

THE MILKMAN

A PROJECT REPORT

Submitted by

SAIVARSHINI RAVICHANDRAN 2016115083

ARUN KUMAR G 2016115009

AJITHA GOMATHY A 2016115005

submitted to the Faculty of

INFORMATION AND COMMUNICATION ENGINEERING

in partial fulfillment for the award of the degree

of

BACHELOR OF TECHNOLOGY

in

INFORMATION TECHNOLOGY



DEPARTMENT OF INFORMATION SCIENCE AND TECHNOLOGY

COLLEGE OF ENGINEERING, GUINDY

ANNA UNIVERSITY

CHENNAI 600 025

MONTH YEAR

ABSTRACT

India is one of the highest milk producing countries. With the increase in population, consumers are growing day by day. Due to the varying milk requirements of the people, it becomes difficult for the milkmen to keep track of everyones varying needs. Also, with the growth in milk production, there is a lack of an efficient mechanism to collect milk from the producers, i.e., farmers. How can this be made more efficient using technology?

Our project aims to make the milk collection and distribution better by building an application for the large-scale cooperative societies like Aavin that collect milk from farmers, package them and sell them to consumers. Through our application, the consumers will be able to make changes to their daily milk requirements. Also the milk producers, i.e., farmers, will be able to benefit by selling their milk in a quick and efficient manner.

This application will provide interface to its customers, where they will be able to update their requirements on a regular basis. In addition to this, they will also be able to track their consumption. The farmers who produce milk can sell it to the society as and when theywant, by listing in the app which will be collected by one of the distributors. The distributors perform the processes of both collection and distribution a The administrators will be able to monitor other users and the application will have provisions to track location of the distributors on a lively basis.

TABLE OF CONTENTS

	ABSTRACT	ii
1	INTRODUCTION	1
	1.1 OVERVIEW	1
2	DESIGN OF THE PROJECT	3
3	IMPLEMENTATION OF THE PROJECT	5
	3.1 VIEW OF FIGURES	5
4	CONCLUSION AND FUTURE WORK	20
	REFERENCES	21

CHAPTER 1

INTRODUCTION

In today's era, there are many cities which are working on transforming themselves into Smart Cities. If the city is going to be called as Smart City, then it should have all possible advancements in the sector of smart technology. Improving efficiency in agriculture sector is one of the difficult and most challenging jobs. Milk, being considered to be a staple diet among Indians, there is a lack of efficient milk delivery system. Through an android application, with one click the farmers will also be able to sell their products and the consumers will be able to receive their requirements at an ease.

Our android application can help to communicate between the farmer, distributor and customer which is implemented in this project. Android application is designed in such a way that time complexity will be minimized extensively. This is achieved by exchanging only the required data with server in order to minimize the traffic and loss of data packets in the process of delivery. With the help of cutting edge technology and keeping the goal in mind we have developed this application. It is also an attempt to participate actively in the process of transforming into smart city and make required services more accessible.

1.1 OVERVIEW

A user can register into the application by providing their address and other details. They can update their milk requirements on a regular basis and this will get recorded in the history. They can also track their consumption, bills, check reports, change their residential address (if they are moving to a new location) and file complaints on distributors, if necessary. The farmers will

also have facilities provided to the consumers, such as being able to buy milk if necessary in addition to selling, being able to track bills, transactions, etc.

CHAPTER 2

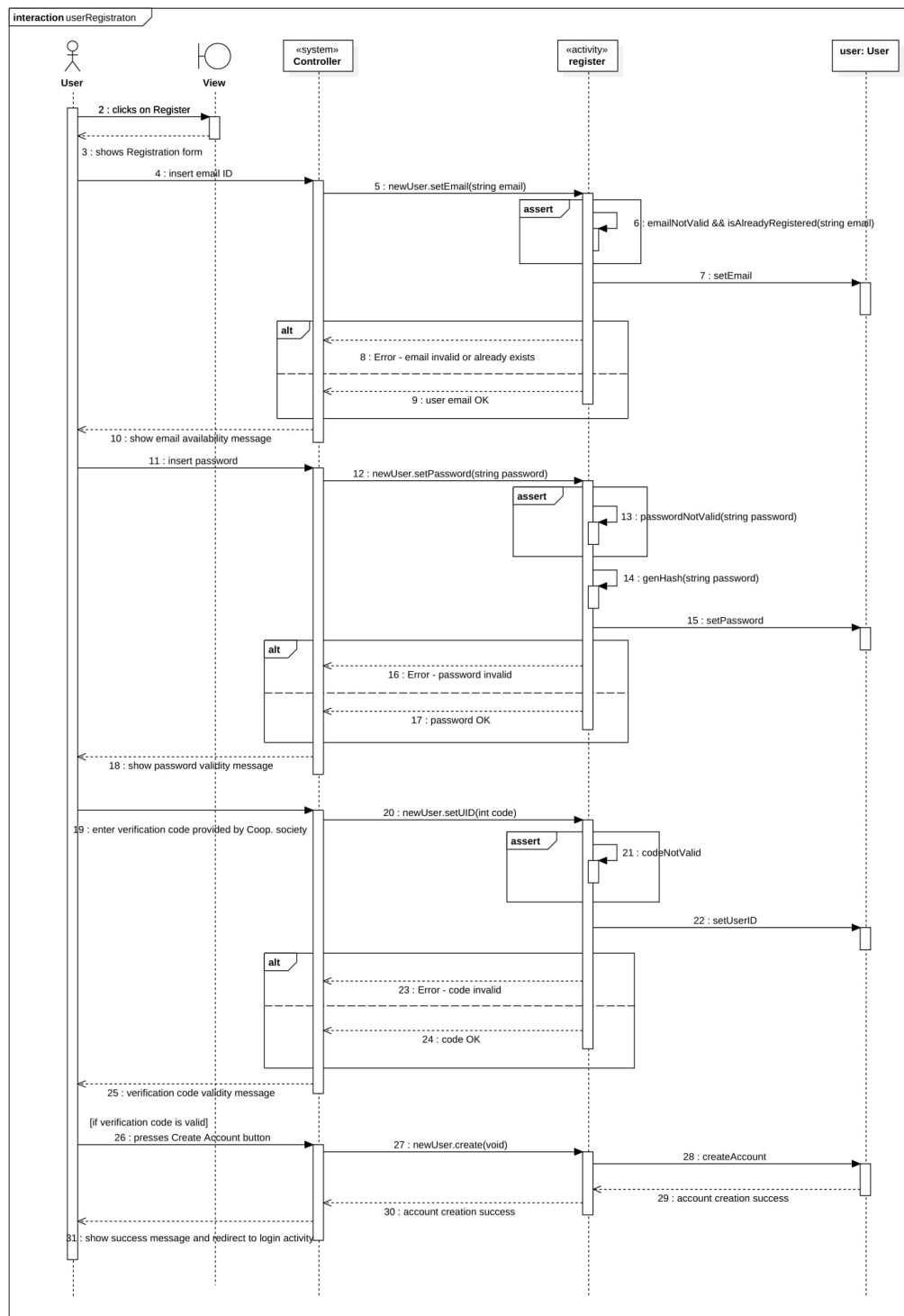
DESIGN OF THE PROJECT

Project design is an early phase of the project where a projects key features,structure,criteria for success and major deliverables are all planned out.The point is to develop one or more designs which can be used to acheive the desired project goals. We have delivered the three main design models which depicts the overall architectural structure and flow of our project in an interactive way.

System architecture - Application architecture is the high level structure of an application system. Its the process of defining a structured solution that meets all of the technical and operational requirements.

State diagram - It describes the behaviour of a single object in response to series of events in the system.It depicts the dynamic flow from state to state of particular object within system.

Sequence diagram - A sequence diagram is an interaction diagram that shows how objects operate with one another and in what order.It shows object interations arranged in time sequence.



CHAPTER 3

IMPLEMENTATION OF THE PROJECT

On launching the application, the user will be able to register by providing their details and user token provided by their distributor. With this, the user will be able to login and specify their requirements. They can update this regularly. The user will be prompted to enter their address and with the help of google maps API, the user will be able to point to their accurate location.

3.1 VIEW OF FIGURES

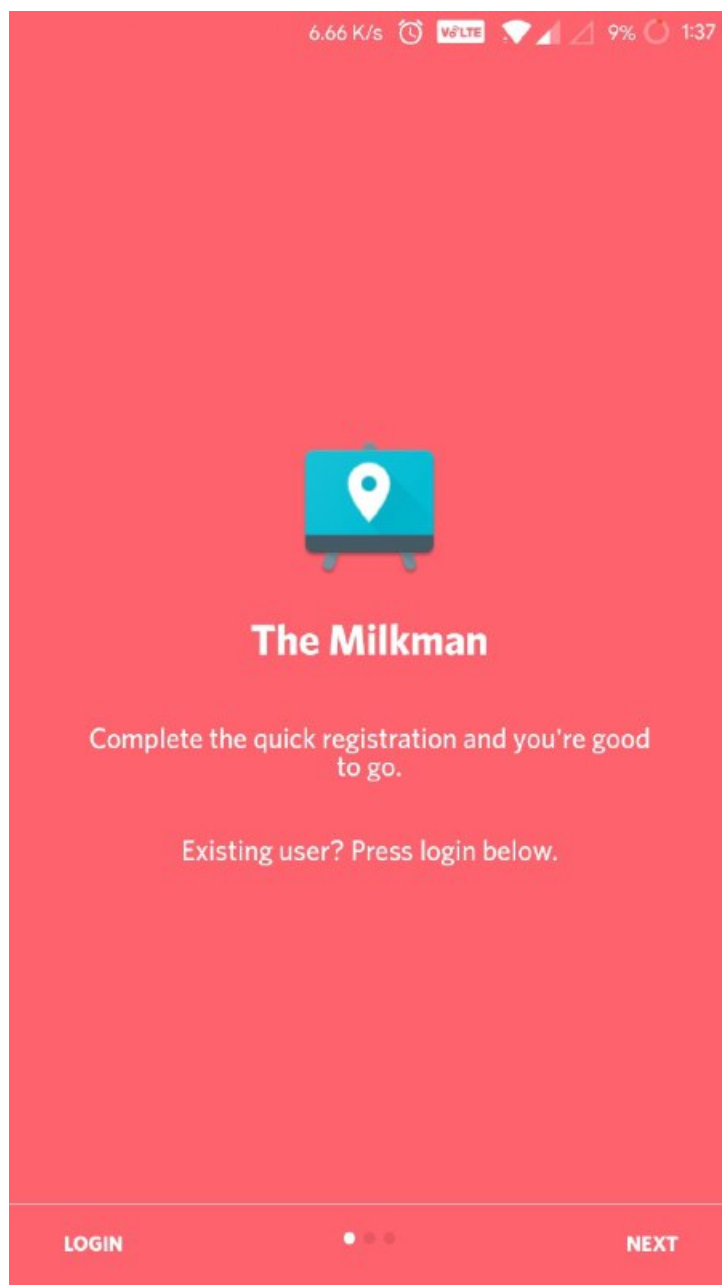


Figure 3.1: Home page

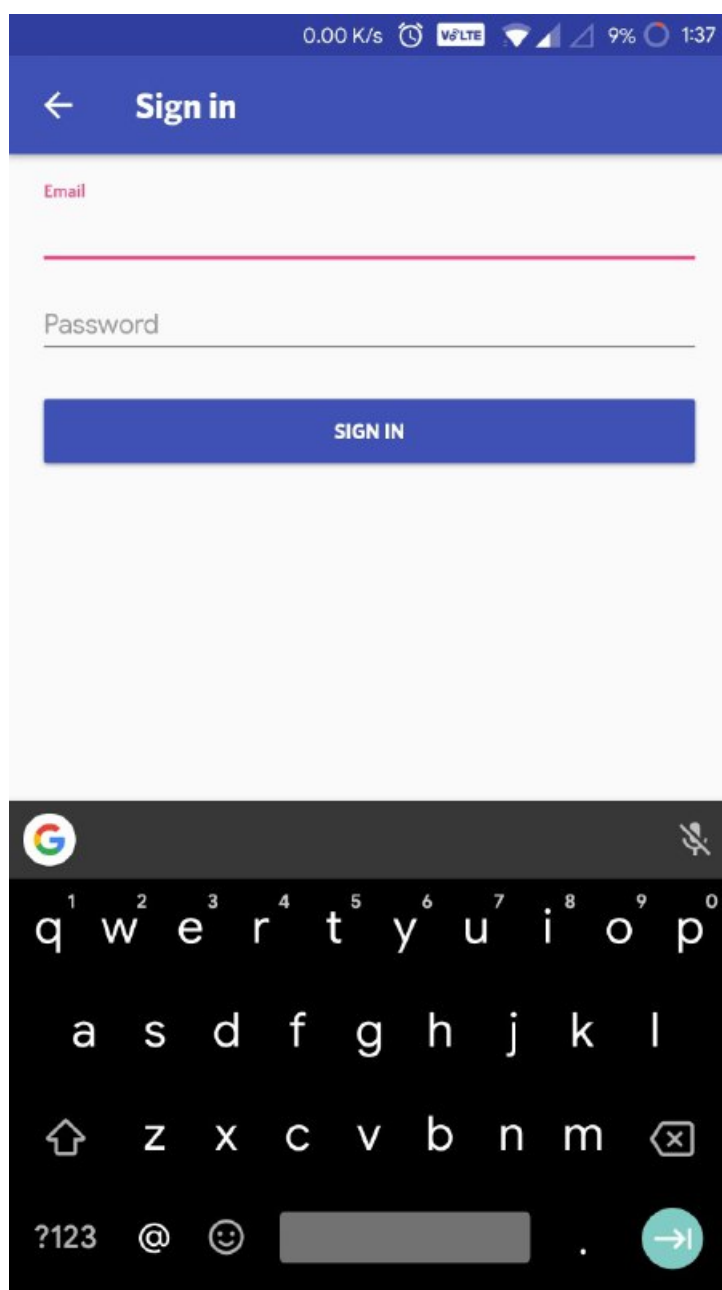


Figure 3.2: Sign in!

0.00 K/s ⌚ 5G/LTE 📶 8% 🔋 1:40

YOUR DETAILS

Please provide exact details for effective milk distribution

Enter your name

Enter your email ID

Token (provided by your distributor)

Enter your token

Address

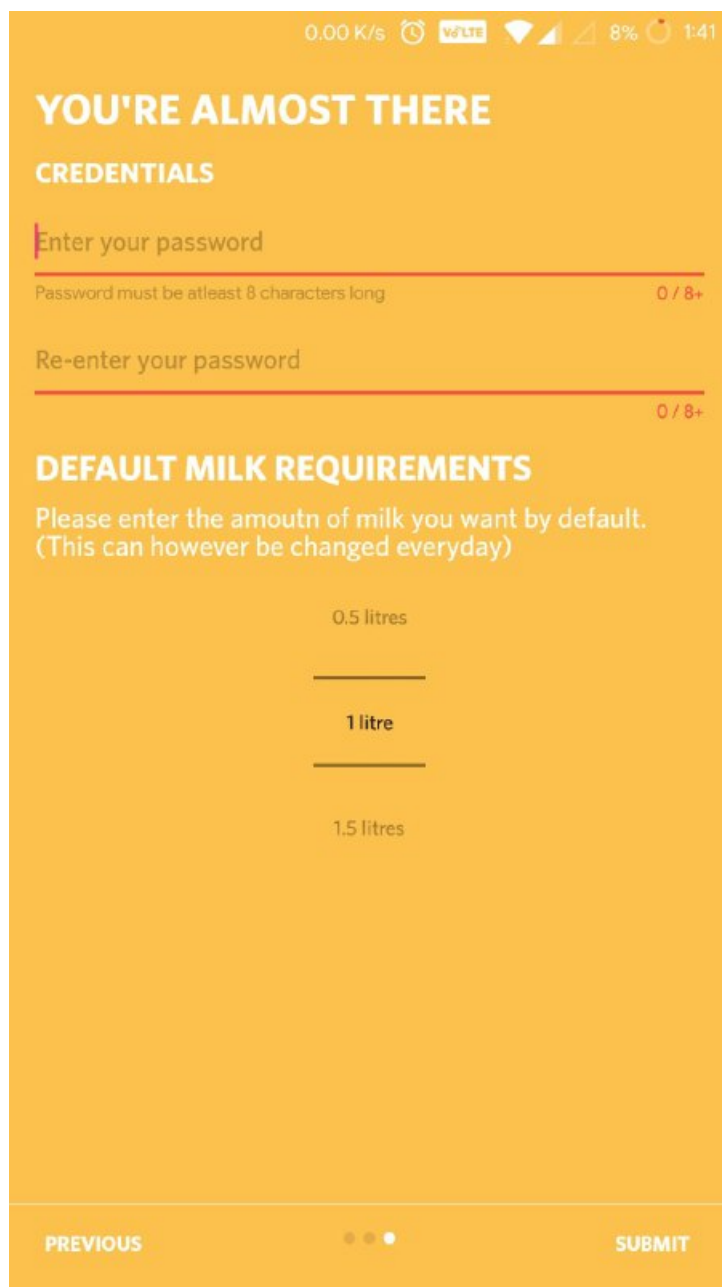
Door No., Floor, Flat No.

Street Address

Area Address

PREVIOUS ● ● ● NEXT

Figure 3.3: Registration



0.00 K/s ⌚ 4G LTE 📶 8% 🔋 1:41

YOU'RE ALMOST THERE

CREDENTIALS

Enter your password

Password must be atleast 8 characters long 0 / 8+

Re-enter your password

0 / 8+

DEFAULT MILK REQUIREMENTS

Please enter the amounth of milk you want by default.
(This can however be changed everyday)

0.5 litres

1 litre

1.5 litres

PREVIOUS ● ● ● SUBMIT

Figure 3.4: Login and requirements

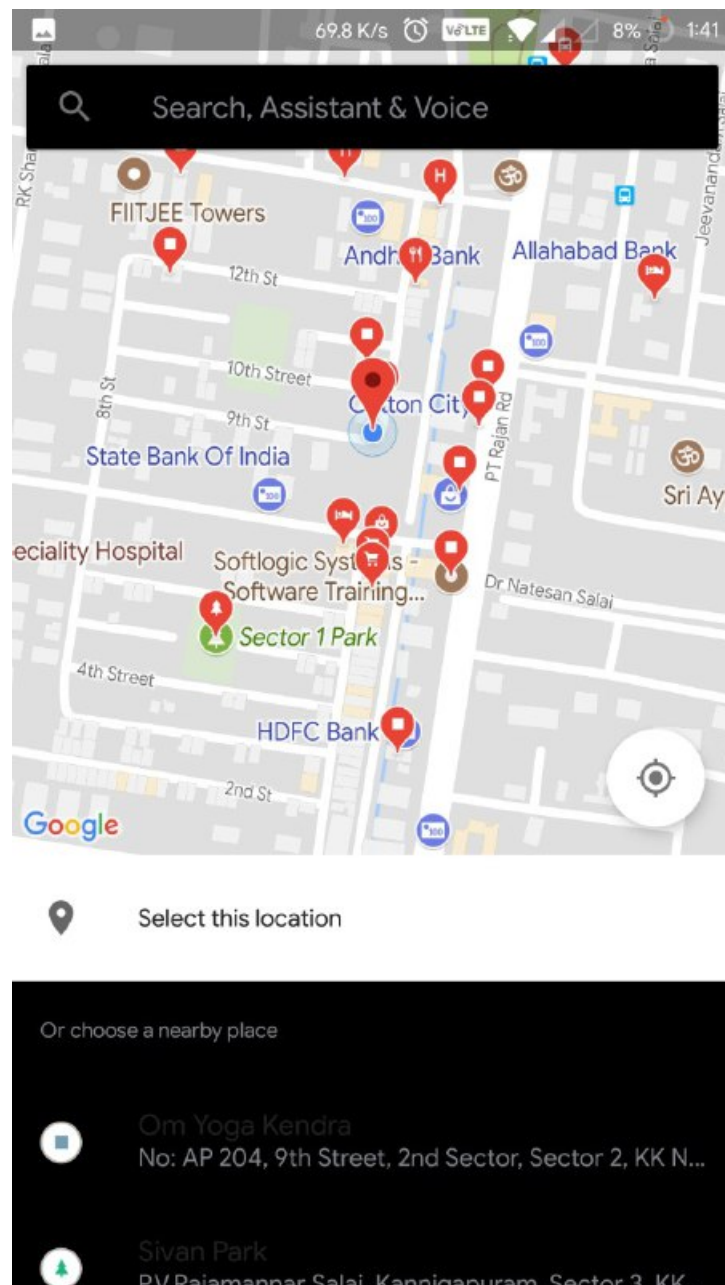


Figure 3.5: Users latitude and longitude

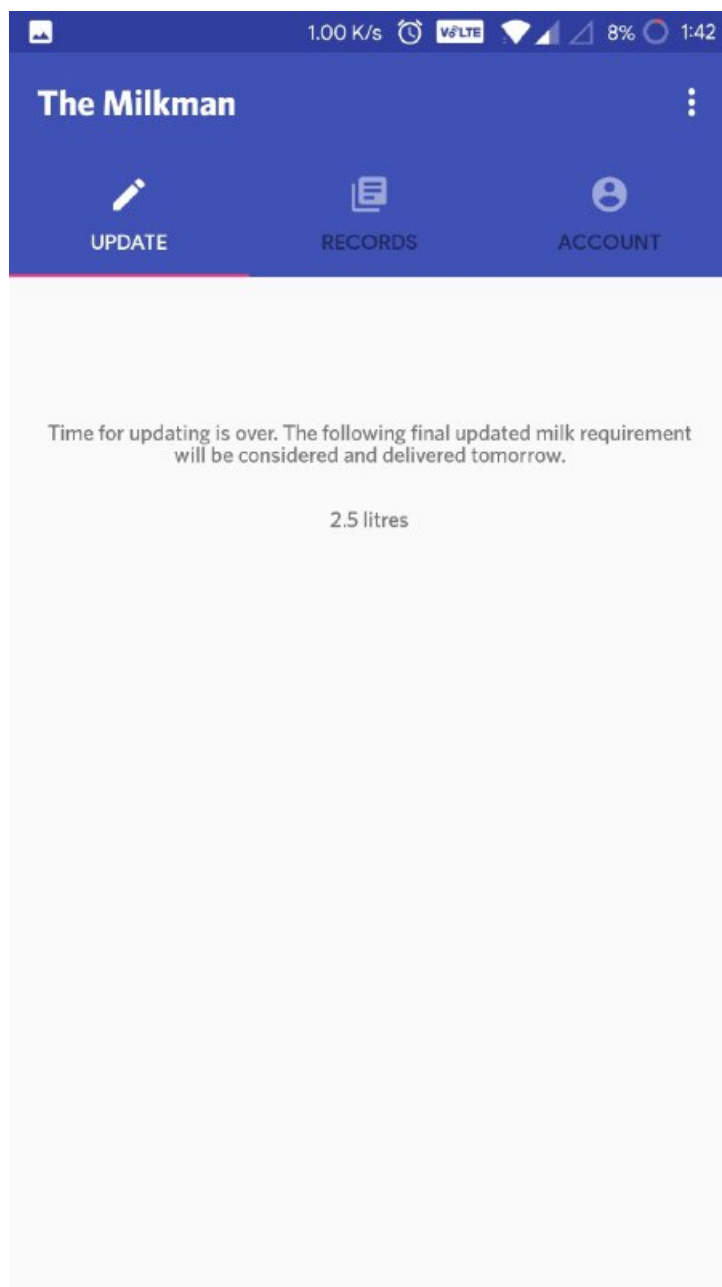


Figure 3.6: Dashboard

The Milkman

0.00 K/s 0.00 K/s V6LTE 8% 1:42

UPDATE RECORDS **ACCOUNT**

Edit account details

Please provide accurate details

Enter your name
Ram

Address

Door No., Floor, Flat No.
#1

Street Address
First Floor

Area Address
2nd Street

Default Requirement (in litres) (default amount delivered if requirement is not changed in the CHANGE tab)

Enter default requirement
2.5

UPDATE ACCOUNT

Figure 3.7: User details

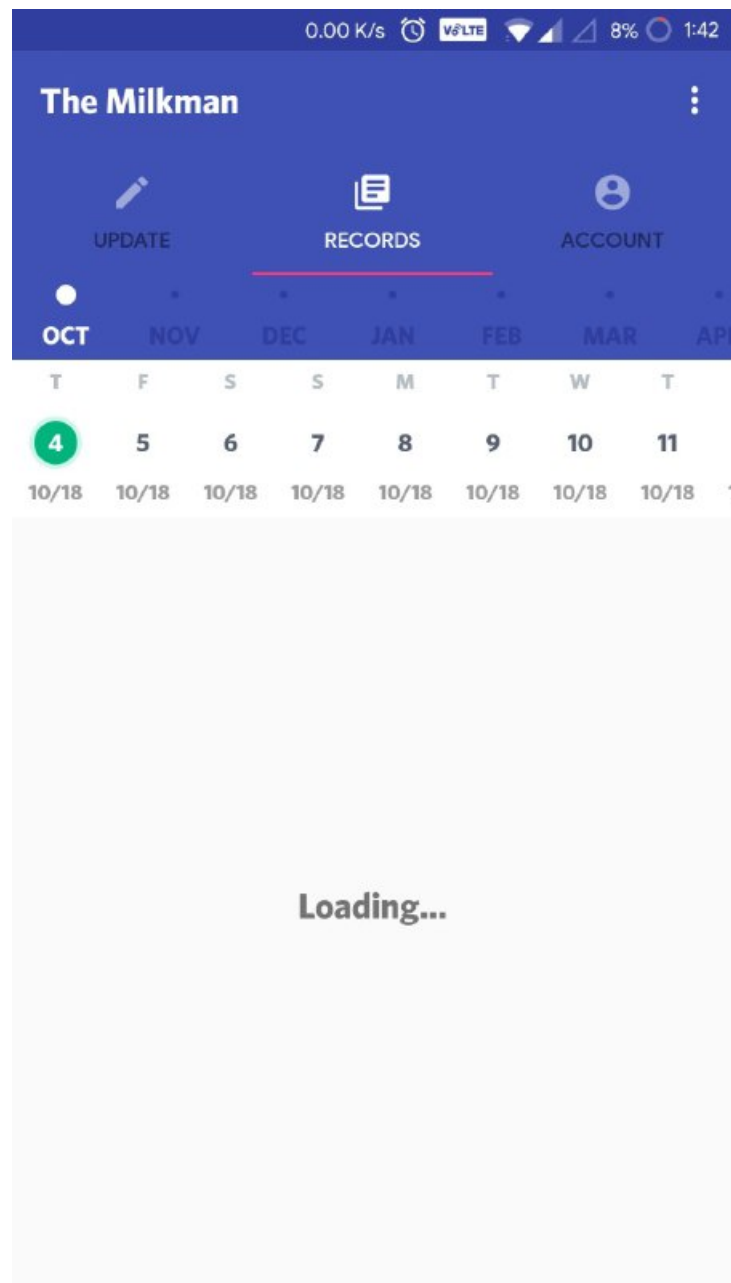



Figure 3.8: Consumption History

REPORT

DistributorName

Mohan ▼

Complaint

Not Delivered on time  ▼

SUBMIT

Figure 3.9: Complaints

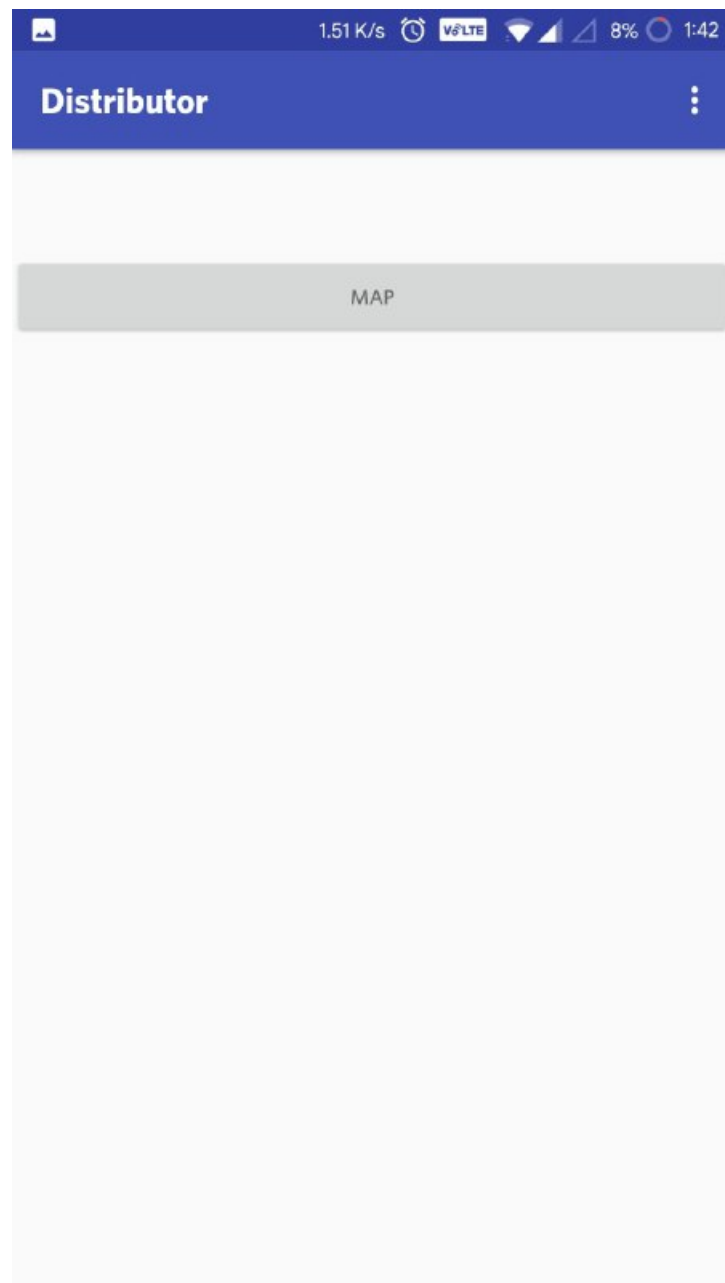


Figure 3.10: Distributor's interface

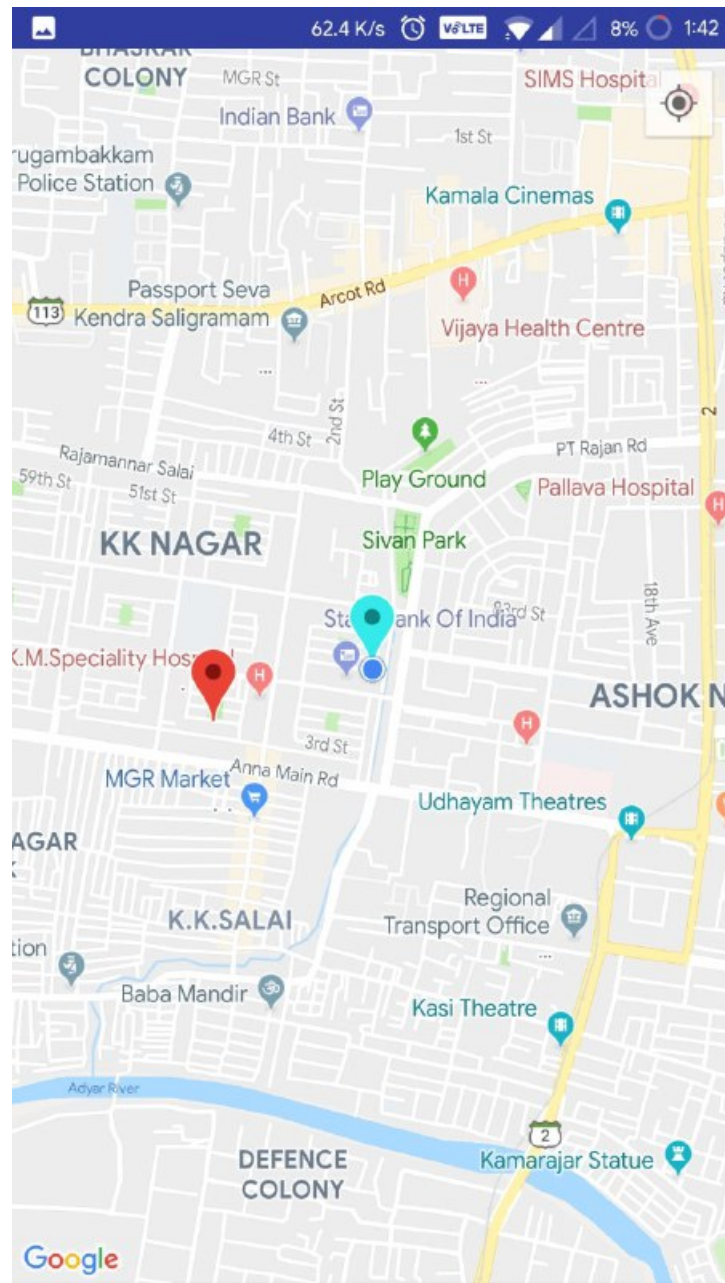
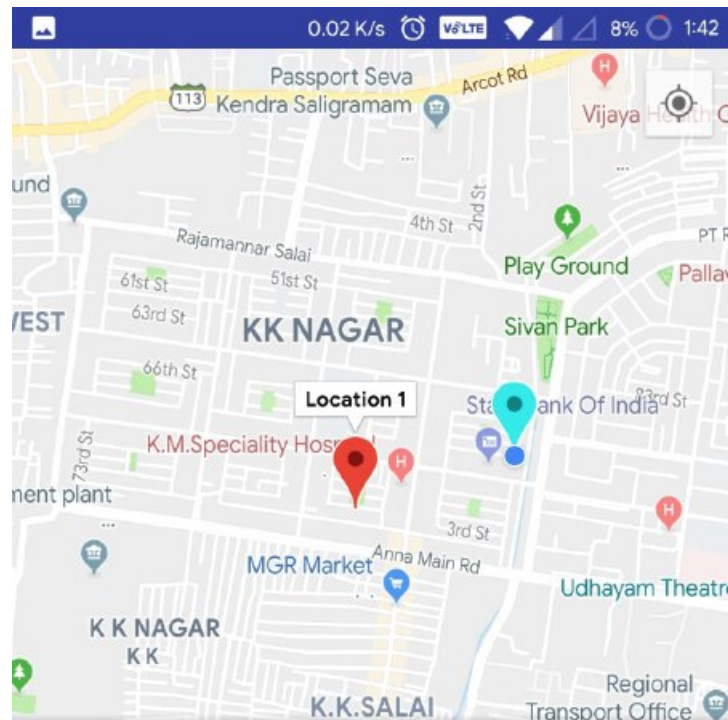


Figure 3.11: Delivery



Slide Up

Name: Distributor

Address: Djndnd, Dndjdd, Djdhdd

Requirement: 3 packets

[Click here to set as delivered.](#)

Figure 3.12: Delivery

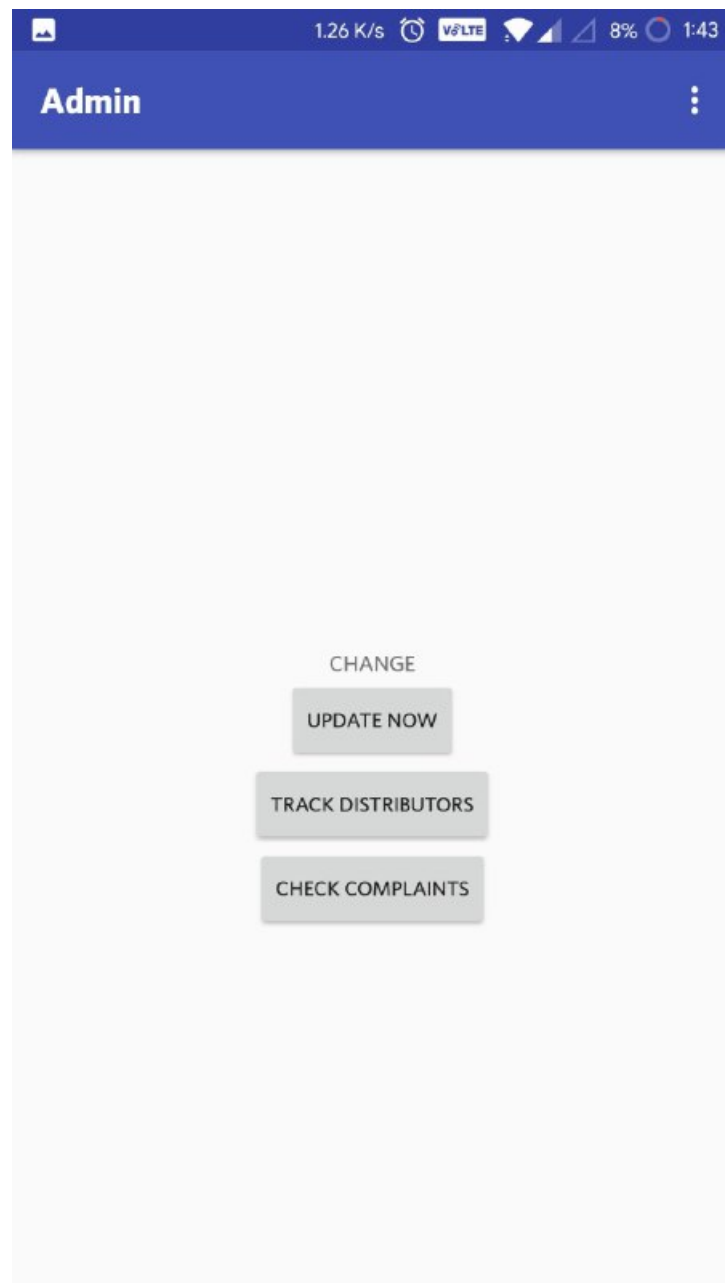


Figure 3.13: Admin Interface

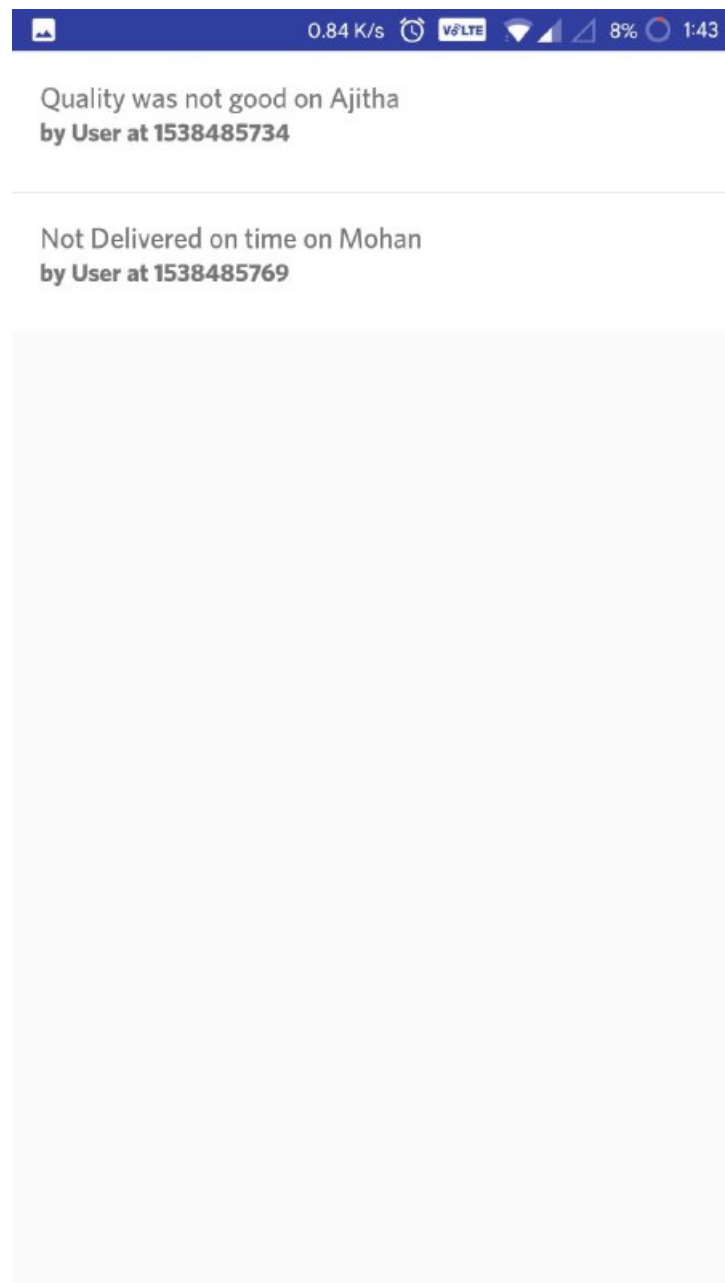


Figure 3.14: Displaying Complaints

CHAPTER 4

CONCLUSION AND FUTURE WORK

With the massive advancements in technology, every sector has gained better improvements. Milk, being one of the basic necessities, this sector has to improve too! Through our application, customers and co-operative society will be able to benefit and get their requirements in ease.

REFERENCES

- [1] Anna University PhD-Regulations 2015. <https://cfr.annauniv.edu/research/regulation/PhD-Regualtion-2015.pdf>. Accessed: 20 March 2015.
- [2] K Alishahi, F Marvasti, V A Aref, and P Pad. Bounds on the sum capacity of synchronous binary cdma channels. *Journal of Chemical Education*, 55:3577–3593, 2009.
- [3] T G Conley and D W Galeson. Nativity and wealth in mid-nineteenth century. *Journal of Economic History*, 58:468–493, 1998.
- [4] S Waldron. Generalized welch bound equality sequences are tight frames. *IEEE Transactions on Information Theory*, 49:2017–2309, 2008.
- [5] Richard E Fikes and Nils J Nilsson. STRIPS: A New Approach to the Application of Theorem Proving to Problem Solving. In *Proceedings of the 2Nd International Joint Conference on Artificial Intelligence, IJCAI'71*, pages 608–620, 1971.
- [6] Weiguo Fan, Michael D Gordon, and Praveen Pathak. Personalization of Search Engine Services for Effective Retrieval and Knowledge Management. In *Proceedings of the Twenty First International Conference on Information Systems, ICIS '00*, pages 20–34, 2000.
- [7] D H Holt. *Management Principles and Practices*. Prentice-Hall, Sydney, 1997.
- [8] Philippe Aghion and Steven Durlauf, editors. *Handbook of Economic Growth*, volume 1. Elsevier, 1 edition, 2005.
- [9] Dan Riley. *Industrial relations in Australian education / edited by Dan Riley*. Social Science Press [Wentworth Falls, N.S.W.], 1992.
- [10] J P Hos. *Mechanochemically synthesized nanomaterials for intermediate temperature solid oxide fuel cell membranes*. PhD thesis, University of Western Australia, 2005.
- [11] A H Cookson. Particle trap for compressed gas insulated transmission systems, 1985. US Patent 4554399.
- [12] J Ionesco. Federal Election: New Chip in Politics. *The Advertiser*, page 10, 2010.