**FINAL YEAR PROJECT AND INTERNSHIP REPORT TEMPLATE**

**by**

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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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**DAFFODIL INTERNATIONAL UNIVERSITY**

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**APPROVAL**

This Project/Internship titled **“PREGNANCY CARE APP”**, submitted by MD. Julhas Miah Raju ID No: 142-15-3666, M.G. Muktadir Soyeb ID No: 142-15-3579 and MD. Muhaiminul Islam ID No: 142-15-3755 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

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**DeclaratioN**

We hereby declare that, this project has been done by us under the supervision of **Seraj Al Mahmud Mostafa, Sr. Lecturer (on education leave), 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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**ABSTRACT**

This project is on “**Pregnancy Care App**”. This is an android based mobile application which will help the pregnant mother by giving various kinds of information at the time of pregnancy.

The aim of the application is to know about the responsibilities at the time of the pregnancy among all the mother. There is a admin panel on the application. Only admin can upload and modify the total system of the application. For the user there is a sign in and sign up process.

Only register user can be signed in. New user can only enter the app by registered them. When user will open the application they will see their present status. In the application a profile is create for the use to add their present conditions and other things. There is a appointment section where user can add their appointment to the doctor. A personal note is added in the application where user can add some important things to maintain their health during the time of pregnancy.

In the application a tips section is created for the user where they can find any types information from the doctor.

To develop the project the most essential device is a smart phone to test the application. Also need a computer and android studio for writing java and xml coding. On the other hand we needed sublime text and a server to test and upload the MySQL database in the web server.

So, we think it will help all the mother in their pregnancy time. They will learn a lot of things and conscious about their health at the time of pregnancy by this application. After implementation of all features, the system is tested in different devices and it works successfully as a prototype.

**CHAPTER 1**

**INTRODUCTION**

* 1. **Introduction**

This is an android based basic pregnancy care based on mobile application. Basically this application is designed for those women who are not conscious about their health during the time of their pregnancy. Consequently, pregnant women must take steps to remain as healthy and well – nourished as they possibly can. By using this application, they can do this properly. This application will hopefully introduce them to some new ideas and help them to learn about aspects of pregnancy. Using this application, they can easily know when they are appointed by a doctor and when their next appointment is.

* 1. **Motivation**

In current generation nothing is impossible with programming. Because our most useable Smartphone to satellite everything is controlling by programming. Think about that if programming stop working for a day. What will happen? Maybe time will stop for some time for new generation. Actually programming gives life to an object (Artificial Intelligence). This world is changing every time. And we have to work with this running world properly. That’s why we need to know about programming.

* 1. **Objectives**

In this present market there are exist a lots of health related application. They have a lots of good contents. But the main problem is the apps can not specify the health care during the time of pregnancy. So we are going to make the pregnancy care app. This will help to promote, protect and maintain the health of the mother during pregnancy. It detects “high risk” case and give them special attention. We try to know the mother that how to remove anxiety and dread associated with delivery by the app.

* 1. **Expected Outcome**

Expected outcome is making a pregnancy care app which will help all the pregnant mothers for maintaining their health during the time of pregnancy. This application will provide the exact way that helps a mother to care about herself and her upcoming child. It helps them by giving weekly updates and tips on their baby growth and changes to their prenatal body.

User can track their pregnancy symptoms and compare with other pregnant moms by this app. They can monitor weight throughout their pregnancy stages. Using this app they can see weeks and days remaining until delivery. We give a due date calculator in the app so that user can see and remember the delivery date by the app. We also give a weight tracking system in the app so that user can track their pregnancy weight and also learn their healthy pregnancy weight range. Doctor’s appointment is also included in the app so that user can easily remember their appointment date.

* 1. **Report Layout**

**Chapter 1:** In this chapter something about this application has given. Motivation is also given in this chapter. Why user should use the application. Then some objective and also expected outcome are given in this chapter.

**Chapter 2:** It will provide background about this kind of application. It also provides related works about this application. Scope of problems and challenges are also given in this chapter.

**Chapter 3:** Firstly, this chapter will provide the information about business model process (BPM). Then it will provide requirement collection and analysis. After that use case model and logical model will provide in this chapter. Then the requirement is given in this chapter.

**Chapter 4:** In this chapter all the design process are given here like front-end design, back-end design, interaction design. The last thing of this chapter is in implementation requirement.

**Chapter 5:** This chapter discussed about the implementation of database, front-end design, implementation and interaction, testing implementation and the test results of the project.

**Chapter 6:** We have discussed the conclusion of our application, limitation and the scope for further developments of our project in this chapter.

**CHAPTER 2**

**BACKGROUND**

**2.1 Introduction**

Our system will be an interactive android application which can be opened by any kinds of android supported smartphone. In our application user can be registered by his/her email. Registered user can get full advantage by our application. They can get appointment by a doctor easily with our application. By using our application they can easily discover those medicine which are being needed during their pregnancy time. User can also get important tips by our application during the time of their pregnancy.

**2.2 Related Works**

We have researched plenty of documents that is related to pregnancy. We have also monitored some of top level apps that are related to this application. They provide daily and weekly details about growing baby, a due date countdown and other things. But all of this app doesn’t contain the sector of a mother for care about her body during the time of pregnancy. So, we are trying to build this app for the mother care and also their baby care during the time of their pregnancy.

**2.3 Comparative Studies**

Our application is different from other android application. Our application is monitored a pregnant mother by giving her a proper maintained chart about her body and her upcoming baby. She can get alert of every situation by our application. She can also store important notes in our application so that she can be more conscious about her body during the time of pregnancy. By using our application she can easily see her next doctor meet. On the status option she can easily see her present condition. So, she can learn anything that is related to her body and also care for her child.

**2.4 Scope of Problems**

Some application gives huge level of data query about care of pregnant mother during the time of her pregnancy. But it is very difficult to do for this time. To make this application we had to query a huge survey of data collection about pregnant mother. On the other hand we had to learn Photoshop, CSS, HTML and other technology. That is why we cannot add extra feature in the application. Google leaderboard is an excellent feature for every application. This is a long term process that’s why we can not add this feature in our application.

**2.5 Challenges**

To develop this application our first challenge was to learn android application development. Then we have to do more studies about the health of a mother during the time of pregnancy as if this application can fulfill the user’s expectation. We have to make proper tips and proper medicine for this application. This is also a challenges. With this we have to make a proper survey for the pregnant mother for that what they needed. For the online feature we have to learn Java Script and other programming languages. For database enquiry we have to learn how to insert data in the database by using MySQL server. It was also a big challenges for us.