E-LASIKEVELAPATTI
BABY VACCINATION REMINDER APPLICATION IN KANNADA

PROJECT REFERENCE NO.: 40S_BE_1553

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Introduction:
Vaccination is the administration of antigenic material(a vaccine) to stimulate an individual’s immune system to develop adaptive immunity to a pathogen. Vaccination is the most effective method of preventing infectious diseases, widespread immunity due to which, vaccination is largely responsible for the worldwide eradication of smallpox and the restriction of diseases such as polio, measles, and tetanus from much of the world. Childhood vaccination is usually provided as a routine service in maternal-child health clinics or other health facilities.

Parents need to do everything possible to make sure their children are healthy and protected from preventable diseases. Children should receive the vaccinations they need at the right age during scheduled or drop-in clinic visits. Outbreaks of preventable diseases occur when many parents decide not to vaccinate their children. If children are not vaccinated, they can spread disease to other children who are too young to be vaccinated or to people with weakened immune systems. Because of advances in medical science, child can be protected against more diseases than ever before. The disease prevention benefits of getting vaccines are much greater than the possible side effects for almost children. functions. E-LasikeVelapatti is an android application for tracking baby’s vaccination. This android application works by taking the information about the child like date of birth, gender, city. It sends the notifications to the users to remind their baby’s vaccination due at their fingertips.

Objectives:
- To provide alert for upcoming vaccination with its price based on birth date of the baby according to immunization chart prescribed by government of India.
- It also helps the customer to find the address and contact number of nearby hospitals for treatment.
- Keep a track of your child’s growth by storing information like his height and weight to get graphical details about his growth.
- To provide description of vaccination along with its side effects if any.
- Quick view summary report of child's completed and upcoming vaccines.
- Send a message regarding polio vaccination date and location of nearest polio booth.
Methodology:

This project is based on the database, Android based and web based techniques. To keep the records in database it uses MySQL software which is one of the best and the easiest database to keep information. This project uses Java as the front-end software which is an Android based Programming and has connectivity with MySQL. The user’s details are stored in a navicat database like their name, date of birth and gender. The details are finally connected to the Apache Tomcat server. This enables the admin of the application to control and keep track of the number of users. This project includes Global Positioning System to track the location of patient, to provide polio booth address and hospital address in case of emergency. Identify information to include in a text message reminder, conduct requirements gathering to build a text message feature and plan for implementation of the SMS feature. Group discussion has to be conducted to determine effectiveness of strategies and methods for sending immunization reminders and determine appropriate message content, the frequency of sending messages, and the message preferences for missed and upcoming appointments.

<table>
<thead>
<tr>
<th>Hardware Specification</th>
<th>Software Specification</th>
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<tbody>
<tr>
<td>Process: Dual Core 64-bit processor-i3</td>
<td>Database: SQLite, MYSQL</td>
</tr>
<tr>
<td>Ram: 4 GB</td>
<td>Android version: 2.2.3</td>
</tr>
<tr>
<td>Hard disk: 100 GB</td>
<td>OS: Windows-8.1 &amp; above.</td>
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Result and Conclusion:

E-LasikeVelapatti application is designed to protect young children before they are likely to be exposed to potentially serious diseases and when they are most vulnerable to serious infection. Creation of awareness about vaccination increases the rate of vaccination and thus prevents great reduction of vaccine preventable diseases. It is an useful android application which can help a lot of rural people in Karnataka. The use of this application helps parents not to memorize the list of vaccinations to be given to their child. It also has a user-friendly interface and self explanatory. The user of this application will not miss any of the vaccines and hence prevents the child from suffering any serious diseases in the future. Apart from the vaccination notification, it allows the users to check the child’s growth (like height, weight) rather than visiting the hospital every week or month. The application takes the current location of the user and provides the map. It reduces the time of parents to search and visit the hospitals for vaccinating their child in case of any emergency. The application takes the current location of the user and provides the map. Since the application is in Kannada it can reach large number of people in Karnataka.

Scope for Future work:

Since the application provides the reminder in the form of notification, in future it should be enhanced so that it sends in the form SMS.