



उन्नत भारत अभियान Unnat Bharat Abhiyan



NEW PROPOSAL-TECHNOLOGY DEVELOPMENT

Project Title:

Voice integrated Vaccination care system for rural women

Subject:

Rural Health Management

Village Name:

Varadharajapuram

District and State of the Village:

Kancheepuram, Tamilnadu

Proposed by (Principal implementing organization/ Department)

Sri Sairam Engineering College, Chennai

Name and contact of Principal Investigator (PI):

Dr. S. Samundeswari

Dr. M. Nithya

Ms. V.Lalitha

collabarititting Organisation (if any):

NIL

Mobile and Email of the Contact Person of collaborating Organisation(if any):

NIL

Objectives of the Project (Min 50 words):

- To make vaccinations available for all the infants.
- To improve the health and immunity of infants.
- To provide regular notifications of vaccination dates.
- To enable easy understanding by providing notification in native language.
- To provide integrated voice system for people who cannot read.

Experience in the Field for PI:

We are working as Assistant Professors in the Department of Computer Science and Engineering, having more than 14 years of experience in this field. We have guided numerous projects for students in Mobile applications.

Brief Plan of Activities (Min 100 words):

There is a lack of knowledge among rural parents about vaccinations. In rural areas, home births are more prominent where babies are delivered at homes under the supervision of elderly ladies without any professional help. However it is essential to vaccinate newborn babies to improve their immunity and keep them safe from diseases. Immunization can be inadequate due to delayed vaccination (i.e. vaccinations are not provided in time), incomplete vaccination (i.e. some vaccinations are missing) or no vaccination (i.e. the child did not receive any vaccine). To receive age-appropriate doses of antigens, children need to be taken to the health facility by their parents. Also, there is a lack of awareness among the parents to give their infants proper vaccination.

Technical intervention with proper assessment for viability of the outcome (Min 50 word):

The main aim of this project is to provide awareness and details to the parents about vaccinations and help their infants to be healthy and with good immunity. We develop an android application using java programming language to implement this system. Data will be collected from the nearest primary health centre located in the village. In the mobile application, the date of the child birth has to be specified. The system will create a vaccination chart which states the dates in which the baby must be given vaccinations. The vaccination chart is always available, which allows the parents to check their schedule at any point of time. Timely reminder will also be given as notifications to vaccinate the child. In rural areas, there is a possibility that the parents are uneducated, hence cannot read or write. To overcome this, we provide an integrated multilingual voice system which will automatically call the parents and provide reminders in their native language. The parents must vaccinate the child and update it in the application. Otherwise the reminder call will be given daily until the child is vaccinated. The application also specifies the nearest health center where the vaccination is available. This creates awareness among the people and also helps them to vaccinate their child.

Role of your Institute:

A computer will be kept in the primary health centre. A mobile application will be developed to enable awareness among the maternal women in the rural areas. The application will be monitored and maintained regularly to check the effective working of the application and also making sure that the infants are regularly getting their vaccinations.

Cost of the facility:

Rs 35000

Project deliverables (product /process/ improvement / capacity building etc.):

Our final product will be a mobile application with an integrated voice system. The android application is developed using android studio and java language. The system will create a vaccination chart which states the dates in which the baby must be given vaccinations. We provide an integrated multilingual voice system which will automatically call the parents and provide reminders in their native language.

Availability of funds from other sources:

NIL

Duration of the work (in terms of work plan):

3 month

Impact of the Project in Villages:

Development and use of technology for rural development. Empowering the parents and providing them an opportunity for the healthy upbringing of their infant. Provide details about the vaccination schedule and the medical facilities near them. Facilitates the rural children to be healthy.

The World Health Organization aims to provide vaccinations to all the children all over the globe and our application will help to make this goal a reality.

Breakage of Expenditure(Upload a PDF file containing the expenditure):

Maximum File Size Allowed:-2 Mb and Only PDF are allowed

No file chosen

Proceed

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