Lappeenranta University of Technology
Department of Information Technology
CT30A9300 .NET – CodeCamp

CMC (Care of Mother & Child)

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Description of the System

CMC is a web application that is intended for pregnant woman either form developed or developing country to provide personal care. Most of the developing countries they don't have good health care due to lack of medical professional as well as remote geographical location. So, there are several problems with, maternal health, child health and other health related issues.

1. **Idea:**

The idea is making the easier and personal care to the remote area pregnant woman using cost effective ICT(Information and Comunicaiton Technology). According to the UN report the developing nations have tremendously incresed uses of mobile communications.

This project will provide maternal health service/consultation to the pregnant woman. The software will work like this. If the pregnant woman is new then she will provide the personal details with pregnancy date. After that those information will send to the web server. That information kept on data server and then immediately she will get tentative delivery date and system will send appropriate information of diet, vaccinations, motivational words and etc. on calculated timely basis.

2. **Application Functionality List:**

- User login.
- Input woman's personal details and pregnant date.
- Immediately system will inform tentative delivery date and on the timely basis related information about diet, vaccination and other symptom.
- System will send automated SMS and Email.

3. **Dot NET Implementation Technology:**

- Asp.net
- NET 3.5 Framework
- C#
- Server (MS SQL 2008)
- Web service

.NET Technology:

CMC is a web application which is implemented with C# and uses the latest .NET technologies as: Asp.net, C#, NET 3.5 Framework, Server (MS SQL 2008) for the database management and Web service. Its graphical user interface has been efficiently implemented with a help of Visual Studio 2008 Express Edition - a powerful rapid application development tool.
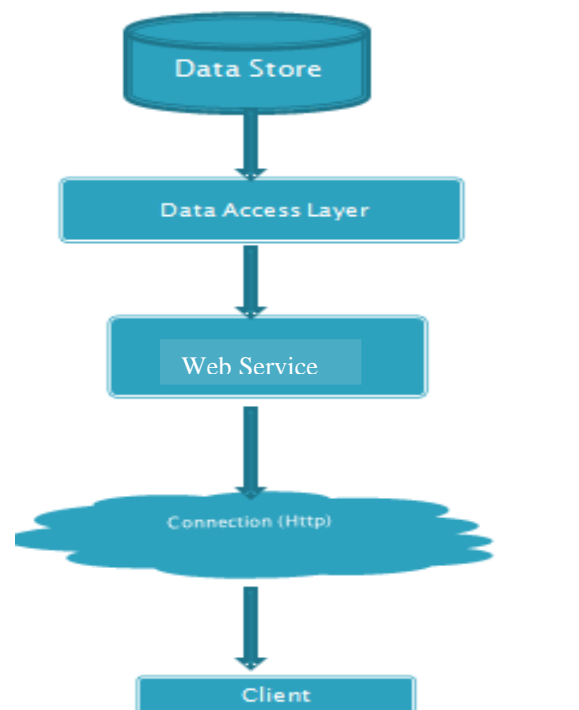
4. Physical Architecture

It shows how the pregnant woman will get the automated relevant information via SMS on mobile or Emails.
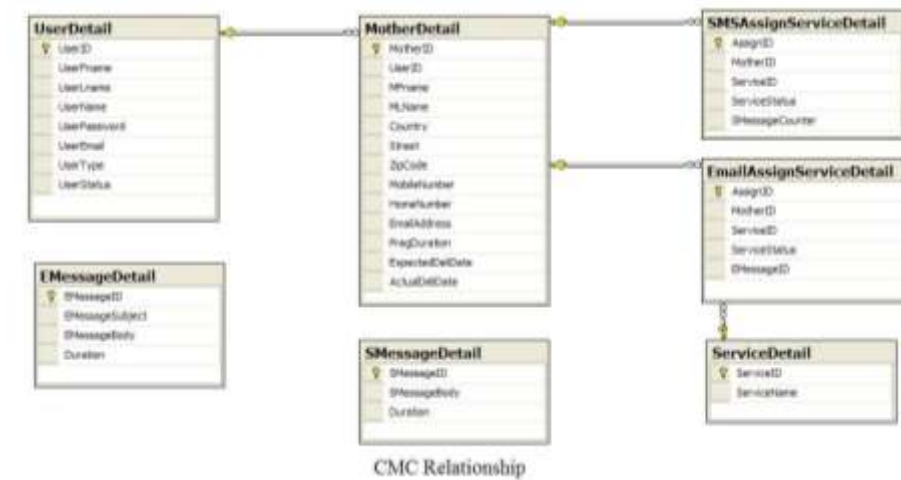
All the information like pregnant woman's details and history will be stored on the web database server.

Fig: Architectural diagram.

3

5. Database Design

CMC Relationship

For the database management CMC mainly uses four tables like UserDetail, MotherDetail, SMSAssignServiceDetail, EmailAssignServieDetail and ServiceDetails and for pre-listed message will be stored on EMessageDetail and SMessageDetail table.

6. GUI Design

The graphical user interfaces are:

- User login, Input Personal details with pregnancy date
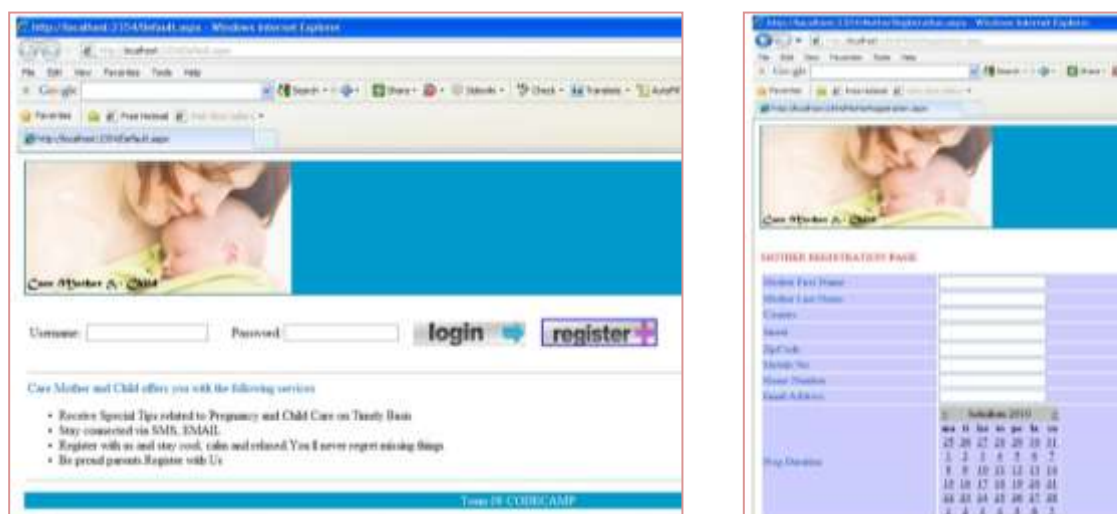- Receive the related information via SMS & Email.

Fig: login page and mother info registration page

7.   Further Development Plan:

Future Plan:

- Health worker coordination with pregnant women
- Statistical Report Generation of child birth, mortality rate, seasonal and regional based problem
- Share used item within community for baby and pregnant woman

References

[1] Code camp- available at; http://www.codecamp.fi
[2] UN page- available at: http://www.un.org/millenniumgoals/maternal.shtml