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Antariksha Bhandari

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ABSTRACT

Vaccination is important for the newly born child, so he/she can never be influence by the diseases they may face in the future. Many health post have been appointed for it. Vaccine is the important part for the child to increase its immunity system from having any kind of viruses that attack it. With the force we came up with the platform that will help the people with knowledge and information, **Khop**.

Khop is an application software that run on android devices. It provides information about the date for the vaccine and also provide knowledge of different vaccine. It aims to provide accurate set of data as possible. Khop genuinely help to set the reminder of next vaccine that is to be provided. During the development of the project we went through development of various stages of requirement collection, system design, development to testing and maintenance. The application uses **Apache Cordova** Framework with HTML, CSS, JavaScript, Sublime Text 3, Adobe Photoshop CC and Android Studio for front end & Web SQL and Phonegap for back end. Testing method are in process and helpful for effectiveness and reliability of software. The application can be opened through any android devices.

This application helps the user to add profile, view vaccine information and schedule, set reminder for the next vaccine to be provided and also can view the Location of Nearest Vaccine Schedule.

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Abbreviation

API	Application Program Interface
APK	Android Application Package
CC	Creative Cloud
CLI	Command Line Interface
COCOMO	Constructive Cost Model
CSS	Cascading Style Sheet
FP	Functional Point
HTML	Hypertext Markup Language
H/W	Hardware
LOC	Line of Code
NIP	National Immunization Program
OS	Operating System
RAM	Random Access Memory
SDLC	Software Development Life Cycle
SQL	Structured Query Language
UI	User Interface
WHO	World Health Organization
WYSIWYG	What You See Is What You Get

Chapter 1: Introduction

1.1 Background

Khop is an android application that is focus on child vaccination. It provides information about vaccination detail of child according to their date of birth. It gives information on what type of vaccine and when it is necessary for the child.

Vaccine is necessary for the children to improve the immunity power to defect the virus that may harm them in the future. In many cases there are the viruses that occurred in born child and so it is necessary to provide the vaccine to prevent them from any lack of immunity.

The mortality of Khop is to provide the facility required by the child in its early stage. The application is design in such a way that it keeps the record of the individuals with the hope to develop a better environment for its future. Khop provide a way of defining a way that develop a list of vaccine need and what time and when, that acknowledge the child adequate information in the time period. Khop list out the information for the users to maintain the balance of child immunity that is useful for the future and provide will healthy environment around them

Vaccine is a substance prepared from disease causing agent or its toxic produced that simulated for the production of specific antibody. Vaccines stimulate body's own immune system to protect the person against subsequent infection or disease.

A vaccine is any preparation intended to produce immunity to a disease by stimulating the production of antibodies. – WHO

The most common method of administering vaccine is by injection but, some are given by mouth or nasal spray.

National immunization program (NIP) Government of Nepal is providing immunization services through national immunization program for control, elimination and eradication the diseases. Supplementary immunization activity has also been conducted frequently to achieve the stated goals of vaccine preventable diseases (VPDS). Except NIP for seven vaccine preventable diseases various campaigns and eradication program are launched to eradicate and eliminate certain diseases such as polio, tetanus, measles etc.

1.2 Problem Definition

Many problem arises in the process of vaccine. In content of Nepal there are many problems that occurs due to lack of knowledge the people have. The negative impact is also the huge cause of the problem that the people face. Problem definition simply model the content that arises in the sector of vaccine. The awareness of the problem is due to lack of various field it faces to deliver the information at the right time. All the information about the vaccine may not be provided at the right time and any develop problem that the society will face. Some of the problem that are faced in the problem definition are as follow:

- Lack of awareness

  Most of the people don't know the symptom and the diseases that the child faces in the early stage until there are it's too late. The problem occurs in the child welfare develop the once self-confidence to break and its society. Lack of awareness develop the symptom that establish in welfare of child.

- Lack of knowledge and information on vaccine detail

  Many kinds of vaccine are developed in the protection from different diseases of that is developed by the child during its early stage. To overcome this, one must know the knowledge and information about it, but if they are not aware with these knowledge and information about these detail then their child develops the symptoms and diseases which are difficult to cure in the near future.

- Time consuming

  Parent doesn't know the knowledge and information about the vaccine their child required. For these requirement they need to visit the health post to get that information which will be time consuming. Thus the time period may get lengthy and child doesn't get the proper vaccine need during their age.

1.3 Objective

The main objective of this project are:

- To provide vaccination detail and day of vaccine of child according to their date of birth.
- To provide information of nearest vaccine center.

1.4 Scope

Scope is the part of project planning that involves determining and documenting a list of specific projects goals, deliverables, tasks, costs and deadlines. Scope explains the boundaries of the project, establishes responsibilities for each team member and sets up procedures for how completed work will be verified and approved.

The scope of this project are:

- Khop provides vaccination detail and day of vaccine according to birthdate of child.
- Khop provides location and details of nearest vaccine center according to your current geographical location.

1.5 Limitation

The Limitations of this project are:

- Not provide SMS Alert
- Only registration no need authentication or User Login

Chapter 2: Requirement Analysis

2.1 Study of Existing System

The problem with the existing system is that it is a manual windows based application that generate the schedule of vaccine and with the detail of each vaccine. This application does not feature the requirement needed for the users aren't for effective. As it is only windows based application there aren't many users that may know about this application. At times the vaccine schedule creator only provides the information of different vaccine that the child need to take on weekly bases that doesn't provide an effective way to result for a user. So our application makes it easy to help these people by listing the information as well as to set reminder to the people.

Some existing system that we studied for this project is:

- Vaccination Scheduler Creation

2.2 Data Collection

Any process of preparing and collecting data, for example as part of a process improvement or similar project. The purpose of data collection is to obtain information to keep on record, to make decisions about important issues, or to pass information on to others. Data are primarily collected to provide information regarding a specific topic.

Data collection usually take place early on in an improvement project, and is often formalized through a data collection plan which often contains the following activity.

- Pre collection activity
  - Agree on goal, target data, definitions, methods
- Collection
  - Data Collection
- Present findings
  - Usually involves some form of sorting analysis and/or presentation.

Different techniques for data collection are listed below:

2.2.1 Field Visit

The Field Visit is an important opportunity to build a relationship with the organization, trusting and responsive partnership. The field visit is the part of project for data collection and requirement analysis. During our project we visited the vaccine center located at Thankot where we researched about types of vaccines used for immunization in Nepal. And also the duration of vaccination taken by child and time period of vaccination program conducted by NIP (National Immunization Program) government of Nepal.

2.2.2 Internet Research

Internet research is the practice of using internet information especially free information on the World Wide Web in research. Internet research is also a part or way of data collection and use in requirement analysis. During our project we used internet for research of our project's data collection. We searched about the methods, testing used during our project in brief. As our project is about vaccination. We used internet to know about the vaccination, types of vaccines used for immunization in Nepal. We also research about the static of child vaccinated and those who were not vaccinated due to lack of manpower awareness and good management.

2.3 Software Requirement Specifications

Before staring the development of the system different requirement are taken to the consideration. The important requirement are as follows:

2.3.1 Functional Requirements

a) Menu

In this section the user can involves with the various requirement. All the information about the nearest vaccine center can be view as well as change the setting and with more other detail.

b) Registration

User can register with the child information and get access to the system.

c) Vaccine Center Location

System provide the information about the location of the nearest vaccine center and also provide extra necessary information.

d) Khop information update

Our system provides the tips for the user about the necessary information about vaccine that will be useful to the user.

2.3.2 Non Functional Requirements

- User Friendly

  This application is user –friendly enough to meet the computer knowledge and skill of the general users. It ensures that the system is user-friendly. User friendliness is achieved through providing easy navigation such as via usage of standardized and generalized navigation, using standardized wording or avoiding jargons, and so on.

- Availability

  As concerned to availability system is error free and rate of system failure rate is slow. The system is available all the time as requires by system users.

- Reliability

  With a reliable source and tools, the outcome would be reliable as well.

- Speed

  The response time of the system is fast. During the time of system progress or runtime while using system and viewing details system doesn't make feel user as low response time. Overall system is fast.

- Android Version 4.0

  This application must run all the android platform version that are available in the market from Android 4.0 (Ice Cream Sandwich) to Android version 7.0 (Nougat).

- Accuracy of information

  The application provides necessary and accurate information by ensuring high level data accuracy. This application ensures by avoiding errors and mistakes during the process of data insertion and retrieval from database. The application ensures the accuracy by showing accurate results.

- Usability

  A simple and standardize UI design with all the necessary features would be sufficient and efficient for a normal user to get along with the application.

- Performance

  The performance of the application is determine by various factor like response time, throughput, resource utilizations etc.

- Maintainability

  In order to maintain the application, the data needs to be fetched and updated time and again. Also the tools need to be updated properly.

2.3.3 Software Environment for application

a) Hardware (H/W) Requirements
   - Processor: Qualcomm APQ8064 Snapdragon S4 Pro or less.
   - RAM: 512 MB or more.

b) Software (S/W) Requirement
   - Operating System: Android OS.
   - Version: Sandwich or more (Android 4.0 or more).

2.4 Feasibility Analysis

Preliminary investigation examines project feasibility, the likelihood the will be useful to the organization. The main objective of the feasibility study is to test the Technical, Operational and Economical feasibility of the system. All system is feasible if they are unlimited resources and infinite time. The aspects in the feasibility study portion of the preliminary investigation:

2.4.1 Technical Feasibility

The technical issue usually raised during the feasibility stage of the investigation includes the following:

- Does the necessary technology exist to do what is suggested?
- Do the proposed equipment have the technical capacity to hold the data required to use the new system?
- Will the proposed system provide adequate response to inquiries, regardless of the number or location of users?
- Can the system be upgraded if developed?
- Are there technical guarantees of accuracy, reliability, ease of access and data security?

The current system developed is technically feasible. Thus it provides an easy access to the users. The database's purpose is to create, establish and maintain a workflow among various entities in order to facilitate all concerned users in their various capacities or roles. Permission to the users would be guarantee of accuracy, reliability and security. The work for the project is done with the current equipment and existing software technology.

2.4.2 Operational Feasibility

Proposed project is beneficial only if they can be turned out into information system. That will meet the organization's operating requirements. Operational feasibility aspects of the project are to be taken as an important issues raised are to test the operational feasibility of the project include the following:

- Is their sufficient support for the management from the user?
- Will the system be used and work properly if it is being developed and implemented?

This system is targeted to be in accordance with the above mentioned issues. Beforehand, the management issues and user requirements have been taken into consideration. So there is no question of resistance from the users that can undermine the possible application benefits. The well-planned no design would ensure the optimal utilization of the computer resources and would help in the improvement of performance status.

2.4.3 Economical Feasibility

A system can be developed technically and that will be used if installed must still be a good investment for the organization. In the economic feasibility, the development cost in creating the system is evaluated against the ultimate benefit derived from the new systems. Financial benefits must equal or exceed the cost.

The system is economically feasible. It does not require any addition hardware or software as the interface for this system is developed using the existing resources and technologies available.

Chapter 3: System Planning

3.1 Planning

Planning is necessary before building any system. Before developing Khop, we made discussion on various topics on what model our system is going to be based, how much cost would be model for developing the system and how much time do each of member need to speed the development system.

3.2 System Development Modal

For the project we found that Evolutionary Prototyping Model suits perfectly for the development of this system. So based on this model we created a prototype at the beginning and further kept on improving the same prototype time and again which would not have been possible if we had use other model as other may require multiple prototype, we cannot upgrade the same prototype time and again.

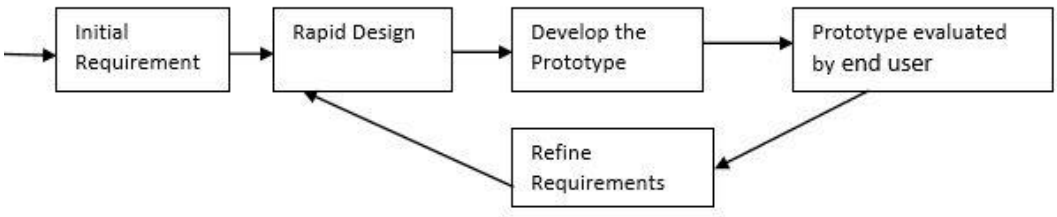


Figure 3.2: Evolutionary Prototype Model

This model allows the users to start the development of the system even with minimum requirements and later allows user to develop the system by aiding new requirements.

3.3 Work Breakdown Structure (WBS)

At the beginning of the project we divided the work among the four members of the team. Different parts of the projects were assigned to different members of the team. Different parts of the projects were assigned to different members of the team, some were assigned to code for the development of the system and some were assigned to prepare the documentation of the project.

The Work Breakdown Structure of the Khop:

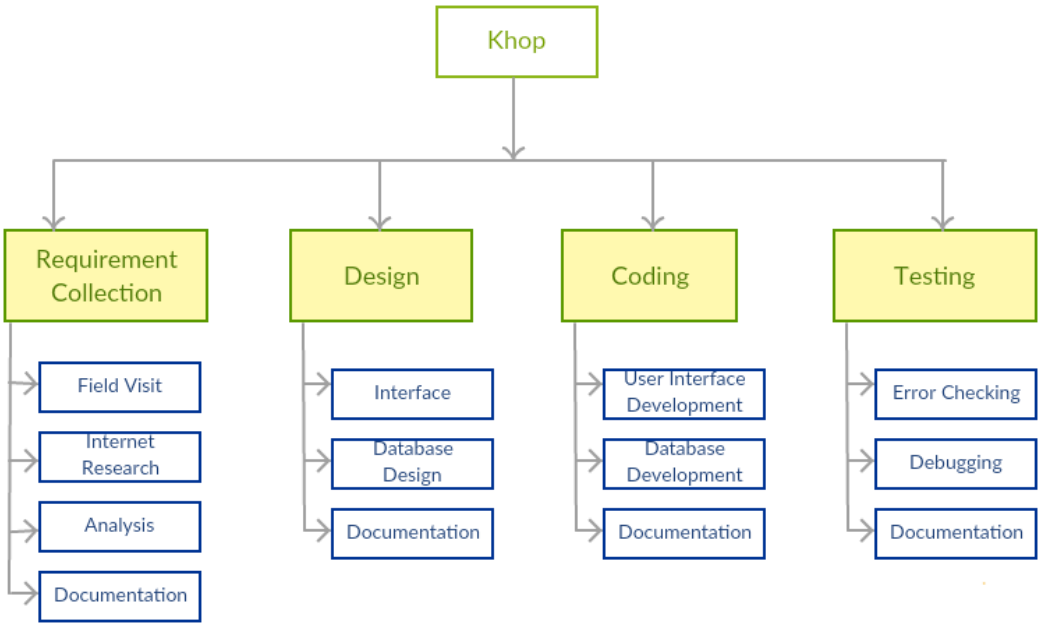


Figure 3.3: Work Breakdown Structure of Khop

3.4 Resource Requirement (COST Estimation)

For the cost estimation of our system we calculate COCOMO model to conduct the effort and duration does our system required. To calculate the cost estimation, we were able to get the calculation as:

The total count of the system: 37.00

The functional point (FP) of the system: 28.4

The Line of code (LOC) of the system: 20

LOC/FP = 562.40

We choose organic value and calculated the effort and duration as:

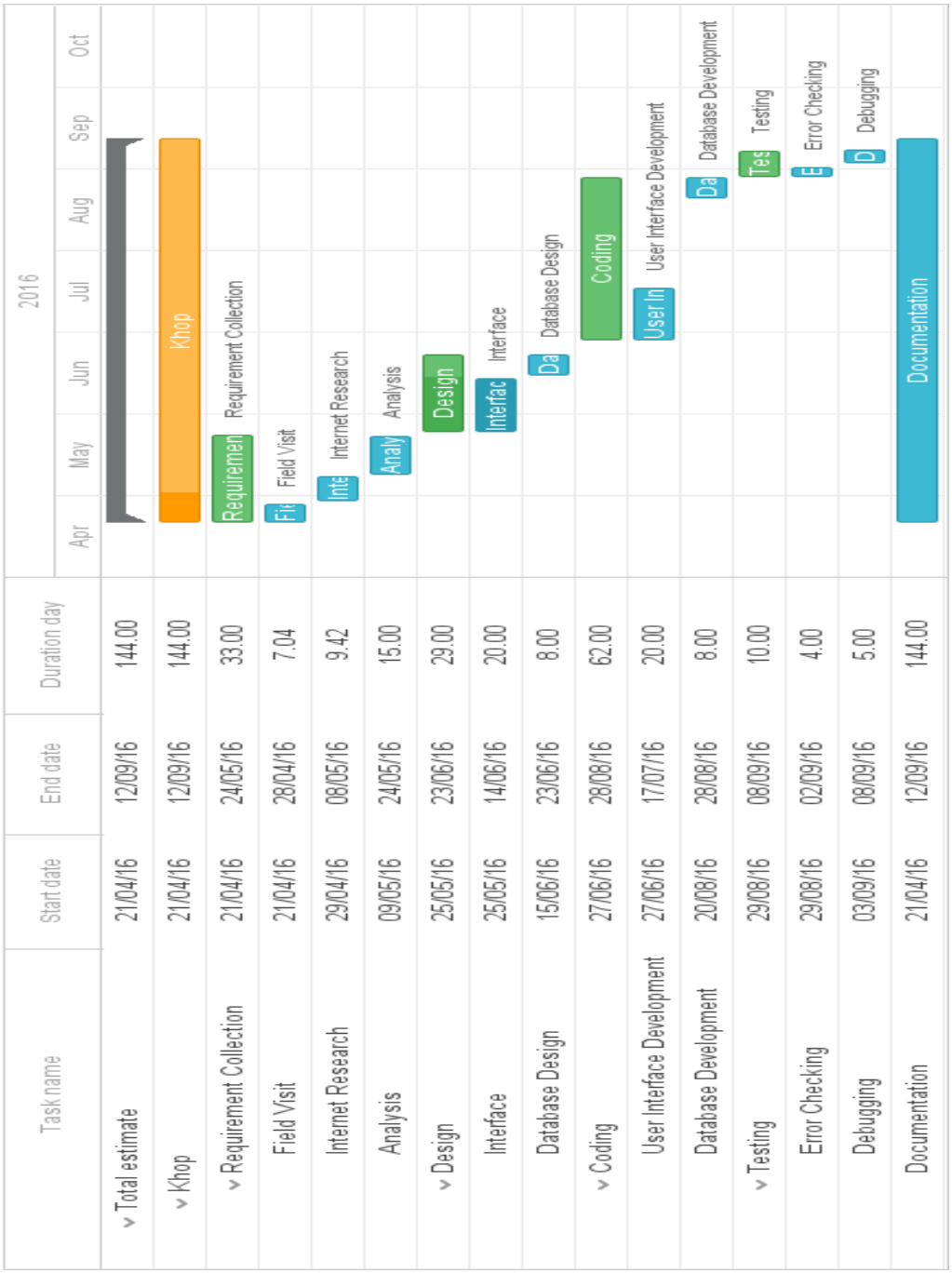
Effort (E) = ab (KLOC) bb = 1.31

Duration (D) = cb (E) db = 2.77

Approximately it concludes that the system requires 2 persons, need for the duration of 3 months.

3.5 Time Schedule

Work related to Khop has been completed. The data flow has been decided and we have clear idea about the several modules and how these modules interact with each other. Simple testing is being done parallel with coding. The details of decided schedule can be viewed from the proposed GANTT chart shown below: -



*[Note: 7/17/2016 – 8/17/2016:7th Semester Exam Break.]

Figure 3.5: GANTT Chart of Khop

Chapter 4: System Design

4.1 Design

Designing is the most important phase of software development. It requires a careful planning and thinking on the part of the system designer. Designing software means to plan how the various parts of the software are going to achieve the desired goal. It should be done with utmost care because if the phase contains any error then that will affect the performance of the system, as a result it may take more processing time, more response time, extra workload, etc.

4.2 System Architecture or Overview

System design is simply the design of systems. It is the process of defining the architecture, components, modules, interfaces and data for a system to satisfy specified requirements. It implies a systematic and rigorous approach to design – an approach demanded by the scale and complexity of many systems problems.

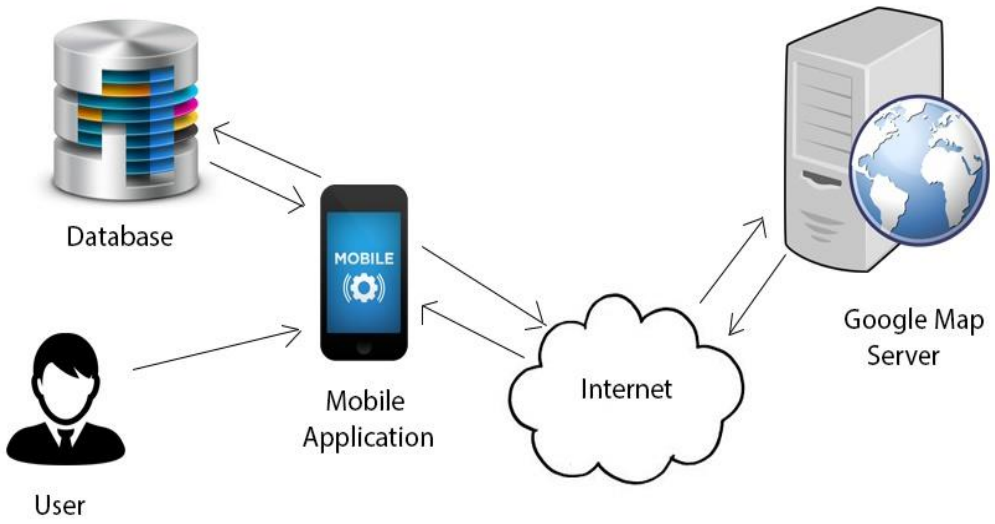


Figure 4.2: System Architecture of Khop

In the above figure, we see the user, database, mobile application and Google Map Server. User access the data from the database which is stored locally in the mobile application. We use Google Map Server for the location of vaccine center. Whenever user want to see the location of vaccine center, mobile server/application uses the internet and get the requested data from the Google Map Server.

4.3 System Diagram

4.3.1 Use Case Diagram

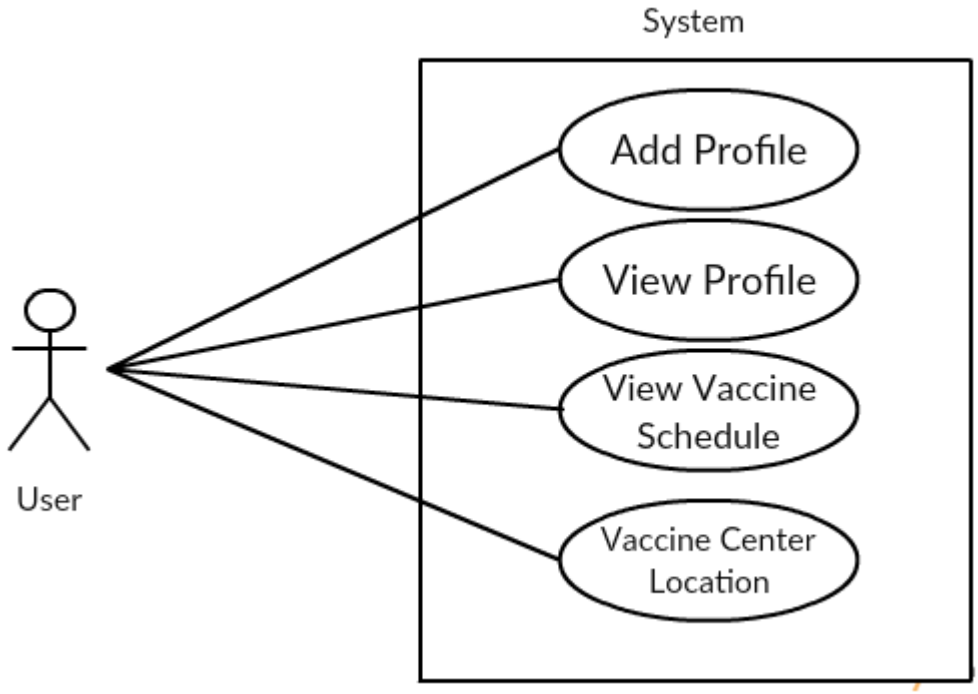


Figure 4.3.1: Use Case of Khop

4.3.2 Activity Diagram

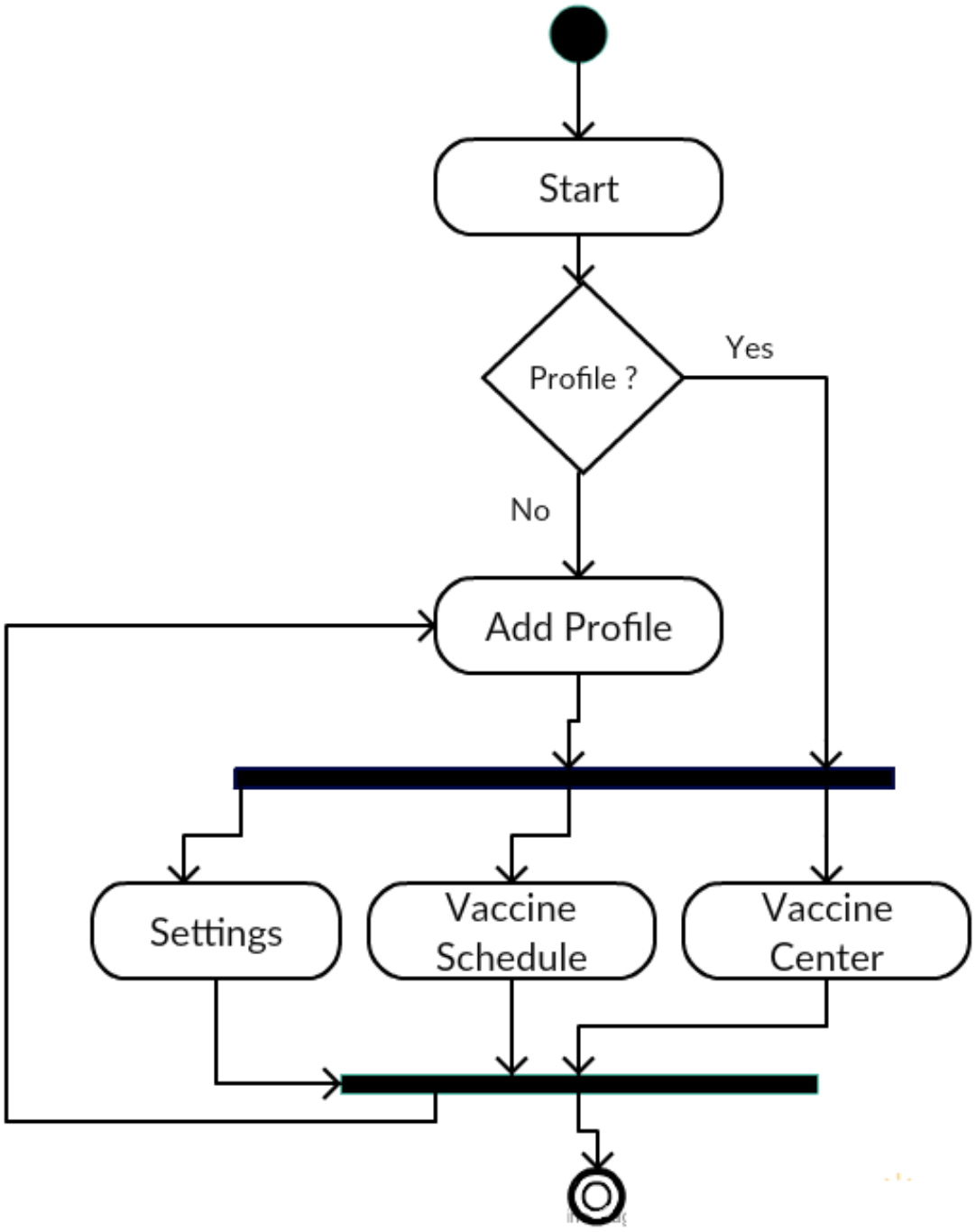


Figure 4.3.2: Activity Diagram of Khop

4.3.3 Sequence Diagram

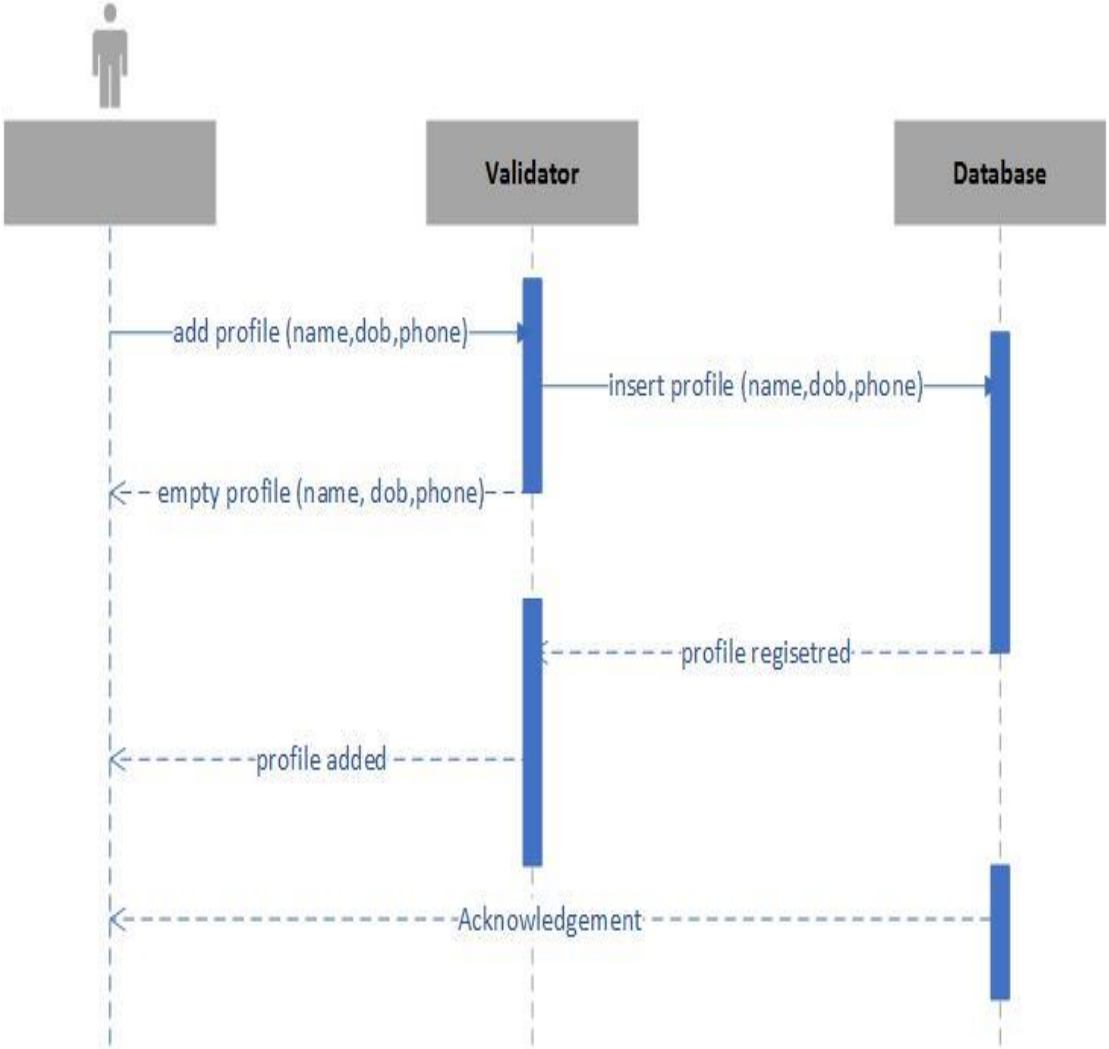


Figure 4.3.3: Sequence Diagram of Khop

4.3.4 Deployment Diagram

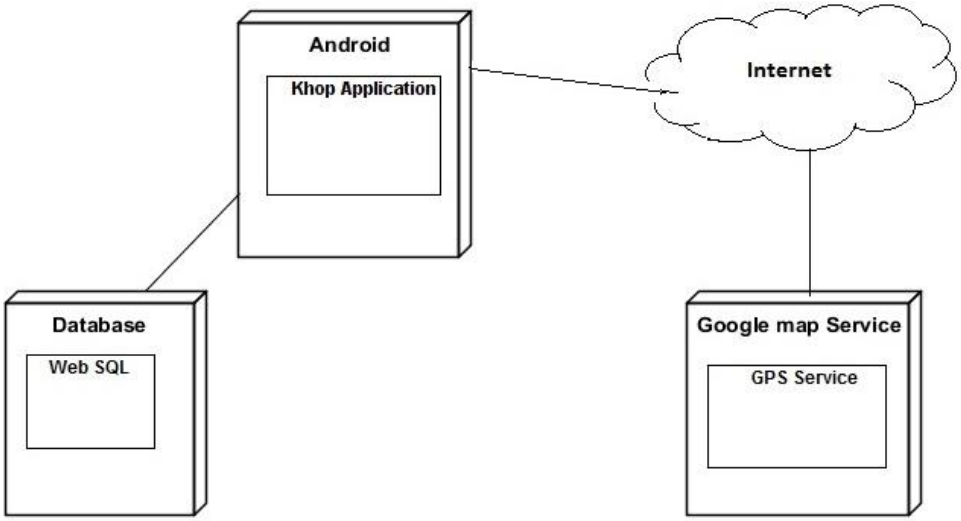


Figure 4.3.4: Deployment Diagram

4.3.5 Database Schema Design

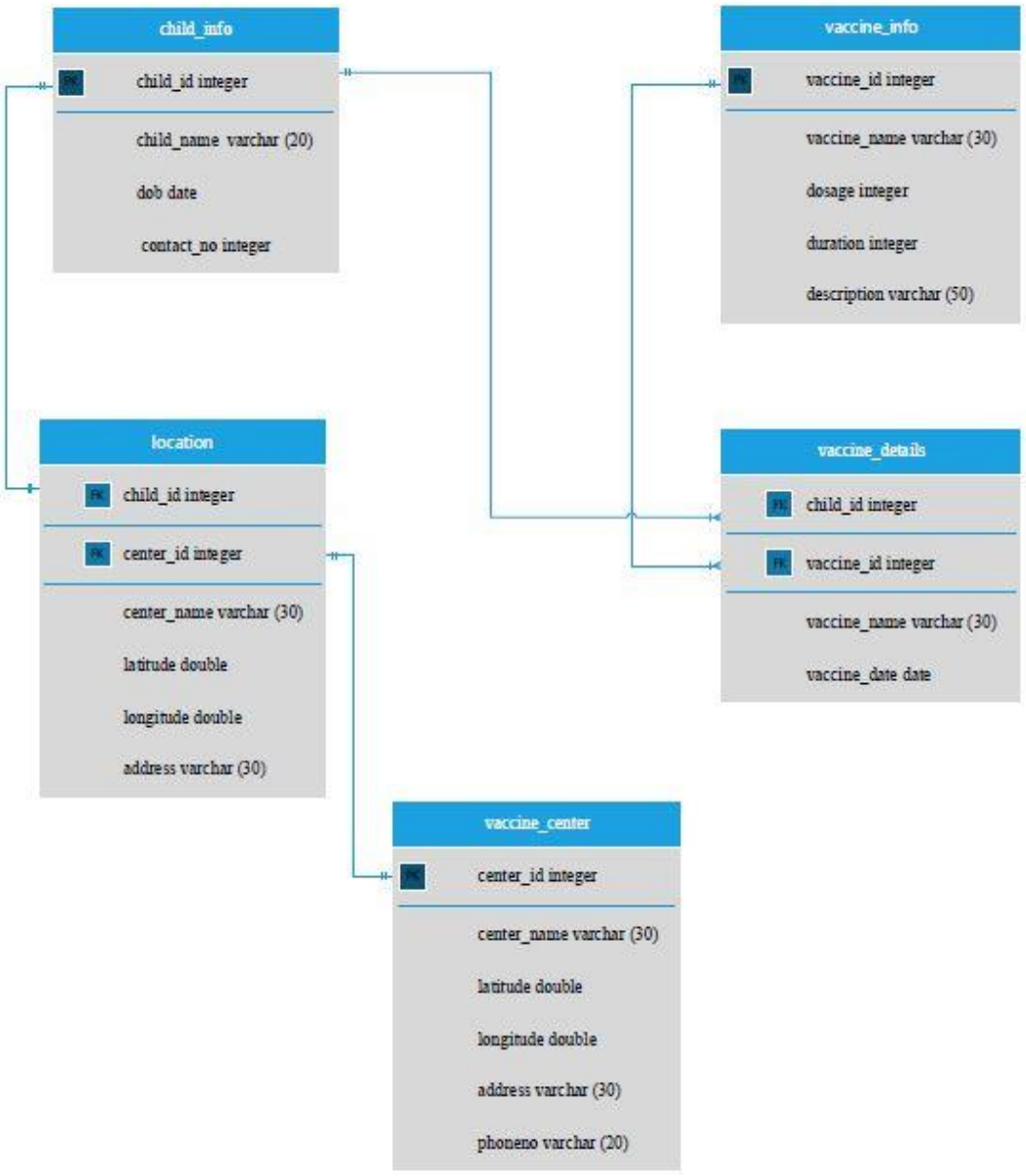


Figure 4.3.5: Database Schema of Khop

Chapter 5: System Development and Testing

5.1 System Development

System development and testing stage deals with development of the system and the tools that were used for the development and it consists of two most important parts i.e. coding tools used and testing strategies.

5.2 Tools Used

5.2.1 Front End

- Sublime Text 3

  We have used Sublime Text version 3 for writing and modification of the code.

- HTML 5

  Hyper Text Markup Language, commonly referred as HTML is the standard markup language that is used to create web pages. Hypertext Markup Language (HTML) is a syntax used to format a text document on the web. Since, Web Browser act as a Rendering Engine, it can read HTML files and render them into visible pages.

- CSS

  Cascading Style Sheet (CSS) is a style sheet language used for describing the presentation semantics (the look and formatting) of a document written in a markup language. CSS is designed primarily to enable the separation of document content (written in HTML) from document presentation, including elements such as the layout, colors, and fonts.

- JavaScript

  JavaScript (JS) is an interpreted computer programming language. As part of web browsers, implementations allow client-side scripts to interact with the user, control the browser, communicate asynchronously, and alter the document content that is displayed.

- Adobe Photoshop CC (v14.2)

  We have used Adobe Photoshop CC (i.e. version 14.2) for mockup designing of the application's layout and other various image edition.

- Android Studio (v2.1.3)

  We have used android studio to build APK (i.e. Android Application Package) from the source code and test application directly in the android emulator. Here, we use Nexus 5x with Android version 4.4.2 to test the application.

- Microsoft Visio 2016

  Visio is a powerful diagramming application that lets you work visually to create all sorts of diagram required during software development.

5.2.2 Back End

Back End is the part of the system that normal users don't want to know about it. System administrator manages it. Back end possess database and administrator manages it. The following parts are contained in back end of Khop.

- Web SQL

  Web SQL Database is a web page API for storing data in databases that can be queried using a variant of SQL. The API is supported by Google Chrome, Opera, Safari and the Android Browser.

- Phonegap

  Phonegap is the desktop application that is used to create hybrid application (i.e. multiplatform application) which runs on different platform such as Android, IOS and Windows. Phonegap is developed by Adobe. Previously, Phonegap is known as Apache Cordova. Apache Cordova fully uses CLI (Command Line Interface) to create project and for uses of various native application features. Phonegap runs just above the Apache Cordova and uses full features of it.

5.3 Testing

Testing is an integral part of the software development process. It is performed at each stage of the software development process. It ensures that the developed parts conform to the user requirements. It helps to find out whether an input given to the system is well processed or not and output meets the specified objective of the system. It mainly ensures that the system performs well.

The testing of the system was carried out step or step. Test plan is to select a set of actions that are carried out in order to reveal the defects of the system the main purpose of the testing an information system is to find the errors and correct them. A successful test is one which finds errors. Information testing is a comprehensive evaluation of the programs, manual procedures, computer operations and controls.

When the components of the system were being developed, they were at the same time being tested. The unit testing was done right at the time of development. The module testing was done on components and the system testing was done at the end. Hence, each component of the system undergoes unit testing, integration testing and system testing.

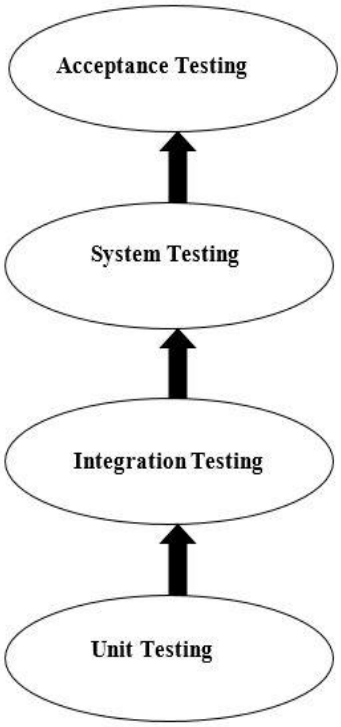


Figure 5.3: System Testing

5.3.1 Unit Testing

This testing is concerned with the testing of the small module. The basic unit of software is often called “unit”, “module”, or “component”. In this test phase, each unit/function developed was tested just after the implementation. As work was divided and after coding it was tested in parallel and after getting bug free. Each module is tested i.e. register.

Table 5.3.1: Unit Testing of Khop

Test case	Test case	Pre-condition	Input test data	steps to be executed	Excepted result	Actual result	Pass/Fail
1	Test if user is able to register.	User must be register	Correct username, phone no and dob	1.Enter input (correct) username, phone no, dob 2. Click register	User must successfully register.	User is register successfully	Pass
2	Test if unregistered user is not able to access.	.....	Incorrect username, phone no, dob	1. Enter input (correct) username, phone no, dob 2. Click register	Proper error must be displayed & prompt to register again.	User cannot register	Pass
3	Test with valid username phone no & empty dob such that user registration must get failed	.....	Valid username, phone no & empty dob	1. Enter valid username, phone no, and empty dob 2. Click register	Proper error must be displayed & prompt to register again.	User cannot register	Pass
4	Test with empty valid username phone no & empty dob such that user registration	.....	Empty valid username, phone no & empty dob	1. Enter empty valid username, phone no, and empty dob 2. Click register	Proper error must be displayed & prompt to register again	User cannot register	Pass
5	Test with empty valid username , valid phone no & valid dob such that user registration must get failed	.....	Empty valid username, valid phone no & valid dob	1. Enter empty valid username, valid phone no, and valid dob 2. Click register	Proper error must be displayed & prompt to register again	User cannot register	Pass

5.3.2 Integration Testing

After the unit testing, these testing were integrated together to perform a complete task and were tested again. These testing mainly emphasized to check whether the integrated part worked well or not. Separate development units that make up a component of the system are tested to ensure that they work together. This testing proceeds with top down approach and bottom up approach. In the top down testing the unit or module of the system were integrated one by one from the top to bottom as tested as a single unit.

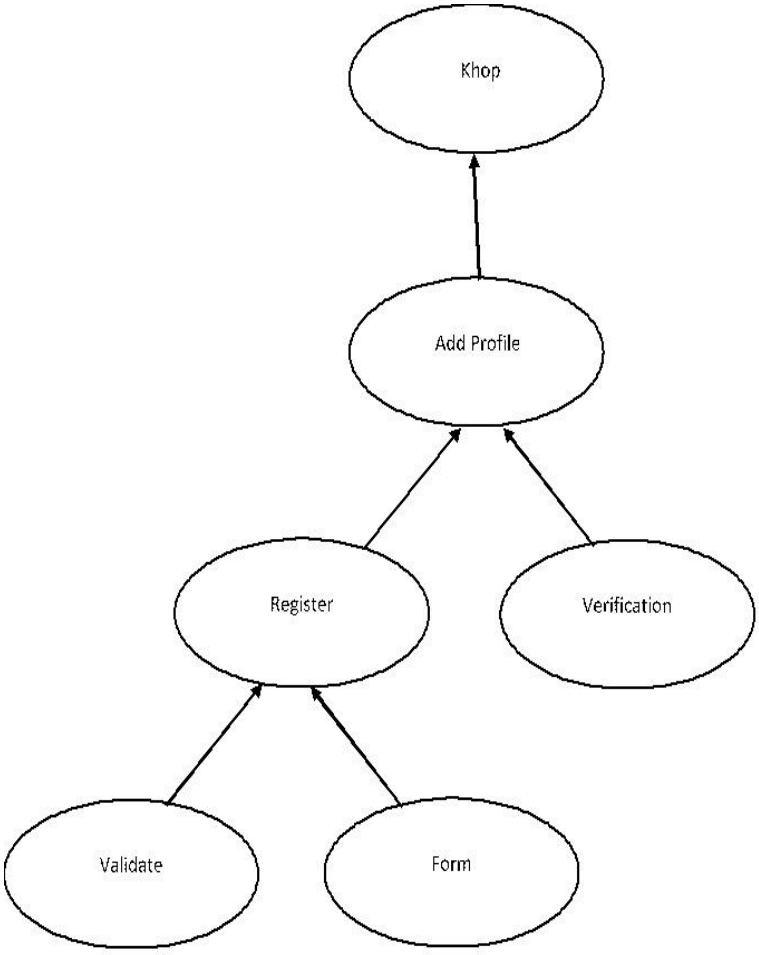


Figure 5.3.2: Integration Testing of Khop

5.3.3 System Testing

In this testing we checked if the functional requirement of the system were met or not. Once all the modules were developed and integrated, the system as a whole was tested to ensure that the system is functioning correctly and efficiently. This testing was done before and after the system was put in place. This test is very helpful to determine the problems and bugs that have been escaped during the integration testing.

5.3.4 Acceptance Testing

User acceptance is a type of testing performed by the Client to certify the system with respect to the requirements that was agreed upon. This is beta testing of the product & evaluated by the actual end users. The main purpose of this testing is to validate the end to end business flow.

5.4 Support

For the support we simply recognize the event that handle the application running on the system. In support all the performance of the system that include to be modify or change will take place as per the system assure. In support our system will check if any bugs are there or not and make changes to the application. Then update the system bug free and run the system again.

Chapter 7: Future Plan and Conclusion

7.1 Future Plan

It simply means what are the new feature that are to be included in the application to improve its specs. In future our application will run on IOS and WINDOWS platform as well. Khop application will be more secure with the verification through the phone number of the user that through the verification of one can be done only one time. The search will be available so they can view about the information of different vaccine and also contribute that information in the surrounding. Some of the security measures will be applied in the application are:

- Mobile verification
- User login
- SMS Notification alert

7.2 Conclusion

The project is built on Apache Cordova framework. Khop is an android based application software to give the information on the vaccine necessary for the child. This application help on the major source of knowledge and information of different vaccine and its tentative value of information which gone be help full to may their child to achieve a healthy life. Khop help the user to add the profile of their child and it generate a list of reminder according to their date of birth. The application also helps the user to view the location of vaccine center that they can visit to get more information or the vaccine necessary for the child. Information that they get from the application will be useful and that information can be share amongst all. Khop user can add more than one profile also and tent to back and forth both of them. Thus Khop is the way of delivering the information to all who are unaware about the consequences about it.

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Annexes

Annexes-1: Source Code

Homepage

```
<!DOCTYPE HTML>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<meta name="viewport" content="user-scalable=no, initial-scale=1.0, maximum-scale=1.0 minimal-ui"/>
<meta name="apple-mobile-web-app-capable" content="yes"/>
<meta name="apple-mobile-web-app-status-bar-style" content="black">
<link rel="icon" type="image/png" href="images/splash/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="images/splash/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="images/splash/favicon-16x16.png" sizes="16x16">
<link rel="shortcut icon" href="images/splash/favicon.ico" type="image/x-icon" />
<title>Khop</title>
<link href="styles/style.css"          rel="stylesheet" type="text/css">
<link href="styles/framework.css"      rel="stylesheet" type="text/css">
<link href="styles/font-awesome.css"   rel="stylesheet" type="text/css">
<link href="styles/animate.css"        rel="stylesheet" type="text/css">
<link href="css/custom.css"            rel="stylesheet" type="text/css">
<script type="text/javascript" src="cordova.js"></script>
<script type="text/javascript" src="scripts/jquery.js"></script>
<script type="text/javascript" src="scripts/jqueryui.js"></script>
<script type="text/javascript" src="scripts/framework-plugins.js"></script>
<script type="text/javascript" src="scripts/custom.js"></script>
<script type="text/javascript" src="js/khop.js"></script>
<script type="text/javascript" src="js/backbutton.js"></script>
<script type="text/javascript" src="js/Toast.js"></script>
<script type="text/javascript" src="js/language.js"></script>
<script type="text/javascript" src="js/db/vacinfo.js"></script>
<script type="text/javascript" src="js/db/profilelist.js"></script>
```

```
<script type="text/javascript" src="js/ageCalculator.js"></script>
</head>
<body class="left-sidebar">
<div id="preloader">
   <div id="status">
   </div>
</div>
<div class="gallery-fix"></div>
<div id="header-fixed" class="header-style-1">
   <a class="header-1 open-left-sidebar" href=""><i class="fa fa-2x fa-navicon"></i></a>
   <a class="header-logo" href="#"><img src="img/header-logo-new.png" alt="img"></a>
   <div class="right-menu-button">
      <a class="header-2"><i class="fa fa-2x fa-ellipsis-v"></i></a>
      <div class="right-menu-ver" id="right-menu-ver" >
         <a href="settings.html">
            <li>
               <i class="fa fa-cog"></i>
               <em>Settings</em>
            </li>
         </a>
         <a href="about-khop.html">
            <li>
               <i class="fa fa-info-circle"></i>
               <em>About Khop</em>
            </li>
         </a>
      </div>
   </div>
</div>
```

```
    <!-- Button Starts -->
     <div class="float-button">
     <span class="height-fix">
       <a href="addprofile.html"><img src="img/plus-icon.png"></a>
       </span>
     </div>
    <!-- Button Ends -->
<div class="all-elements">
    <div class="snap-drawers">
       <div class="snap-drawer snap-drawer-left">
          <div class="sidebar-header-left">
             <a href="#"><img src="img/header-logo-new.png" alt="img"></a>
             <a class="close-sidebar" href="#"><i class="fa fa-times"></i></a>
          </div>
          <p class="sidebar-divider">Navigation</p>
          <div class="sidebar-menu">
             <a class="menu-item menu-item-active" href="index.html">
                <i class="fa fa-home"></i>
                <em>Home</em>
                <i class="fa fa-circle"></i>
             </a>
             <a class="menu-item" href="our-team.html">
                <i class="fa fa-users"></i>
                <em>Our Team</em>
                <i class="fa fa-circle"></i>
             </a>
             <a class="menu-item" href="vaccinecenter.html">
                <i class="fa fa-map-marker"></i>
                <em>Vaccine Center</em>
                <i class="fa fa-circle"></i>
             </a>
             <div>
```

```
      <a class="menu-item" href="settings.html">
        <i class="fa fa-cog"></i>
        <em>Settings</em>
        <i class="fa fa-circle"></i>
      </a>
    </div>
    <a class="menu-item close-sidebar" href="#">
      <i class="fa fa-times"></i>
      <em>Close</em>
      <i class="fa fa-circle"></i>
    </a>
  </div>
  <p class="sidebar-divider">Let's get social</p>
  <div class="sidebar-menu">
    <a class="menu-item" href="https://www.facebook.com/AntarikshaBhandari">
      <i class="fa fa-facebook"></i>
      <em>Facebook</em>
    </a>
    <a class="menu-item" href="https://www.twitter.com/TheAntariksha">
      <i class="fa fa-twitter"></i>
      <em>Twitter</em>
    </a>
    <a class="menu-item" href="https://plus.google.com/+AntarikshaBhandari">
      <i class="fa fa-google-plus"></i>
      <em>Google Plus</em>
    </a>
  </div>

  <p class="sidebar-divider">Contact Us</p>
  <div class="sidebar-menu">
    <a class="menu-item" href="tel:(+977) 984-214-6855">
      <i class="fa fa-phone"></i>
```

```
            <em>Call Us</em>
          </a>
          <a class="menu-item" href="sms:(+977) 984-214-6855">
            <i class="fa fa-comment-o"></i>
            <em>Text Us</em>
          </a>
          <a class="menu-item" href="mailto:theantariksha@hotmail.com?subject=Inquiry
Message">
            <i class="fa fa-envelope-o"></i>
            <em>Mail Us</em>
          </a>
        </div>
        <p class="sidebar-footer">&copy; 2016 SASS | All Rights Reserved</p>
      </div>
      <div id="content" class="snap-content">
        <div class="content">
        <div class="header-clear"></div>
        <!--Page content goes here, fixed elements go above the all elements class-->
          <div class="homepage-slider container-fullscreen">
            <div class="homepage-slider-transition" data-snap-ignore="true">
              <div class="homepage-slider-item">
                <img src="img/slider/img1.jpg" alt="img">
                <div class="overlay bg-black"></div>
              </div>
              <div class="homepage-slider-item">
                <img src="img/slider/img2.jpg" alt="img">
                <div class="overlay bg-black"></div>
              </div>
              <div class="homepage-slider-item">
                <img src="img/slider/img3.jpg" alt="img">
                <div class="overlay bg-black"></div>
              </div>
              <div class="homepage-slider-item">
```

```
            <img src="img/slider/img4.jpg" alt="img">
            <div class="overlay bg-black"></div>
        </div>
        <div class="homepage-slider-item">
            <img src="img/slider/img5.jpg" alt="img">
            <div class="overlay bg-black"></div>
        </div>
        <div class="homepage-slider-item">
            <img src="img/slider/img6.jpg" alt="img">
            <div class="overlay bg-black"></div>
        </div>
    </div>
    <a href="#" class="next-home-slider"><i class="fa fa-angle-right"></i></a>
    <a href="#" class="prev-home-slider"><i class="fa fa-angle-left"></i></a>
</div>
<div class="decoration"></div>
<div class="heading-style-1 container half-bottom">
    <a><i class="fa fa-user"></i></a>
    <h4>Profiles</h4>
    <div class="heading-block bg-red-dark"></div>
    <div class="heading-decoration bg-red-dark"></div>
</div>
<div class="decoration"></div>
<div class="one-third-responsive" id="profile-lists">
    <!-- <a href="our-team-antariksha.html" class="user-list-item profile-list-item">
        <strong>Antariksha Bhandari<br></strong>
        <em>Android Developer</em>
        <i class="fa fa-chevron-right"></i>
    </a>
    <div class="decoration"></div> -->
</div>
```

```
            <div class="footer">
               <p class="center-text">&copy; 2016 SASS | All Rights Reserved</p>
            </div>
         <!-- End of entire page content-->
         </div>
      </div>
   </div>
</div>
</body>
```

Profile Addition

```
<body class="no-sidebar">
<div id="preloader">
   <div id="status">
   </div>
</div>
<div class="gallery-fix"></div>
<div id="header-fixed" class="header-style-1">
   <a class="header-1" href="javascript:history.back()"><i class="fa fa-arrow-left"
style="font-size: 1.3em;"></i></a>
   <a class="header-logo" href="#"><img src="img/header-logo-new.png" alt="img"></a>
</div>
<div class="all-elements">
   <div class="snap-drawer">
      <div id="content" class="snap-content">
         <div class="content">
         <div class="header-clear-large"></div>
            <div class="heading-style-1 container half-bottom">
               <a href="#"><i class="fa fa-user"></i></a>
               <h4>Add Profile</h4>
               <div class="heading-block bg-red-dark"></div>
               <div class="heading-decoration bg-red-dark"></div>
            </div>
            <div class="container"> </div>

            <div>
               <form>
                  <div class="page-login full-bottom">
                     <div class="login-input">
                        <i class="fa fa-user"></i>
                        <input onfocus="if (this.value=='Child Name') this.value = "" onblur="if
(this.value==") this.value = 'Child Name"' type="text" value="Child Name" id="childname" >
                     </div>
```

```
                    <div class="login-date">
                        <i class="fa fa-calendar-o"></i>
                        <input class="set-today" type="date" placeholder="Date of Birth"
id="child_dob" >
                    </div>
                    <div class="login-password">
                        <i class="fa fa-phone"></i>
                        <input onfocus="if (this.value=='Contact No.') { this.value = ''; this.type =
'number'; }" onblur="if (this.value=='') { this.type = 'text'; this.value = 'Contact No.'; }"
type="text" value="Contact No." id="contactno" >
                    </div>
                    <a class="login-button button button-small button-green button-fullscreen
full-bottom" onclick="profileAddValid();">Save</a>
                </div>
            </form>
        </div>
</body>
```

Vaccine Schedule

```
<body class="no-sidebar">
<div id="preloader">
   <div id="status">
   </div>
</div>
<div class="gallery-fix"></div>
<div id="header-fixed" class="header-style-1">
   <a class="header-1 open-left-sidebar" href="javascript:history.back()"><i class="fa fa-
arrow-left" style="font-size: 1.3em;"></i></a>
   <a class="header-logo" href="#"><img src="img/header-logo-new.png" alt="img"></a>
</div>
<div class="all-elements">
   <div class="snap-drawers">
      <div id="content" class="snap-content">
         <div class="content">
         <div class="header-clear"></div>
         <div class="page-profile">
            <div class="page-profile-header container-fullscreen" id="profileInfo"
style="background: none; padding-top: 20px; padding-bottom: 20px;">
               </div>
<div class="heading-style-1 container half-bottom">
               <a><i class="fa fa-calendar"></i></a>
               <h4>Vaccine Schedule</h4>
               <div class="heading-block bg-red-dark"></div>
               <div class="heading-decoration bg-red-dark"></div>
            </div>
            <div class="container"> </div>
            <div class="decoration"></div>
            <div class="one-third-responsive" id="profile-lists">
            </div>
         </div>
```

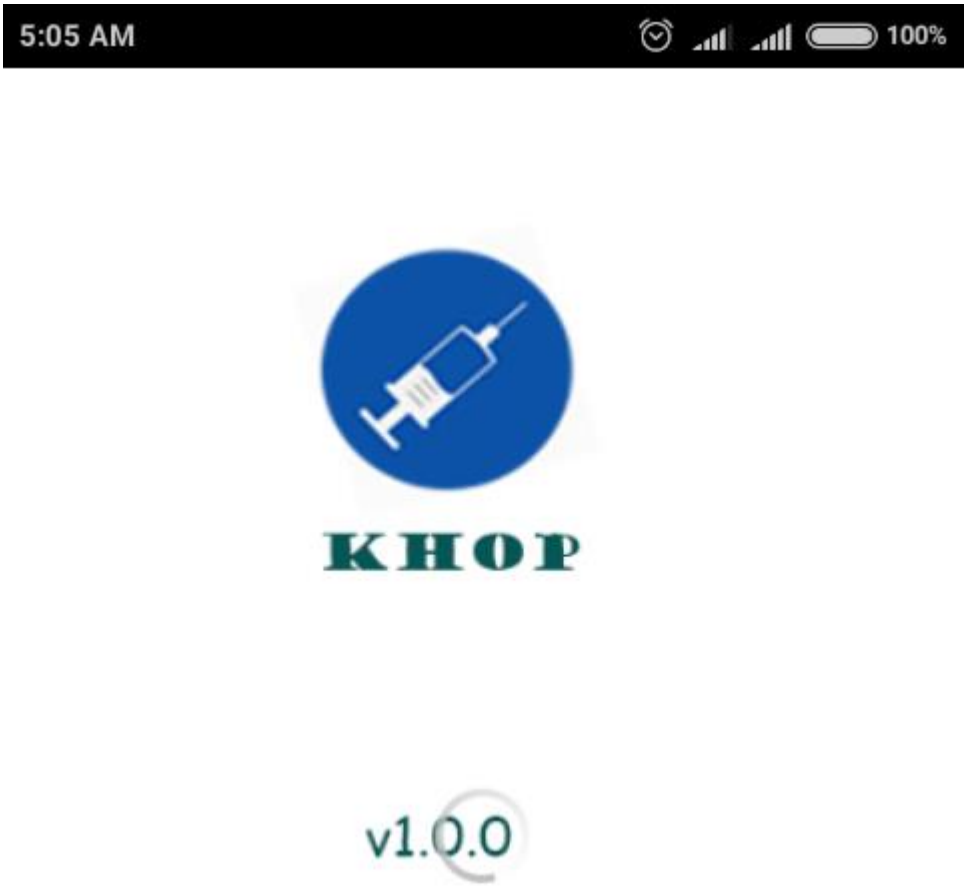
```
      </div>
    </div>
</div>
</body>
<script>
document.addEventListener("deviceready", OnDeviceReady, false)
      function OnDeviceReady(){
         var database = window.openDatabase("Khop", "1.0", "Khop", 5*1024*1024);
         database.transaction(populateDB, errorDB, successDB);
      }
      function populateDB(tx){
         var first = getUrlVars()["id"];


         function getUrlVars() {
            var vars = {};
            var parts = window.location.href.replace(/[?&]+([^=&]+)=([^&]*)/gi,
function(m,key,value) {
            vars[key] = value;
            });
            return vars;
         }
         tx.executeSql("SELECT * FROM vac_details WHERE vacd__child_id=? ORDER BY
vacd__duration ASC", [first], resultSuccess, resultError);
         tx.executeSql("SELECT * FROM user_info WHERE child_id=?", [first], succID, errID);
      }
      function errorDB(err){
         alert("Result Error: "+err);
      }
      function successDB(){
         //
      }
      function resultError(err){
         alert(err);
```

```
    }

    function resultSuccess(tx,response){
      var queryLength = response.rows.length;
      var profileInfo = document.getElementById('profileInfo');
      var vacSchedule = document.getElementById('profile-lists');

      var profileName = response.rows.item(0).vacd__child_name;
      var profileID = response.rows.item(0).vacd__child_id;
      var profileDOB = response.rows.item(0).vacd__dob;
      var ageString = getAge(profileDOB);

      var profileHeader = "<h3>"+ profileName +"</h3>\
          <em>Date of Birth: "+ profileDOB +"</em>\
          <em>Current Age: "+ ageString +"</em>\
          <em id=\"phoneno\"></em>\
          <div class=\"overlay bg-black\" style=\"background: #0c53aa; opacity:
1;\"></div>";

      profileInfo.innerHTML = profileHeader;
      var vaccineSchedule = "";
      for(var i=0;i<queryLength;i++){
        var vacDate = response.rows.item(i).vacd__vac_date;
        var remDate = dateRemaining(vacDate);
        if(remDate == "0 days"){
          vaccineSchedule += "<a href=\"vaccineinfo.html?id="+ profileID +"\"
class=\"user-list-item profile-list-item\">\
              <strong style=\"font-size: 16px;\">"+ response.rows.item(i).vacd__vac_name
+"<br></strong>\
              <em style=\"font-size: 14px;\"><font style=\"color: #c0392b;\">Vaccination
Date: </font><font style=\"color: #0c53aa;\">"+ response.rows.item(i).vacd__vac_date
+"</font></em>\
              <em><font style=\"color: #c0392b;\">Days Remaining: </font><font
style=\"color: #0c53aa;\">"+ remDate +"</font></em>\
              <i class=\"fa fa-check\" style=\"font-size: 1.1em;\"></i>\
```

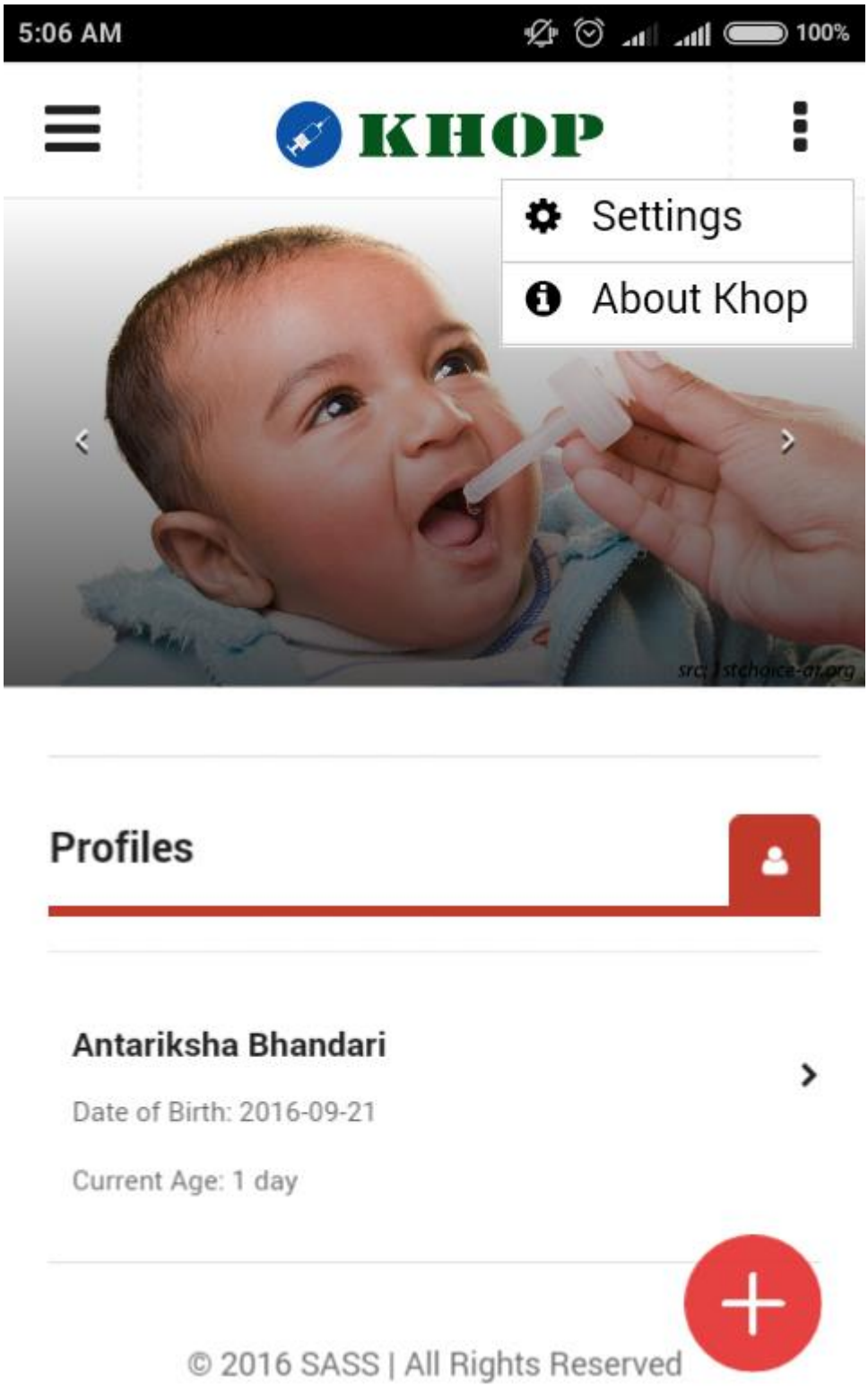
```
                </a>\
                <div class=\"decoration\"></div>";
            }
            else {
               vaccineSchedule += "<a href=\"vaccineinfo.html?id="+ profileID +"\"
class=\"user-list-item profile-list-item\">\
                <strong style=\"font-size: 16px;\">"+ response.rows.item(i).vacd__vac_name
+"<br></strong>\
                <em style=\"font-size: 14px;\"><font style=\"color: #c0392b;\">Vaccination
Date: </font><font style=\"color: #0c53aa;\">"+ response.rows.item(i).vacd__vac_date
+"</font></em>\
                <em><font style=\"color: #c0392b;\">Days Remaining: </font><font
style=\"color: #0c53aa;\">"+ remDate +"</font></em>\
                <i class=\"fa fa-calendar\" style=\"font-size: 1.1em;\"></i>\
                </a>\
                <div class=\"decoration\"></div>";
            }
        }
        vacSchedule.innerHTML = vaccineSchedule;
    }
    function errID(err){
        alert("Error: "+err);
    }
    function succID(tx, response){
        var contactno = response.rows.item(0).contactno;
        document.getElementById('phoneno').innerHTML = "Contact No.: "+contactno;
    }

</script>
```

Annexes-2: Snapshot

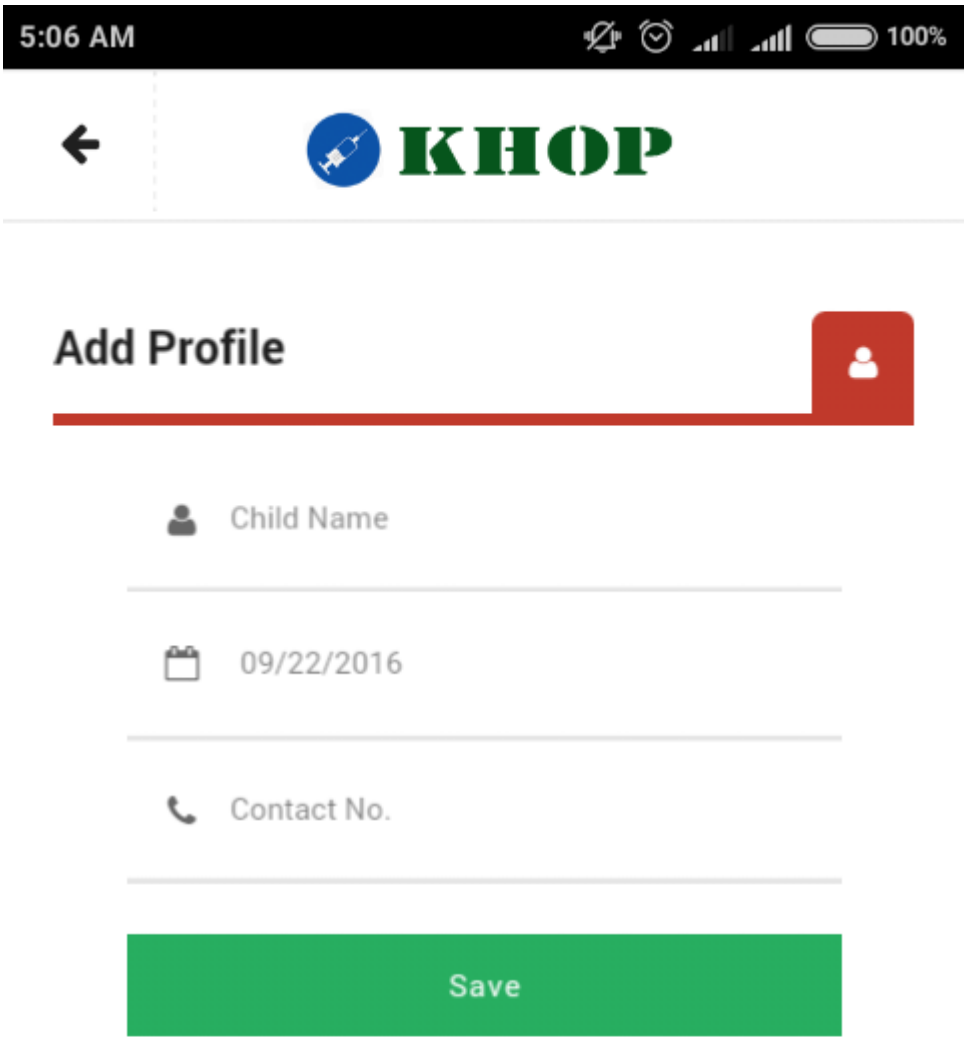
Splash Screen



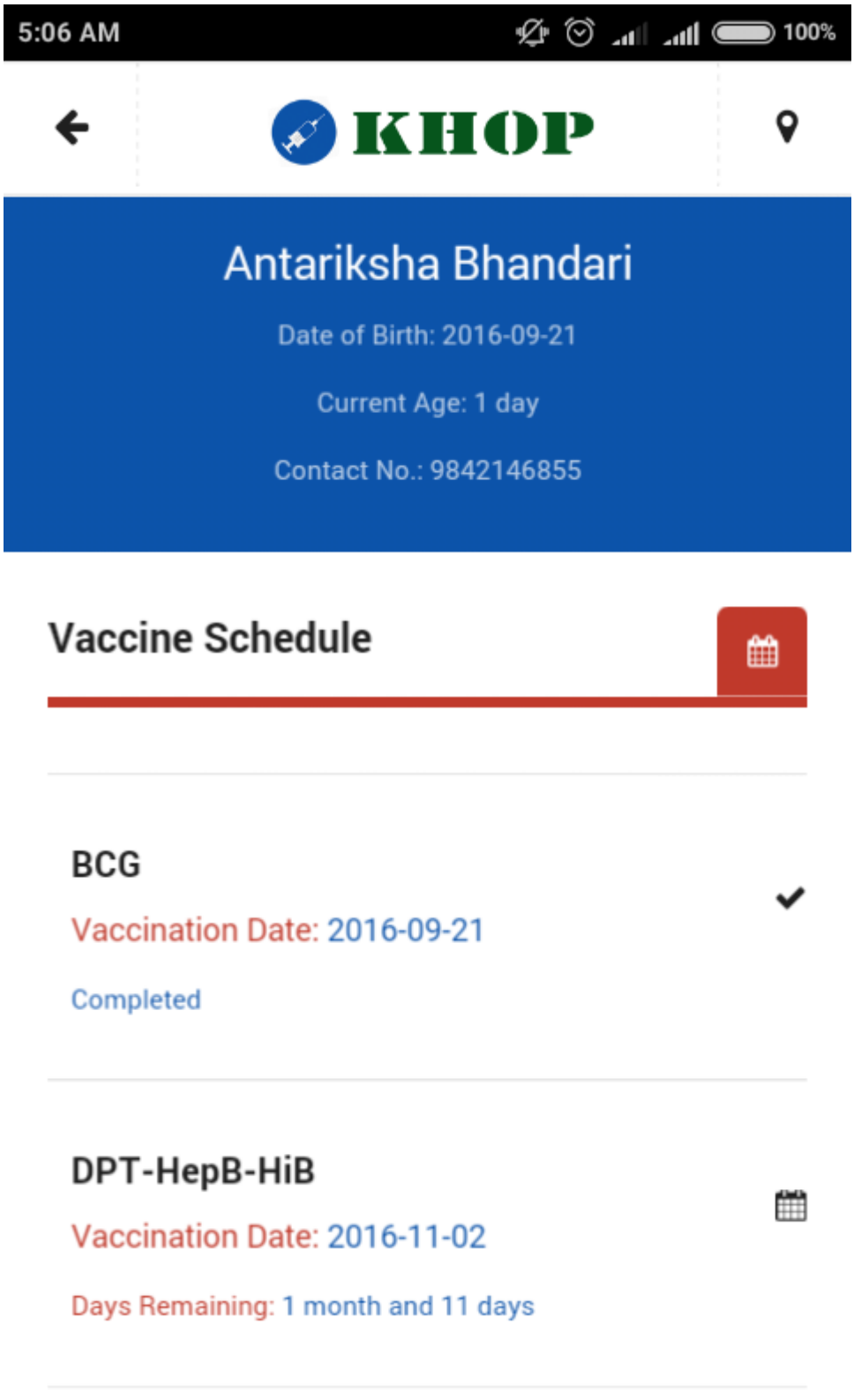
Homepage


5:06 AM
100%
KHOP
Settings
About Khop
Profiles
Antariksha Bhandari
Date of Birth: 2016-09-21
Current Age: 1 day
© 2016 SASS | All Rights Reserved

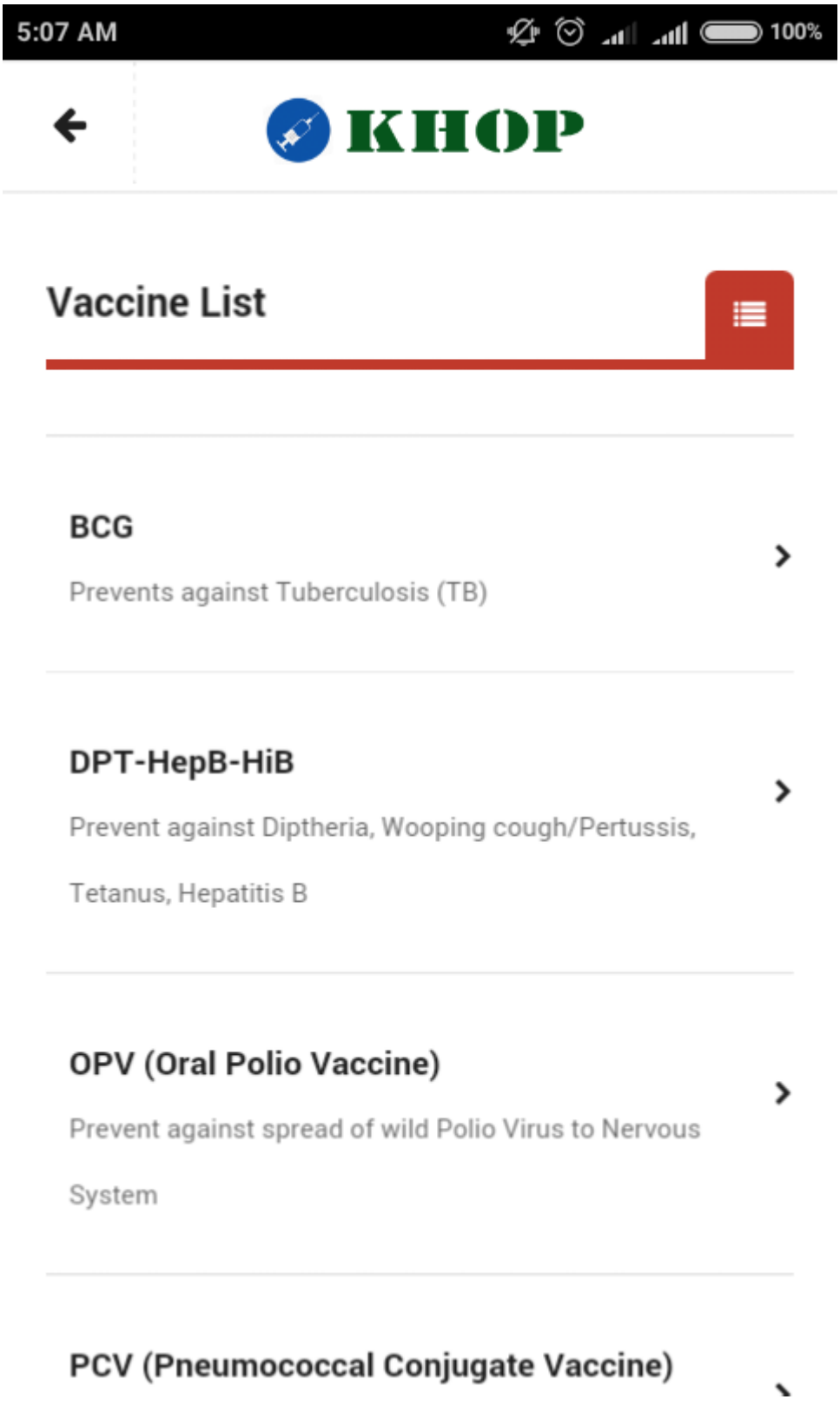
Add Profile


5:06 AM
100%
KHOP
Add Profile
Child Name
09/22/2016
Contact No.
Save

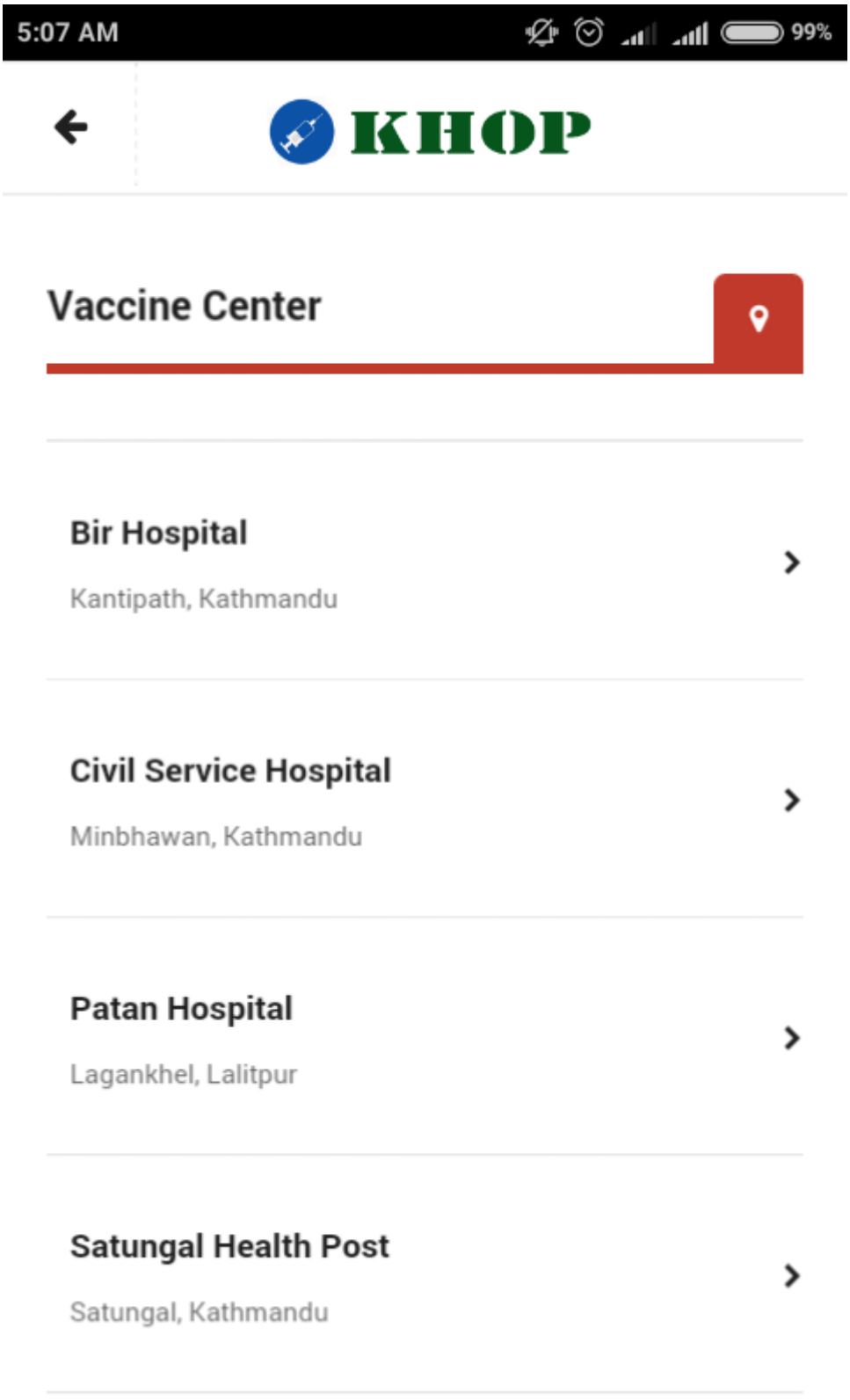
Vaccine Schedule



Vaccine List



Vaccine Center



Our Team Member