A Successful Journey: SAMPARK
An Android based Mobile App
for Medical & Telephone Directory
(June 2015-June2020)

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Document Number	Issue Number	Month / Year	Classification	Control Status
PRL/Sampark/062020	01	06/2020	General	Controlled

Copy Number	Type	Number of Pages
01	Report	8

Title: A Successful Journey SAMPARK An Android based Mobile App for Medical & Telephone Directory

Abstract	This document covers in brief the journey of Sampark an Android based Mobile Application in PRL
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Submitted To	Director, PRL
Keywords	Sampark, Mobile Application, Android, Telephone Directory, Medical Directory

1. Introduction

PRL has Contributory Health Service Scheme (CHSS) for healthy life of PRL employees, pensioners and their dependents. PRL employees often need to access different medical services and they use medical directory to search contacts of PRL medical panel doctors. The medical directory was available in two formats. (1) Online: on PRL website (2) Offline: in the printed format available with each employee. However, it was still inconvenient and less user-friendly to access it under various circumstances like unavailability of Internet, emergency medical requirements, etc. The update of latest information in the directory and it's printing is expensive and a tedious job. To overcome such issues, Sampark, an Android based mobile application was developed. Sampark leverages the benefits of smart phone technology and brings medical and telephone directories to mobile devices. Sampark doesn't require internet connections for its working. Only while initial sync and for subsequent data update, users need to tap on the "Sync Data" button under "Settings" tab. Additionally, Sampark can also notify users about various events/updates happening in PRL.

2. Sampark Architecture

Sampark is a combination of an Android app for users and a web interface for data maintenance. The web interface is given to the medical cell and telephone exchange to update the data whereas mobile application is installed by employees in their smart phones. Sampark also fetches individual's data for telephone directory from intranet portal. Employees can pull latest data from mobile application (Settings->Sync) for which Internet is required. Once the latest data is pulled from server, it remains in the phone for offline access.

3. Installation and Activation of Sampark in smart phones

Sampark android installer file (sampark.apk) has been kept on intranet portal. Employees can download it and install in it his/her Android based phones. Employees have to first register their mobile phone into intranet portal then only he/she can activate Sampark in his/her mobile phone. The registration process is online and hassle-free. Currently, Sampark 1.1 is installed on mobile phones which can generate notifications for individual employees to notify him/her about his/her Leave Details, canteen consumption, daily Hindi words, any payment sanctioned, etc.

4. Technology Transfer to Institute of Plasma Research (IPR), Gandhinagar

The Sampark app was also provided to Institute of Plasma Research (IPR) - Gandhingar as technology transfer. The app was customized as per IPR needs and it was given along with source code to IPR. It is successfully running at IPR. The appreciation letter received from IPR is shown below.

▽ Thank you

From: Raju Daniel
Date: 03/01/2017-15:55:05 (03:55:05 PM IST)
To: Girish Padia   Jigar Raval

Text (1 KB)
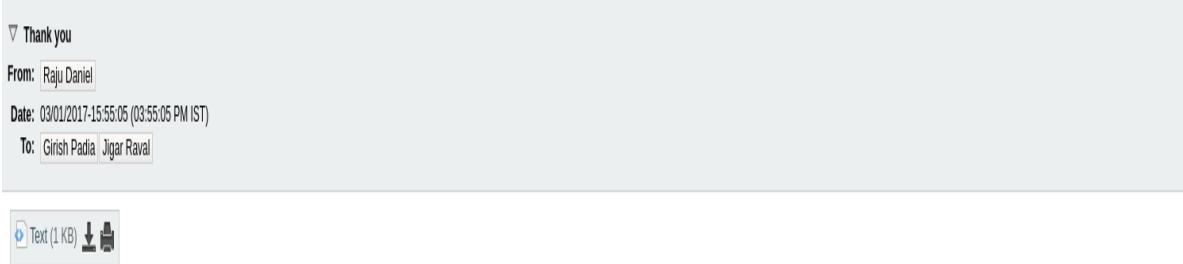
Dear Mr. Raval, Dear Mr. Padia,

I would like to thank you for helping us to develop and install the Mobile App for IPR. It is excellent development and we are really happy to have it here at IPR.

I, once again, thank you for all your supports and efforts in this regard and hope that our computer center colleagues (especially, Hemant) would work with you to develop new features jointly.

With Regards,
Raju

5. **About Sampark**

    The app is divided into four segments:

(a) **Medical:** This part contains details of PRL's medical directory. All empaneled doctors are shown as per their specialization. Employee can tap on any specialization and get the list of the doctors. Then, employee can tap on any doctor name and get doctor's contact details. Employees can directly call to the doctor by tapping on doctor's contact number (call charges apply). There is a search facility also where employees can search doctor by his/her name, location of doctors, etc.
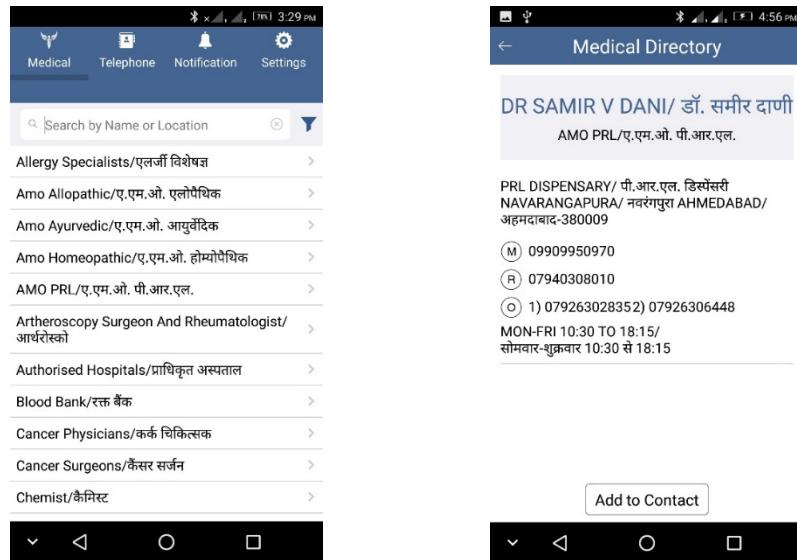
(b) **Telephone:** This part contains contact details of all employees of PRL along with common facilities numbers. Employee can also search in the telephone directory by name or contact number.
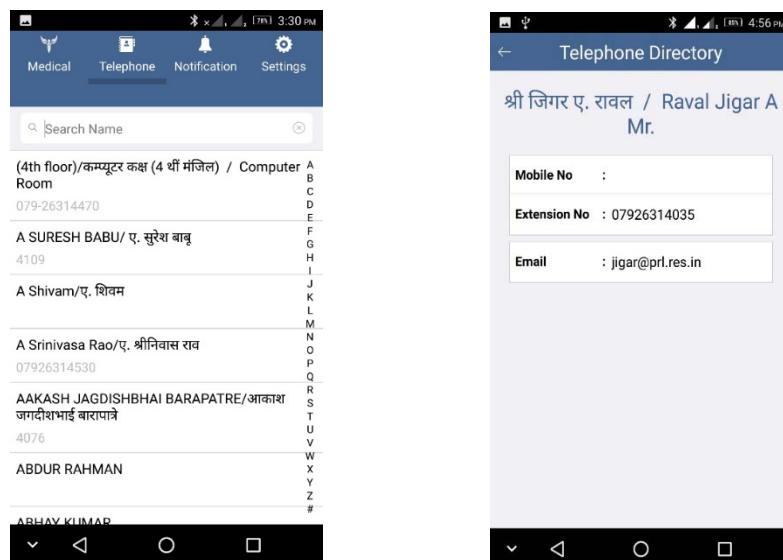
(c) Notification: This part of is very important where employees receive all the notification. Employees can delete the notification also. Each notification comes to Sampark application with an expiry date after which the notification will be deleted automatically from the application.
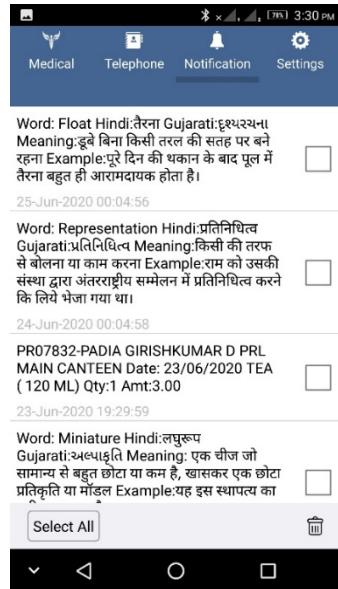

(d) Settings: This screen is used to sync latest data from server and requires internet connection. Employee can change look and feel of application by changing the color of the application.
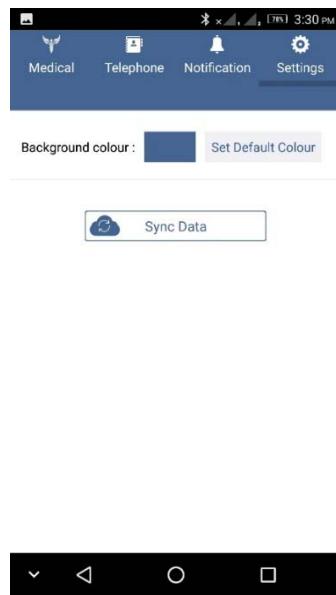
6. Statistics

At present, there are more than 400 registered users of Sampark Application. Sampark also send various notifications related to Leave Details, Email Password Expiry Notification, Canteen Consumption and TA/DA Notifications are also sent to respective registered PRL Employees. We are sending Hindi word daily to Sampark Users, which is more than 1000 different words so far.

Leave Details Notification

Email Password Expiry Notfication

Canteen Consumption Notification

TADA - Notification
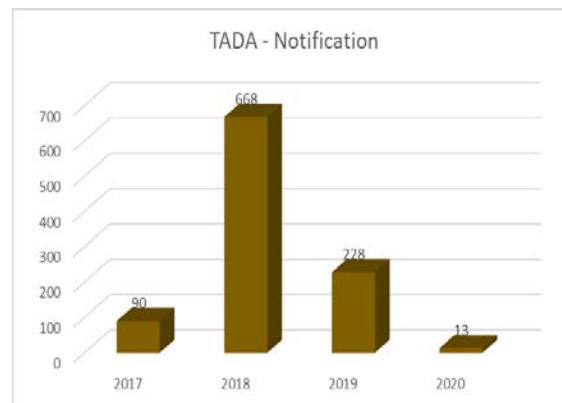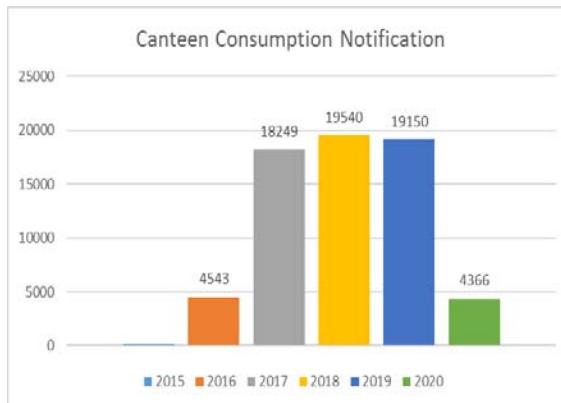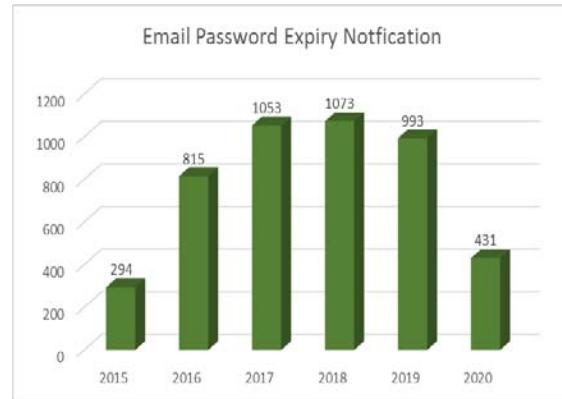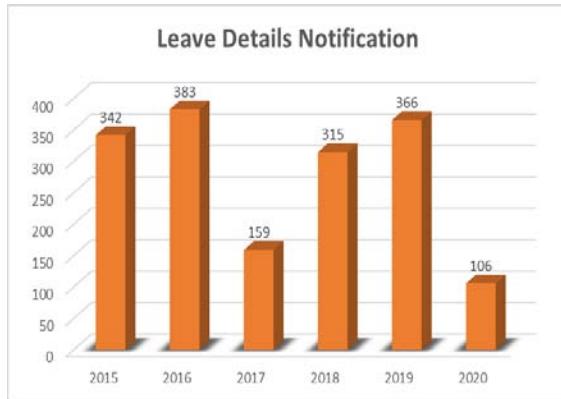
7. Inauguration Media Coverage

The Sampark software was formally unveiled by Late Prof. U R Rao, Chairman of PRL Council of Management on 26/June/2015.

Sampark Inauguration by Late Prof. U R Rao

Presentation on Sampark Mobile App

Media Coverage – India Express (27/June/2015)