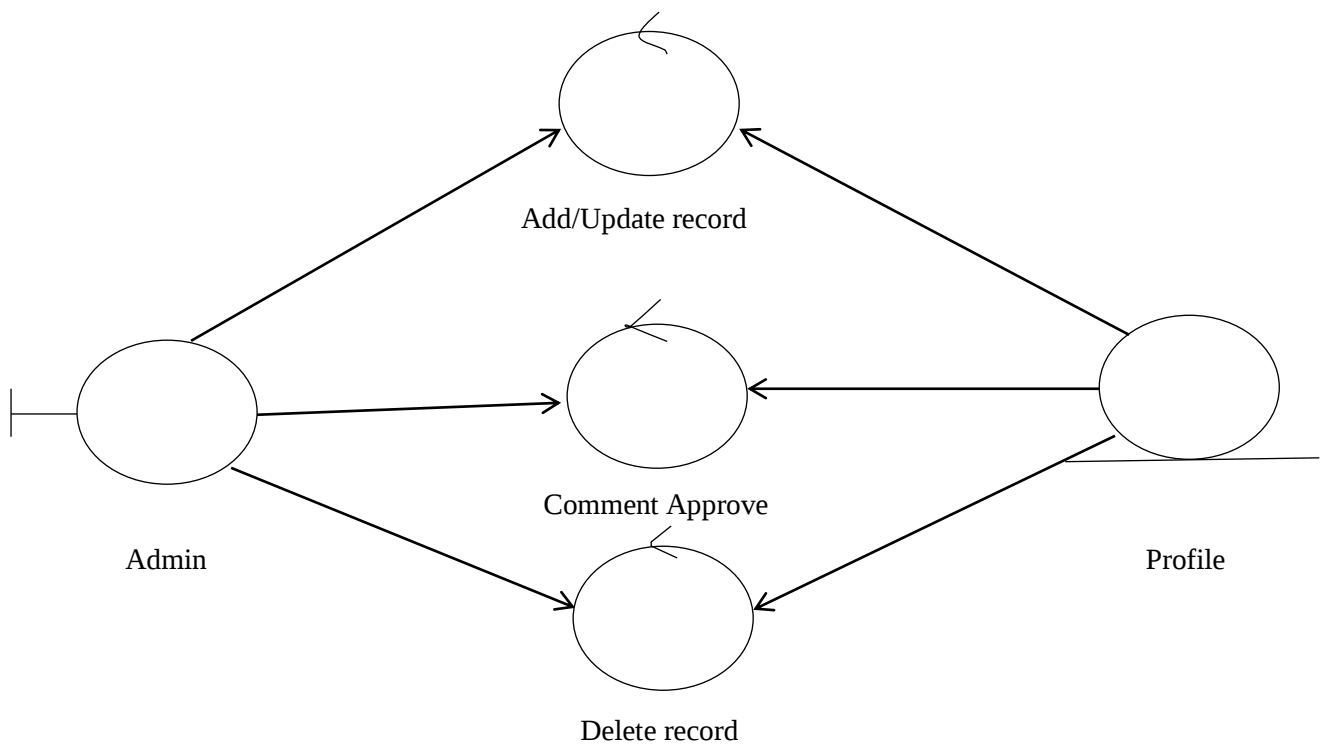


Figure: 3.5 Class Diagram for Admin

3.7.2 Class Diagram for User

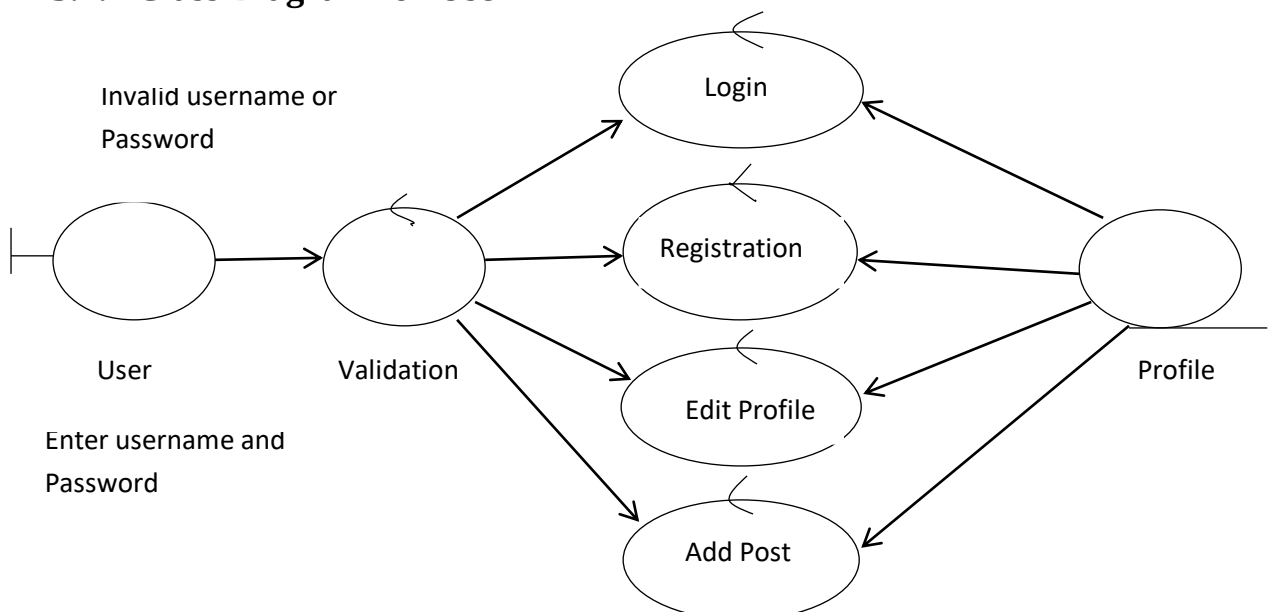


Figure: 3.6 Class Diagram for User

3.8 Design Requirements

Finding out requirements for designing the whole project is one of the most important tasks for completing the project. Other task of development is fully dependent on designing the system. It is a process which graphically represents how the system will be working. We have collected basic requirements from field level. Some are following:

- The system will use by two types of users; those are System Admin and User.
- System admin will setup basic settings of the system.
- Users update their information for women pregnancy information or baby health information.
- Several kinds of forms ensure their specific information.
- Admin panel facilities entry valid information and cut spam or irrelevant information.
- Blog for women pregnancy and baby's health to interact update information all over the world.
- User can comment and post their own choice which is published approve by the admin.

CHAPTER 4

DESIGN SPECIFICATION

4.1 Capabilities of this website

4.1.1 Admin Module

The main functions of admin of are as mentioned below.

- 1) Login
- 2) Report generation
 - Report of all members
 - Report of free members and paid members
 - User management
- 3) Logout

4.2 User Registration Module

In this module when user fill-ups first three registration form user will get a member id and will also get conformation message on his/her Email id.

After getting member id user will use his/her member id to login, and user can modify his/her profile, fill-up remaining form of registration, image upload, create album.

4.3 Image uploading module

User can change his/her photo, Image uploading is done after registration only, so user must have member id for image uploading.

4.1.8 Profile Management Module

After login user will be redirected to the page containing his information. User can edit, update and delete the profile if no longer he wants to retain it.

4.2 Front-end Design Specification

From the point of view of designing, Front-end is a most important section for the application development. It is worked on presentation layer and user can directly interact with this. It is very important to develop a simple and easily understanding front-end or GUI for the user of the application. So we tried to keep our design as simple as possible and easily accessible for the user, but the development task wasn't so easy.

- They will be two types of users those are System Admin and User.
- Every user will login using simple login form. Login field are email address and password.
- Will include forgot password option for recovery or generate new password.

4.3 Back-end Design Specification

Back-end means a section that is working behind the projects, but the user is unaware of or can't see this. Back-end technology usually consists of language like PHP, Ruby and Python etc. Actually frond-end design is only way to interact with the user but user can't watch and never visualized how to the system is working. Back-end does everything that happens on the server or behind the application. For web application, it is more difficult to handle back-end portion than an android application, because web application components are very big. That's why, we are don't develop anything that could be cause of pressurized on the device in the back-end portion.

- System admin will manage the software using default settings of the software.
- Site admin will add valid users and information.
- People update and post their story into the website blog.
- Sorted information into various category.
- Admin will manage the schedule and cut off irrelevant things.
- People use registration and login system for their security purpose.
- Admin mange and view the history of this site.
- People update their profile at any time and change new things.
- Up to date information always erase and new information updated dynamically.
- Nobody put slang or spam things into the website comment section.
- People search baby name if they need one.

4.4 Implementation Requirements

- The design needed to implement in web programming language PHP (Preferred framework).
- Preferred Database is MySQL-MariaDB (Engine: InnoDB).
- Hosting platform should be Linux based server.
- Schedule wise backup from server (Both source code and Database).
- Needed to show log in each user sensitive action.
- Failed log in needed to store in database.
- SQL injection needed to protect with string escaping.

4.5 Feasibility Study

Feasibility study is a process to check possibilities of system development. It is a method to check various different requirements and availability of financial & technical resources.

Before starting the process various parameters must be checked like:

- Estimated finance is there or not?
- The man power to operate the system is there or not?
- The man power is trained or not?

All the above conditions must be satisfied to start the project. This is why in depth analysis of feasibility is carried out.

There are three different ways feasibility can be tested

- 1) Economical Feasibility
- 2) Technical Feasibility
- 3) Operational Feasibility.

4.6 Economic Feasibility

In economic feasibility, analysis of the cost of the system is carried out. The system should be only developed if it is going to give returned the current manual system user can get the price only by purchasing the newspapers. In addition, if he/she wants to see archives of particular equity then he has to refer to all the old newspapers. For research reports he has to buy another magazine. So Instead of buying no of magazines user has to just go online and with a single click he can get whatever information he wants. So our project of online share news passes the test of economic feasibility.

4.7 Technical Feasibility

It is basically used to see existing computer, hardware and software etc. Weather it is sufficient or additional equipment are required? Minimum System Requirement is such that it can be affordable by of the user who is having computer. All the user requires is compatible browser and .net framework installed so our system is fully technical feasible.

4.8 Operational Feasibility

Once the system is designed there must be trained and expert operator. If there are not trained they should give training according to the needs of the system.

From the user's perspective our system fully operational feasible as it just requires some knowledge of computer. Operators only need add daily prices of various equities and there are enough validations available so operator does not require any special technical knowledge. So our system also passes the test of operational feasibility

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database:

A database collects and stores data in such organized way that data requirements are satisfied by the database. The general objective is to make information access easy, quick, inexpensive and flexible for the user.

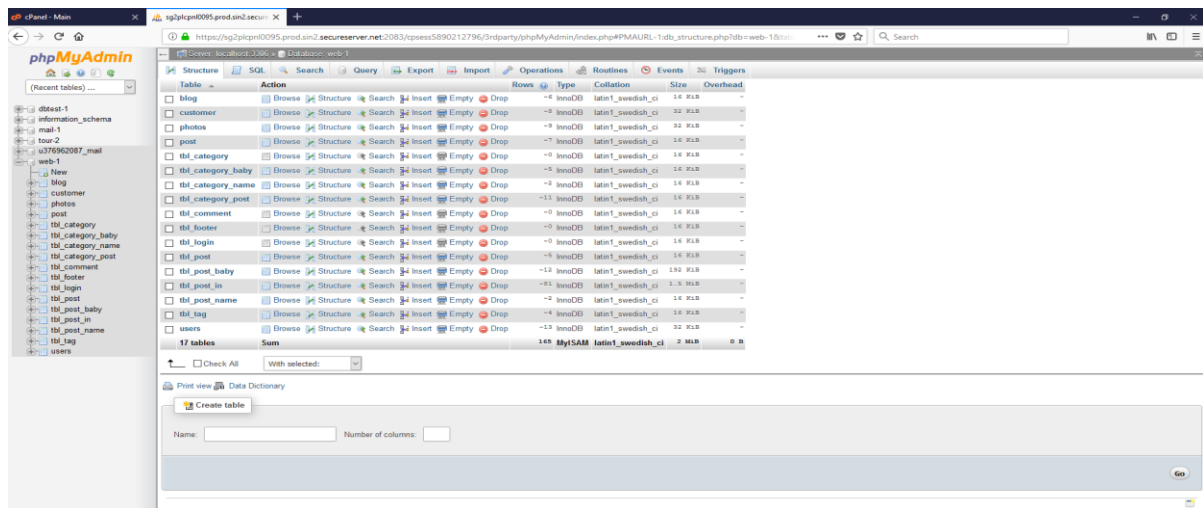
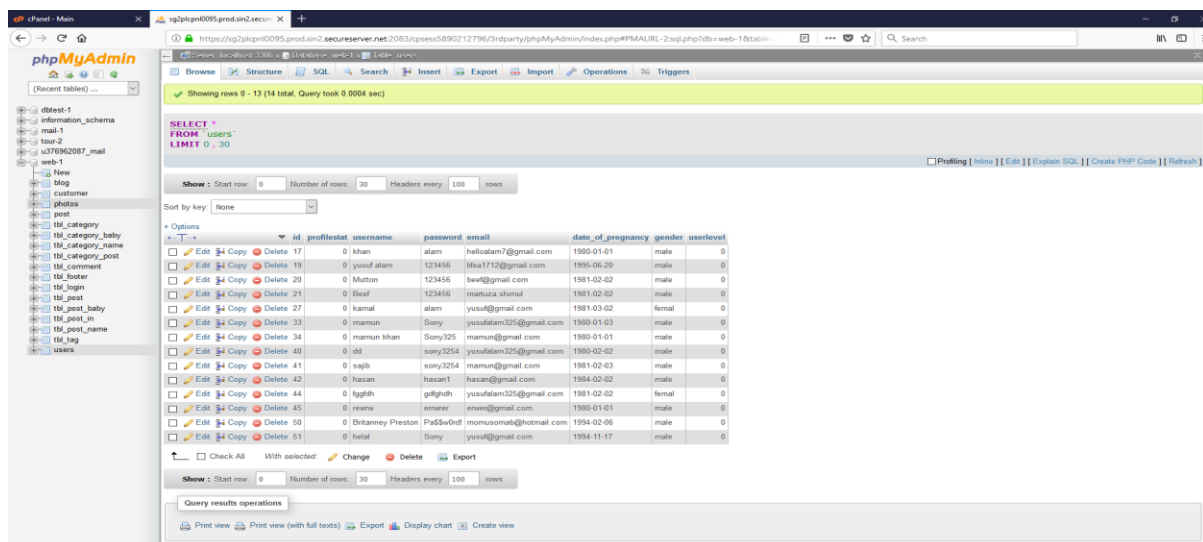


Table	Action	Rows	Type	Collation	Size	Overhead
blog	Browse Structure Search Insert Empty Drop	1	InnoDB	latin1_swedish_ci	1.0 K.B	-
customer	Browse Structure Search Insert Empty Drop	5	InnoDB	latin1_swedish_ci	32 K.B	-
photos	Browse Structure Search Insert Empty Drop	9	InnoDB	latin1_swedish_ci	32 K.B	-
post	Browse Structure Search Insert Empty Drop	7	InnoDB	latin1_swedish_ci	1.0 K.B	-
tbl_category	Browse Structure Search Insert Empty Drop	5	InnoDB	latin1_swedish_ci	1.0 K.B	-
tbl_category_baby	Browse Structure Search Insert Empty Drop	5	InnoDB	latin1_swedish_ci	1.0 K.B	-
tbl_category_name	Browse Structure Search Insert Empty Drop	5	InnoDB	latin1_swedish_ci	1.0 K.B	-
tbl_category_post	Browse Structure Search Insert Empty Drop	11	InnoDB	latin1_swedish_ci	1.0 K.B	-
tbl_comment	Browse Structure Search Insert Empty Drop	9	InnoDB	latin1_swedish_ci	1.0 K.B	-
tbl_footer	Browse Structure Search Insert Empty Drop	9	InnoDB	latin1_swedish_ci	1.0 K.B	-
tbl_login	Browse Structure Search Insert Empty Drop	9	InnoDB	latin1_swedish_ci	1.0 K.B	-
tbl_post	Browse Structure Search Insert Empty Drop	15	InnoDB	latin1_swedish_ci	1.0 K.B	-
tbl_post_baby	Browse Structure Search Insert Empty Drop	13	InnoDB	latin1_swedish_ci	1.0 K.B	-
tbl_post_in	Browse Structure Search Insert Empty Drop	11	InnoDB	latin1_swedish_ci	1.0 K.B	-
tbl_post_name	Browse Structure Search Insert Empty Drop	2	InnoDB	latin1_swedish_ci	1.0 K.B	-
tbl_tag	Browse Structure Search Insert Empty Drop	4	InnoDB	latin1_swedish_ci	1.0 K.B	-
users	Browse Structure Search Insert Empty Drop	13	InnoDB	latin1_swedish_ci	32 K.B	-
Sum		147			MyISAM latin1_swedish_ci	2 K.B

Figure 5.1: All Tables of the Project

Figure 5.1 shows all the tables of our project. There are seven tables in this project. If any admin visit the database he can see a user file which is shown in figure 5.2.



id	profilestat	username	password	email	date_of_pregnancy	gender	userlevel
17	0	khan	alam	helloalam7@gmail.com	1980-01-01	male	0
19	0	yusuf alam	123456	lksa1712@gmail.com	1995-06-20	male	0
20	0	Mutton	123456	beef@gmail.com	1981-02-02	male	0
21	0	Beef	123456	martuza shimul	1981-02-02	male	0
27	0	kamal	alam	yusuf@gmail.com	1981-03-02	female	0
33	0	mamun	Sony	yusufalam325@gmail.com	1980-01-03	male	0
34	0	mamun khan	Sony325	mamun@gmail.com	1980-01-01	male	0
40	0	del	sony3254	yusufalam325@gmail.com	1980-02-02	male	0
41	0	iqbal	sony3254	mamun@gmail.com	1981-02-03	male	0
42	0	hasan	hasan1	hasan@gmail.com	1984-02-02	male	0
44	0	lgfgh	gdfgh	yusufalam325@gmail.com	1981-02-02	female	0
45	0	erwer	erwer	erwer@gmail.com	1980-01-01	male	0
50	0	Brittany Preston	Pa\$5wOrd	momusomab@hotmail.com	1994-02-06	male	0
51	0	helal	Sony	yusuf@gmail.com	1994-11-17	male	0

Figure 5.2: User Information Table

The screenshot shows the phpMyAdmin interface with the 'tbl_login' table selected. The table structure is as follows:

Field	Type	Length	Charset	Collate	Index
id	int(11)	11	utf8	utf8_general_ci	PRIMARY
username	varchar(50)	50	utf8	utf8_general_ci	
password	varchar(50)	50	utf8	utf8_general_ci	

The data view shows one row:

id	username	password
1	admin	21232097a57a5a743894a0e4a8016c3

Figure 5.3: Admin Panel Table

Figure 5.3 is the system “admin panel table”. Admin visit the site and can see all admin information.

The screenshot shows the phpMyAdmin interface with the 'tbl_post_baby' table selected. The table structure is as follows:

Field	Type	Length	Charset	Collate	Index
post_id	int(11)	11	utf8	utf8_general_ci	PRIMARY
post_title	varchar(255)	255	utf8	utf8_general_ci	
post_description	text		utf8	utf8_general_ci	
post_image	varchar(255)	255	utf8	utf8_general_ci	
cat_id	int(11)	11	utf8	utf8_general_ci	

The data view shows 13 rows of baby development posts:

post_id	post_title	post_description	post_image	cat_id
1	12 Week Old Baby Development	<h2>What can you expect when your baby is 12 weeks	1.jpg	1
2	11 Week Old Baby Development	<h2>What can you expect when your baby is 11 weeks	2.jpg	1
3	10 Week Old Baby Development	<h2>What can you expect when your baby is ten week	3.jpg	1
4	9 Week Old Baby Development	<h2>What can you expect when your baby is nine wee	4.jpg	1
5	8 Week Old Baby Development	<h2>What can you expect when your baby is eight we...	5.jpg	1
6	7 Week Old Baby Development	<h2>What can you expect when your baby is seven we	6.jpg	1
7	6 Week Old Baby Development	<h2>What can you expect when your baby is six week	7.jpg	1
8	5 Week Old Baby Development	<h2>What can you expect when your baby is five wee	8.jpg	1
9	4 Week Old Baby Development	<h2>What can you expect when your baby is four wee	9.jpg	1
10	3 Week Old Baby Development	<h2>What can you expect when your baby is three wo...	10.jpg	1
11	2 Week Old Baby Development	<h2>What can you expect when your baby is two week	11.jpg	1
12	1 Week Old Baby Development	<h2>What can you expect in your baby's first w	12.jpg	1
13	Toddler toothbrushing - how to prevent tantrums	<p>A new report by Aquafresh has revealed 80 per c...	13.jpg	3

Figure 5.4: Post Baby Table

Figure 5.4 is the “post baby table page”. Admin visit the site and can see all post baby information.

post_id	post_title	post_description	post_image	cat_id
89	42 Weeks Pregnant &C What to expect	<p>This is it! If you haven" given birth yet...	0.jpg	1
90	41 Weeks Pregnant &C What to expect	<p>This week, will your baby finally make her appe...	1.jpg	1
91	40 Weeks Pregnant &C What to expect	<p>This week, you"re getting so close to the...	2.jpg	1
92	39 Weeks Pregnant &C What to expect	<p>This week may well be your last week of pregnan...	3.jpg	1
93	38 Weeks Pregnant &C What to expect	<p>This week, you just can" stop peeing, yo...	4.jpg	1
94	37 Weeks Pregnant &C What to expect	<p>This week, you"re getting closer than eve...	5.jpg	1
95	36 Weeks Pregnant - What to expect	<p>At 36 weeks pregnant, your baby"s already...	6.jpg	1
96	35 Weeks Pregnant &C What You Need to Know	<p>It"s nearly time! Now you"re reachi...	7.jpg	1
97	34 Weeks Pregnant &C What to expect	<p>This week, there"s plenty of exciting thi...	8.jpg	1
98	33 Weeks Pregnant &C What to expect	<p>This week, your baby"s bones are hardenin...	9.jpg	1
99	32 Weeks Pregnant - What to expect	<p>This week, your baby"s putting on weight...	10.jpg	1
100	31 Weeks Pregnant &C What to expect	<p>This week, your bump is visibly moving and you...	11.jpg	1
101	30 Weeks Pregnant &C What to expect	<p>This week, your baby"s more proportional...	12.jpg	1
102	29 Weeks Pregnant &C What to expect	<p>This week, your baby"s getting wiggly an...	13.jpg	1
103	28 Weeks Pregnant &C What to expect	<p>This week, you can start building a bond with y...	14.jpg	1
104	27 weeks pregnant &C what to expect	<p>This week, your baby"s eyes are changing	15.jpg	1
105	26 weeks pregnant - what to expect	<p>This week, your baby"s hearing improves, ...	16.jpg	1
106	25 weeks pregnant - what to expect	<p>This week, some sleepless nights are in store a...	17.jpg	1
107	24 weeks pregnant - what to expect	<p>This week, your baby"s little face is alm...	18.jpg	1
108	23 weeks pregnant - what to expect	<p>This week, your baby is starting to gain lots o...	19.jpg	1
109	22 weeks pregnant - what to expect	<p>This week, your baby looks more like a newborn...	20.jpg	1
110	21 weeks pregnant - what to expect	<p>This week, your baby"s growing, your skin...	21.jpg	1

Figure 5.5: Pregnancy Table

Figure 5.5 is the “Pregnancy table page”. Admin visit the site and can see Pregnancy information.

id	cust_id	email	age	sex	religion	district	state	country	first_name	last_name	blood_group	date_of_pregnancy	abosome	profilecreationdate
118	6	yusuf4062@du.edu.bd	24	Male	Muslim	Triandrum	Tamradu	India	khan	alam	O +ve	1995-06-20	Lorem ipsum dolor sit amet, consectetur adipiscing.	2017-07-27
119	18	best@gmail.com	2	Male	Muslim	Triandrum	Kerala	China	yusuf	khan	O +ve	1989-02-03		2017-07-28
120	20	lisa1712@gmail.com	3	Female	Christian	Pathanarththa	Karnataka	China	hello	khan	AB +ve	1981-02-02		2017-08-03
121	27	yusufalam325@gmail.com	11	Male	Muslim	Chandpur	Chittagong	Bangladesh	mamun	khan	AB +ve	1983-02-06		2017-10-23
122	29		3	Male	Muslim	Bhola	Barisal	India	mamun	khan	AB +ve	1981-02-03		2017-10-23
123	40	yusufalam325@gmail.com	18	Male	Hindu	Chandpur	Chittagong	Bangladesh	mamun	alam	O +ve	1980-01-01		2017-12-12
124	17	yusufalam325@gmail.com	24	Male	Muslim	Chandpur	Chittagong	Bangladesh	Yusuf	Alam	AB +ve	2006-01-18		2018-02-25
125	41	mamun@gmail.com	18	Male	Muslim	Bandarban	Chittagong	Bangladesh	sayb	Alam	O +ve	1998-01-17		2018-02-25

Figure 5.6: Edit profile Table

Figure 5.6 is the “Edit profile table page”. Admin visit the site and can see Edit profile information.

5.1.1 Database Design

A database model is a sort of information model which can decide the sensible structure of a database.

In Figure 5.7 the database model of the system, has been described in the bellow,

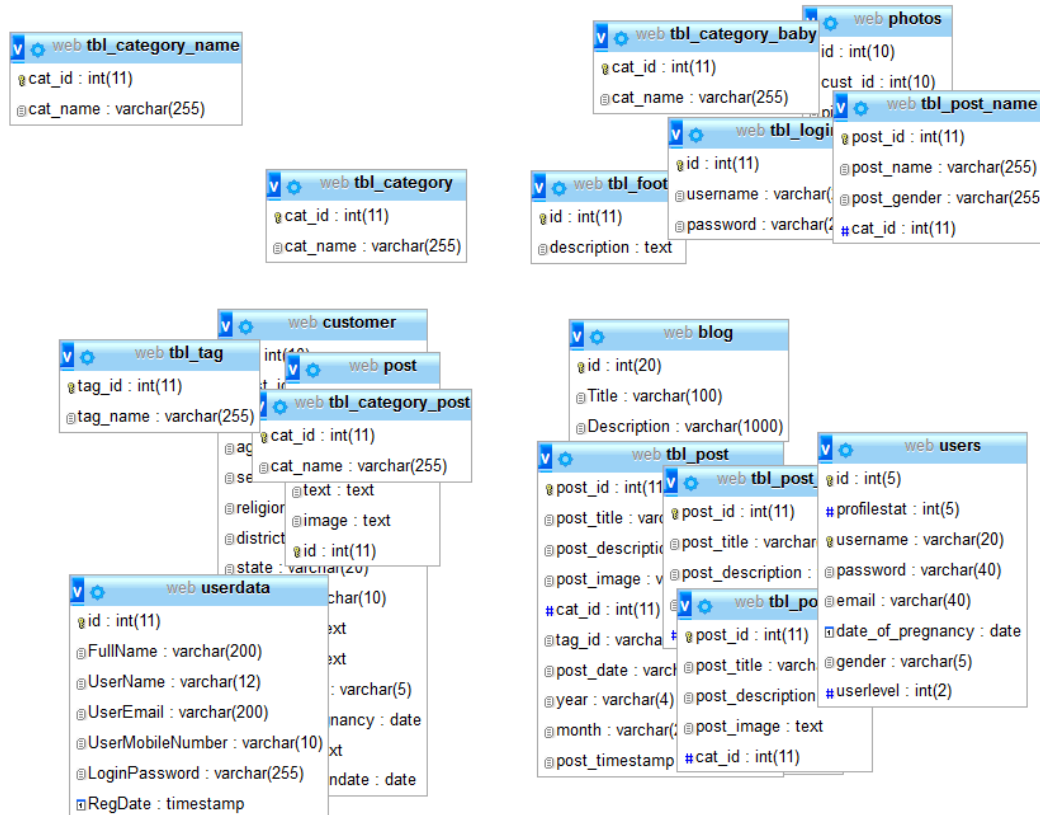


Figure 5.7 Database Design

5.1.2 Implementation Tools and Software

The following software's and tools were selected and used while erecting the system.

- ❖ MySQL
- ❖ APACHE
- ❖ XAMPP

5.1.3 MySQL

This section provides an introduction to the options available to you when developing a PHP application that needs to interact with a MySQL database.

An Application Programming Interface, or API, defines the classes, methods, functions and variables that your application will need to call in order to carry out its desired task. In the case of PHP applications that need to communicate with databases the necessary APIs are usually exposed via PHP extensions.

5.1.4 Apache

The Apache HTTP Server, colloquially called Apache is free and open-source cross-platform web server software, released under the terms of Apache License 2.0. Apache is developed and maintained by an open community of developers under the auspices of the Apache Software Foundation.

5.1.5 Xampp

XAMPP is a free and open source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, Maria DB database, and interpreters for scripts written in the PHP and Perl programming languages. XAMPP stands for Cross-Platform (X), Apache (A), Maria DB (M), PHP (P) and Perl (P). It is a simple, lightweight Apache distribution that makes it extremely easy for developers to create a local web server for testing and deployment purposes. Everything needed to set up a web server – server application (Apache), database (Maria DB), and scripting language (PHP) – is included in an extractable file. XAMPP is also cross-platform, which means it works equally well on Linux, Mac and Windows. Since most actual web server deployments use the same components as XAMPP, it makes transitioning from a local test server to a live server extremely easy as well.

5.1.6 Security

Security is the most important part of this system. Applying the proper security in this system, the system can be protected from hacking or stealing data of the system. To building a high secure website, proper validation is must needed. This system is built using both client side and server side validation. But to build a high class website, using the security protocols is must needed. So we can propose about lot of security protocols which can be used in the system to make it more secure.

5.2 Security Algorithm

If it is considered to establish high level security, then must be used security algorithm. Such that AES (Advanced Encryption Security), DES (Data Encrypt Security), 3DES (Triple Data Encrypt Security) etc.

5.2.1 Back Up

Backup system is very important for security purpose. Here can be backup system so that in case system is hacked or corrupted then this application can be resolved by using backup or corrupted then this website can be resolved by using backup system.

5.3 Implementation of Front-end Design

From the beginning of the point of view of designing, Front-end is a most important section for the website development. It is worked on presentation layer and user can directly interact with this. It is very important to develop a simple and easily understanding front-end or GUI for the user of the application as well as website front page. So we tried to keep our design as interactive as possible and easily accessible for the user, but the development task wasn't so easy. We attach our application front-end design in bellow:

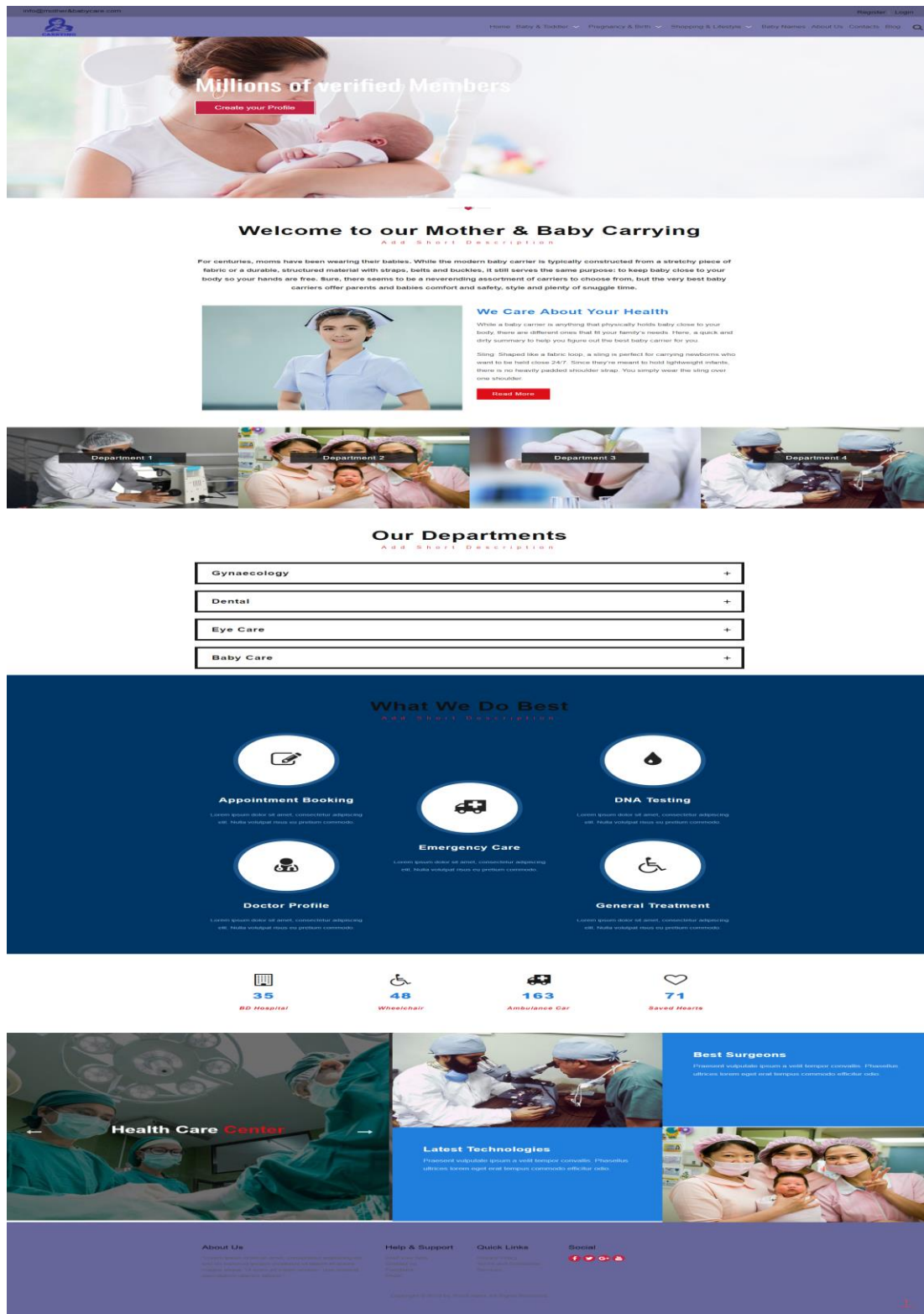
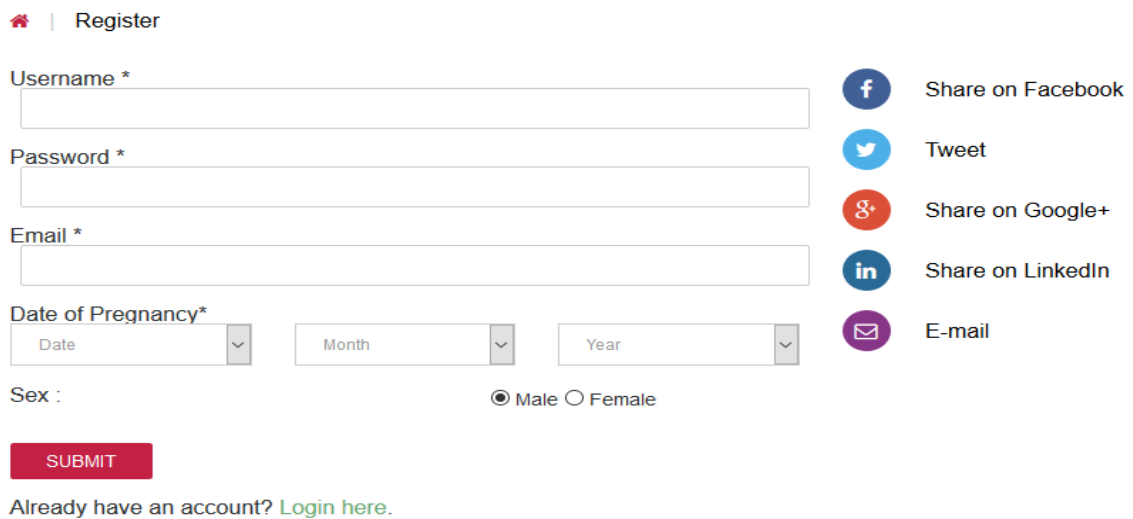


Figure 5.8 Home page of the Project

Figure 5.8 is the system “Home Page”. Users visit the site and can see all information about our site.



🏠 | Register

Username *

Password *

Email *

Date of Pregnancy*

Date Month Year

Sex : ☒ Male ☐ Female

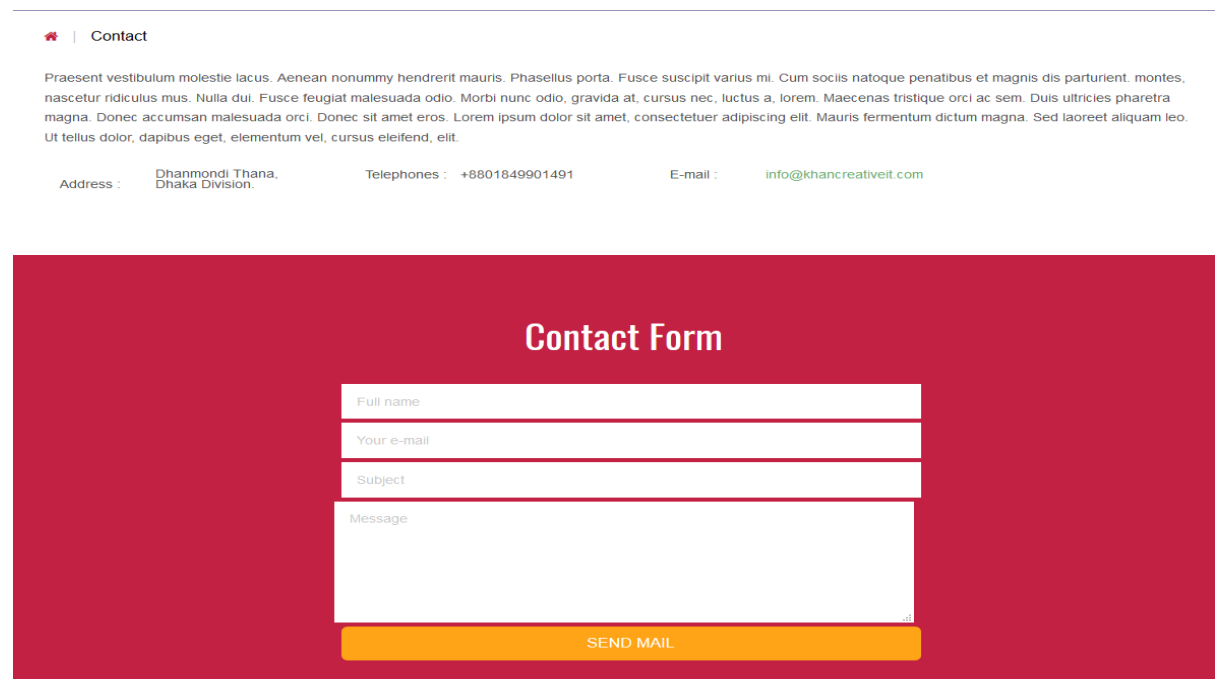
SUBMIT

Already have an account? [Login here.](#)

 Share on Facebook
 Tweet
 Share on Google+
 Share on LinkedIn
 E-mail

Figure 5.9: Registration Page of the Project

Above mentioned figure is the system “Registration Page”. Users visit the site and registration easily.



🏠 | Contact

Praesent vestibulum molestie lacus. Aenean nonummy hendrerit mauris. Phasellus porta. Fusce suscipit varius mi. Cum sociis natoque penatibus et magnis dis parturient, montes, nascetur ridiculus mus. Nulla dui. Fusce feugiat malesuada odio. Morbi nunc odio, gravida at, cursus nec, luctus a, lorem. Maecenas tristique orci ac sem. Duis ultricies pharetra magna. Donec accumsan malesuada orci. Donec sit amet eros. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Mauris fermentum dictum magna. Sed laoreet aliquam leo. Ut tellus dolor, dapibus eget, elementum vel, cursus eleifend, elit.

Address : Dhanmondi Thana, Dhaka Division. Telephones : +8801849901491 E-mail : info@khancreativeit.com

Contact Form

Full name

Your e-mail

Subject

Message

SEND MAIL

Figure 5.10: Contact Us Page of the Project

Figure 5.10 is the system “contact us Page”. Users contact into admin with helping this vaccination or health tips.

 | Login

Username *

Password *

[LOG IN](#)

Don't have an account? [Sign up now.](#)

[Lost your Password ?](#)


Share on Facebook


Tweet


Share on Google+


Share on LinkedIn


E-mail

Figure 5.11: User Login Page of the Project

This figure is the system “user login page”. Users sign in & sign out for this page.

 | View Profile

Hi, khan. Welcome to our profile.

[Upload Photos](#)
[View Profile](#)
[Edit Profile](#)
[Add Blog Post](#)

Profile Id : 17



Name :
Age :
Religion :
Date Of Pregnancy :
Blood_Group :
Sex :
Country :
State :
District :

Yusuf Alam
24
Muslim
2006-01-18
AB +V
Male
Bangladesh
Chittagong
Chandpur

View Recent Profiles


khan alam
24Yrs,Muslim
[View Full Profile](#)


yusuf khan
2Yrs,Muslim
[View Full Profile](#)


hello khan
3Yrs,Christian
[View Full Profile](#)


mamun khan
11Yrs,Muslim
[View Full Profile](#)


mamun khan
3Yrs,Muslim
[View Full Profile](#)


mamun alam
18Yrs,Hindu
[View Full Profile](#)

Figure 5.12: User Profile Page of the Project

This figure is the system “User profile page”. Users sign in & show the information in this page.

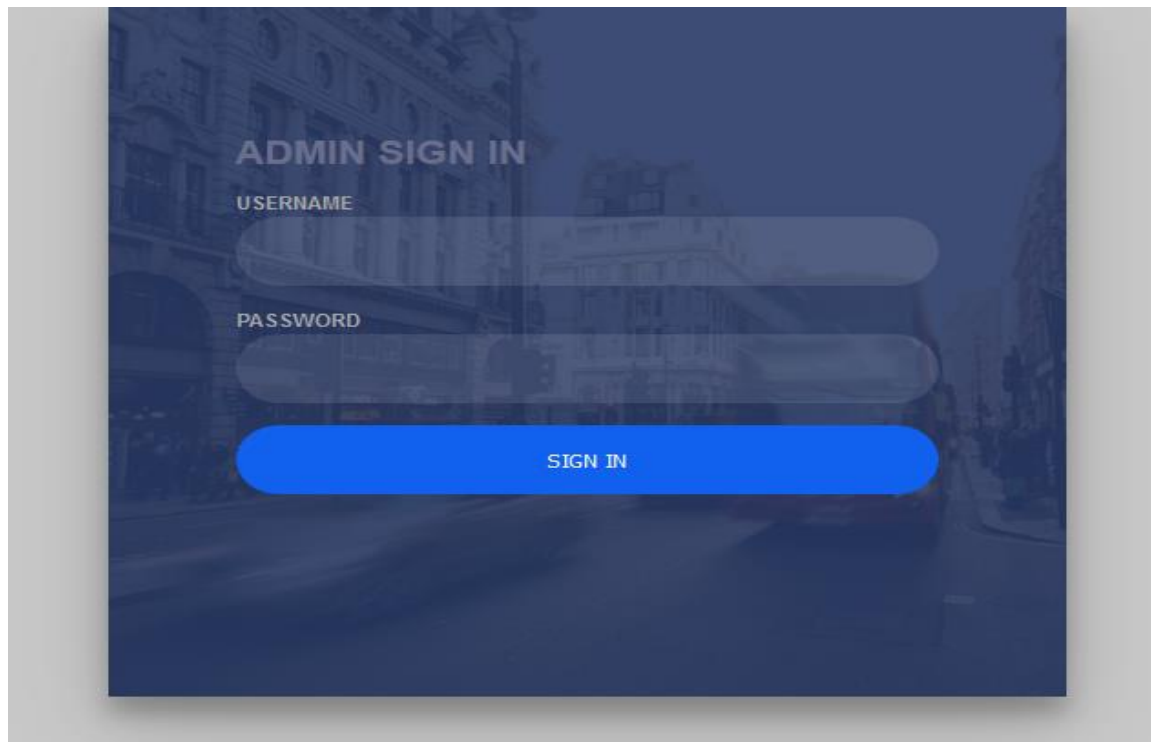


Figure 5.13: Admin Login Page of the Project

The figure shown above is the system “admin login page”. Admin login the page and control the admin panel.

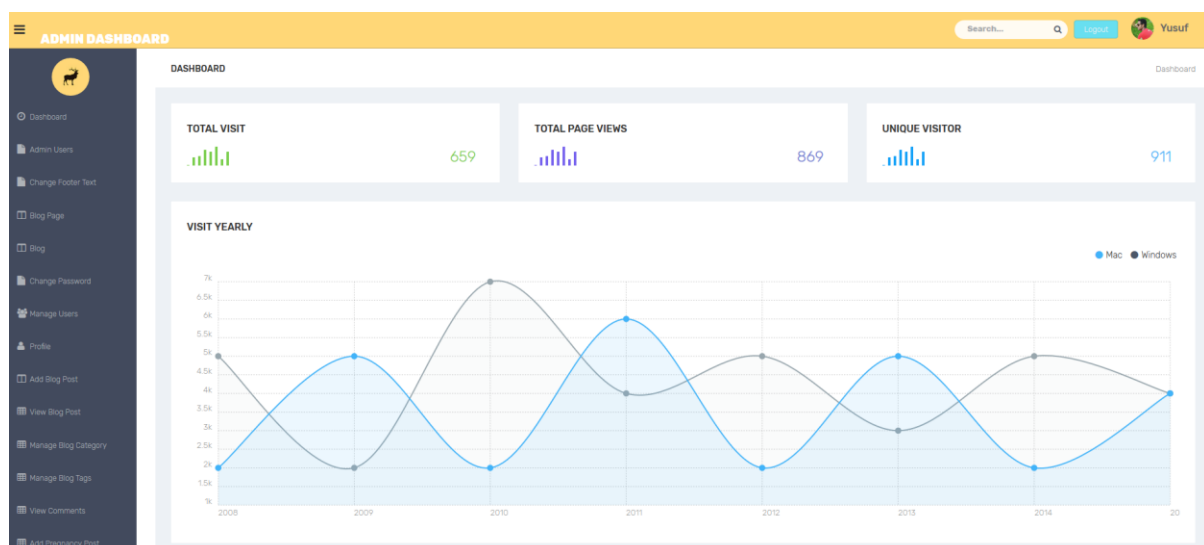


Figure 5.14: Mother and baby carrying Admin Page of the Project

Above mentioned figure is the system “Mother and baby carrying admin”. Admin control the admin panel.

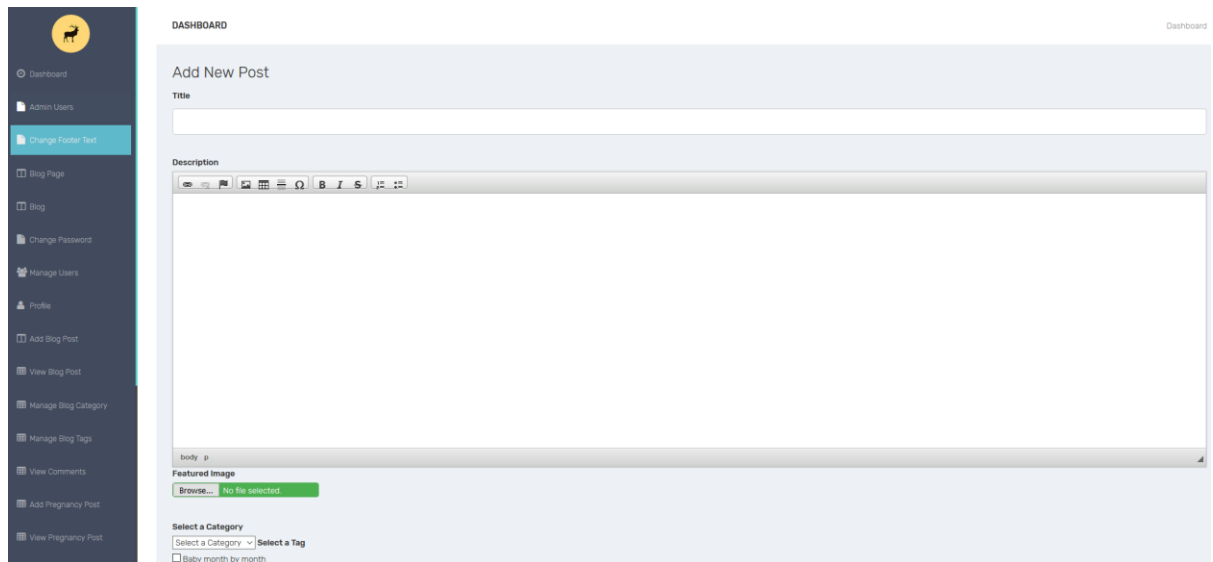


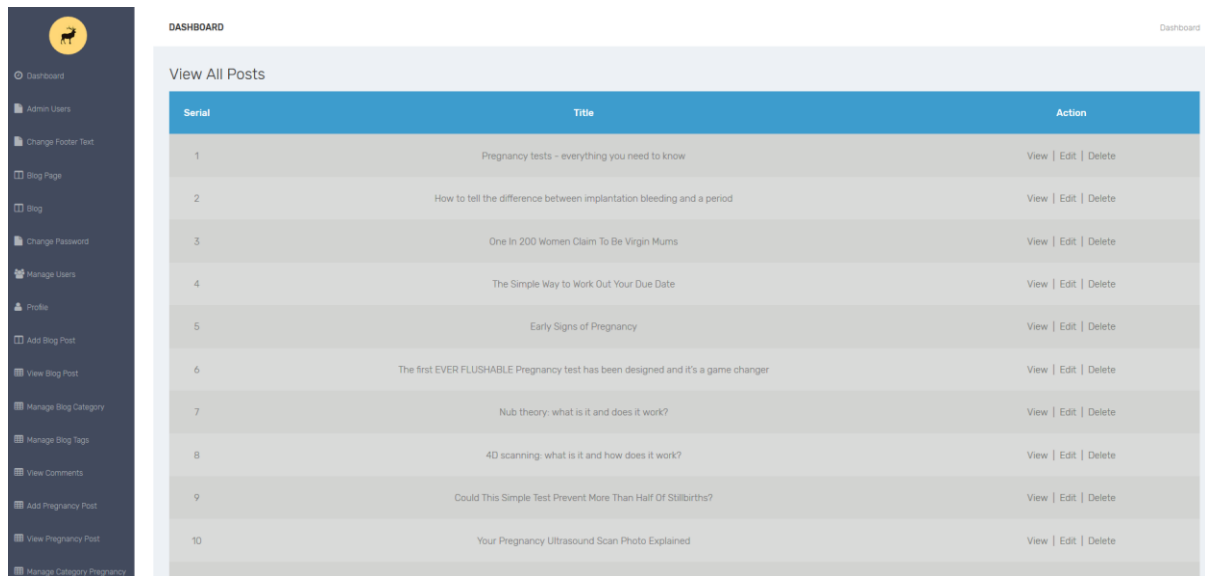
Figure 5.15: Add Pregnancy Page of the Project

The figure above is the system “Mother and baby carrying add Pregnancy page”. Admin add the new Pregnancy in this page.

ADMIN DASHBOARD							Search...	Yusuf
Manage Users								
All User Details								
Sno.	User Name	Email	Date Of Pregnancy	Gender	Password			
1	khan	helloalam7@gmail.com	1980-01-01	male	alam	Edit Delete		
1	yusuf alam	lifer172@gmail.com	1995-06-20	male	123456	Edit Delete		
1	Mutton	beef@gmail.com	1981-02-02	male	123456	Edit Delete		
1	Beef	martuza.shimul	1981-02-02	male	123456	Edit Delete		
1	kamal	yusuf@gmail.com	1981-03-02	femal	alam	Edit Delete		
1	mamun	yusufalam325@gmail.com	1980-01-03	male	Sony	Edit Delete		
1	mamun khan	mamun@gmail.com	1980-01-01	male	Sony325	Edit Delete		
1	dd	yusufalam325@gmail.com	1980-02-02	male	sony3254	Edit Delete		
1	sajib	mamun@gmail.com	1981-02-03	male	sony3254	Edit Delete		
1	hasan	hasan@gmail.com	1984-02-02	male	hasan1	Edit Delete		
1	ggfgh	yusufalam325@gmail.com	1981-02-02	femal	ggfghh	Edit Delete		
1	erwer	erwer@gmail.com	1980-01-01	male	erwerer	Edit Delete		
1	Brittany Preston	monusomab@hotmail.com	1994-02-06	male	Pa55wOrd	Edit Delete		

Figure 5.16: Admin Manage Manager Page of the Project

That is the system admin manage manager page. Admin edit, delete and view manager this page.



Serial	Title	Action
1	Pregnancy tests - everything you need to know	View Edit Delete
2	How to tell the difference between implantation bleeding and a period	View Edit Delete
3	One In 200 Women Claim To Be Virgin Mums	View Edit Delete
4	The Simple Way to Work Out Your Due Date	View Edit Delete
5	Early Signs of Pregnancy	View Edit Delete
6	The first EVER FLUSHABLE Pregnancy test has been designed and it's a game changer	View Edit Delete
7	Hub theory: what is it and does it work?	View Edit Delete
8	4D scanning: what is it and how does it work?	View Edit Delete
9	Could This Simple Test Prevent More Than Half Of Stillbirths?	View Edit Delete
10	Your Pregnancy Ultrasound Scan Photo Explained	View Edit Delete

Figure 5.17: View Children Page of the Project

Figure 5.17 is the system “view Pregnancy page”. Admin view the resisted Pregnancy’s in this page.

5.4 Implementation of Interactions

Interaction design focuses on creating engaging interfaces with well thought out behaviors. Understanding how users and technology communicate with each other is fundamental to this field. With this understanding, you can anticipate how someone might interact with the system, fix problems early, as well as invent new ways of doing.

5.5 Testing Implementation

Testing is the very important part of any system. By testing a system can get away from any kind of bugs and can be earned new requirement which can be added in future.

5.5.1 Software Testing

Software testing is a method of assessing the functionality of a software program. There are many different types of software testing but the two main categories are dynamic testing and static testing. Dynamic testing is an assessment that is conducted while the program is executed; static testing, on the other hand, is an examination of the program's code and associated documentation. Dynamic and static methods are often used together [9].

5.5.2 Software Testing Types

Black box testing

Internal system design is not considered in this type of testing. Tests are based on requirements and functionality.

White box testing

This testing is based on knowledge of the internal logic of an application's code. Also known as Glass box Testing. Internal software and code working should be known for

This type of testing. Tests are based on coverage of code statements, branches, paths, conditions.

Unit testing

Testing of individual software components or modules. Typically done by the programmer and not by testers, as it requires detailed knowledge of the internal program design and code. May require developing test driver modules or test harnesses.

Functional testing

This type of testing ignores the internal parts and focus on the output is as per requirement or not. Black-box type testing geared to functional requirements of an application.

System testing

Entire system is tested as per the requirements. Black-box type testing that is based on overall requirements specifications, covers all combined parts of a system.

Acceptance testing

Normally this type of testing is done to verify if system meets the customer specified requirements. User or customers do this testing to determine whether to accept application.

Load testing

It's a performance testing to check system behavior under load. Testing an application under heavy loads, such as testing of a web site under a range of loads to determine at what point the system's response time degrades or fails.

Performance testing

Term often used interchangeably with ‘stress’ and ‘load’ testing. To check whether system meets performance requirements. Used different performance and load tools to do this.

Usability testing

User-friendliness check. Application flow is tested, can new user understand the application easily, Proper help documented whenever user stuck at any point. Basically, system navigation is checked in this testing.

Compatibility testing

Testing how well software performs in a hardware/software/operating system/network environment and different combinations of above.

6.5.9 Test Results and Reports

SL#	Type of Testing	Grade	Remarks
01	Unit Test	10	9
02	Link Test	10	9
03	System Test	10	7
04	Usability	10	8
05	Compatibility Testing	10	9
06	User Training	10	8
07	Security	10	7
08	Performance	10	9
09	Functionality	10	9

Table 2: Test Reports

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Discussion and Conclusion

The proposed of mother pregnancy and baby's health carrying website is demonstrating all information in the proper way and classifies all vital things. Further, the project makes the community for all users who can post their post into website blog and besides they can put their opinion into the selected comment box. All information works much easier and comfortable compared to the existing management system in this website. It reduces stress level of our women whose are concern their health during the pregnancy period and also set their mind to improve their baby's health nutrition.

- Easy to find vital information on women pregnancy and baby's health.
- Maximum work with in minimum time.
- User friendly environment is easy to access in this website.
- Maintaining the expected date of delivery information to provide assistance if danger signals appear.
- The most important advantage of online is baby's health and pregnancy related article.
- Internet helps people to browse through this website around the world and compare the facilities and rates easily.

6.2 Scope for further developments

- To make the system less time consuming.
- This project is not effective in remote areas with limitation of internet.
- Hard to operate for illiterate people.

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