KARNATAK LAW SOCIETY'S

GOGTE INSTITUTE OF TECHNOLOGY

UDYAMBAG BELAGAVI -590008

KARNATAKA, INDIA.

A Course Project Report on

THE LAST MILE DELIVERY

Submitted for the requirements of 4th semester B.E in CSE for

"Software Engineering (18CS45)"

Submitted by

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Under the guidance of

Prof. Girish Deshpande

Asst. Prof., Dept. of CSE

Academic Year 2021 - 2022 (Even semester)

2021-2022

CERTIFICATE

This is to certify that the project titled

"**THE LAST MILE DELIVERY**"

is a bonafide record of the Project done by **SHIVANI BANKE (2GI20CS140), SHRADHA MALLIKARJUN PATIL (2GI20CS144), SRUSHTI MUDENNAVAR (2GI20CS158)** and **YASH HEREKAR (2GI20CS184)** under my supervision and guidance, in partial fulfilment of the requirements for **Software Engineering (18CS45)** the Outcome Based Education Paradigm in **Computer Science and Engineering** from Gogte Institute of Technology , Belgaum for the academic year 2021-2022.

Asst. Professor	Head Of Department
Prof. Girish Deshpande	**Dr. V. S. Rajpurohit**
Department of CSE	Department of CSE

Academic Year 2021 - 2022 (Even semester)

CONTENTS

1. PROBLEM STATEMENT

Rural retailers employ a complex transport system to replenish their stocks from urban wholesalers.
The transport system is usually infrequent and often carries an empty load.

2. TOOLS USED FOR DEVELOPMENT

Flutter - GUI frontend development
Firebase - Database
Node js - backend development
Github - Collaboration over the cloud
draw.io - Use-case diagrams and sequence diagram
Android - Software testing

3. NON FUNCTIONAL REQUIREMENTS

Efficient Requirement

When a system will be implemented retailer and distributor will easily be able to access the app and the transport of goods will be efficient.

Reliable Requirement

The system should accurately perform user registration, user validation, track goods, make payment and send notifications.

Usability Requirement

The system is designed for a user friendly environment so that retailer, distributor and the transporter can perform the various tasks easily and in an effective way.

Security Requirement

Security of the system shall be definitely be maintained through Aadhar numbers or PAN numbers. Each user will need to authenticated and verified through Aadhar or PAN details to avoid fraud.

4. FUNCTIONAL REQUIREMENTS

Login

This feature used by the Retailer, Distributor as well as the Delivery guy to login into system. They are required to enter user id and password before they are allowed to enter the system. The user id and password will be verified and if invalid id is the user is not allowed to enter the system.

Functional requirements

• user id is provided when they register

• The system must only allow user with valid id and password to enter the system

• The system performs authorisation process which decides what user level can access to.

• The user must be able to logout after they finished using system.

Register New User

This feature can be performed by all users to register new user to create account.

Functional requirements

• System must be able to verify information

• System must be able to delete information if information is wrong

Payment

This feature allows the retailer to make payments to the distributor and also give a percentage incentive to the traveller.

Functional requirements

• System must be able to verify the payment receiver's bank account.

• System must be compatible and well integrated with bank software.

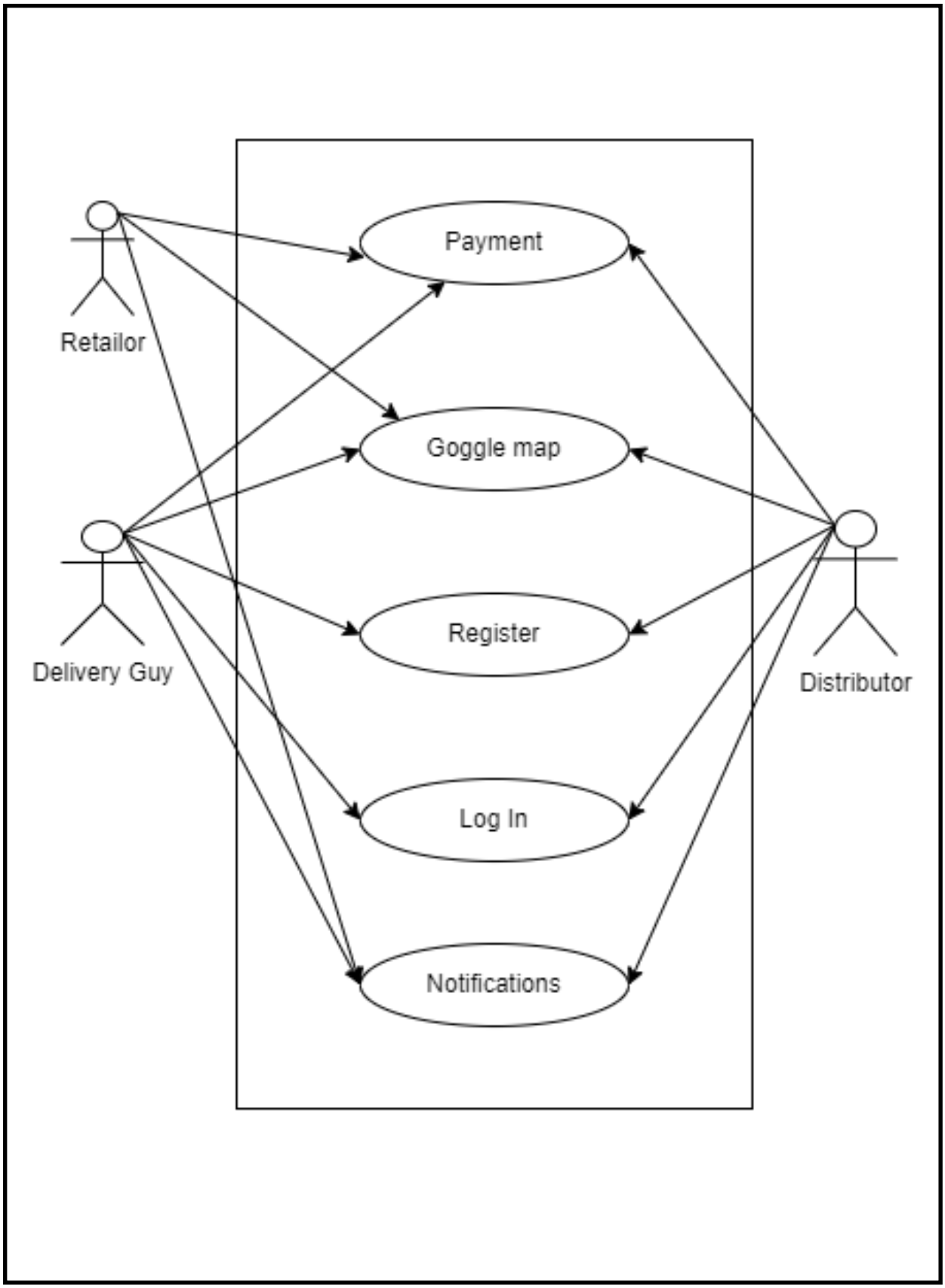
Tracking Order

This feature allows the retailer to track their order.

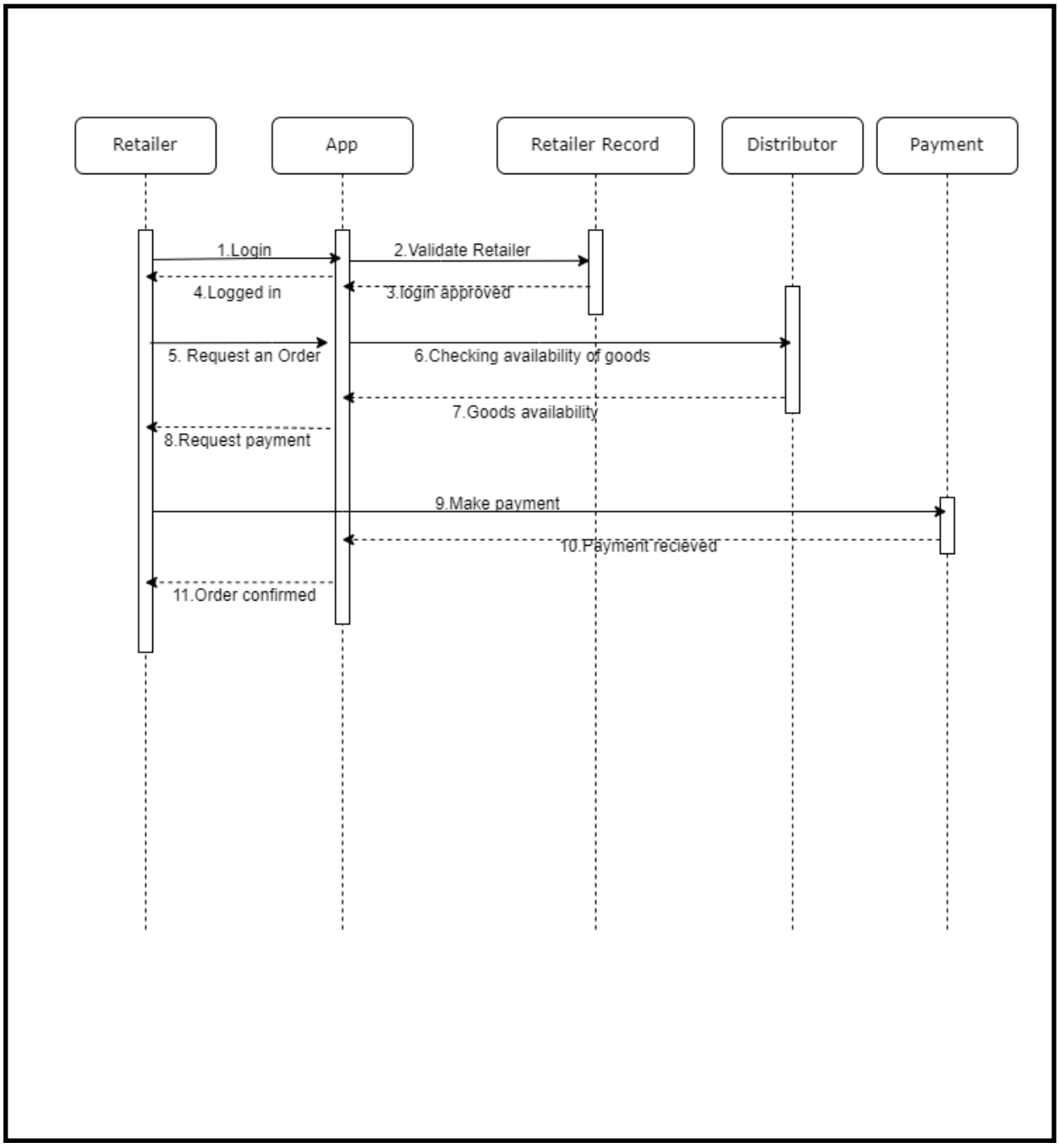
Functional requirements

• System must be compatible and well integrated with google maps API.

5. USE-CASE DIAGRAM



6. SEQUENCE DIAGRAM



7. STORY CARD AND TASK CARD

Story card

As a retailer, after placing the order I will want to make payment.

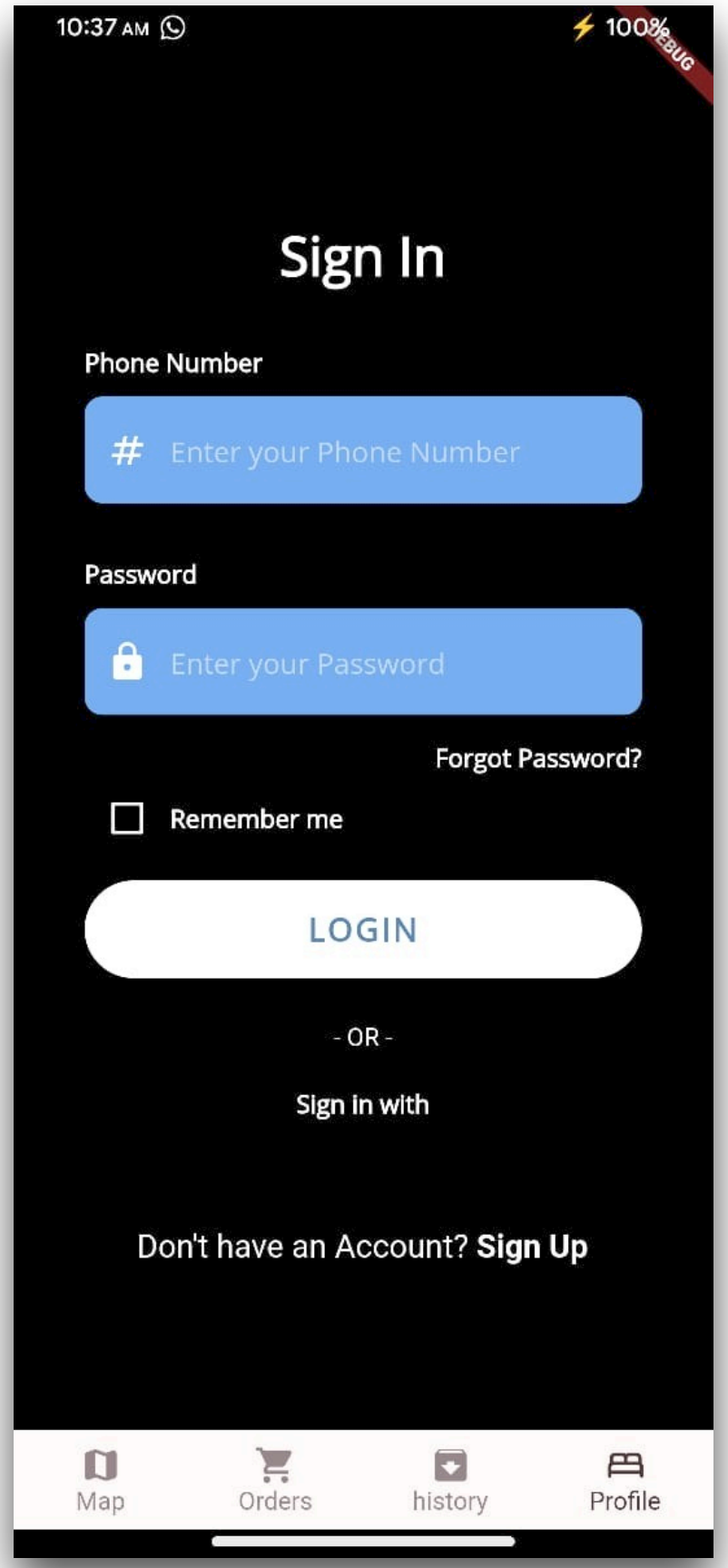
Task Card

Allows the user to choose the mode payment and then user is asked to enter the credentials such as card no. , 3-digit cvv no. After which the user receives an OTP on the registered mobile number. After validation the payment is successfully completed

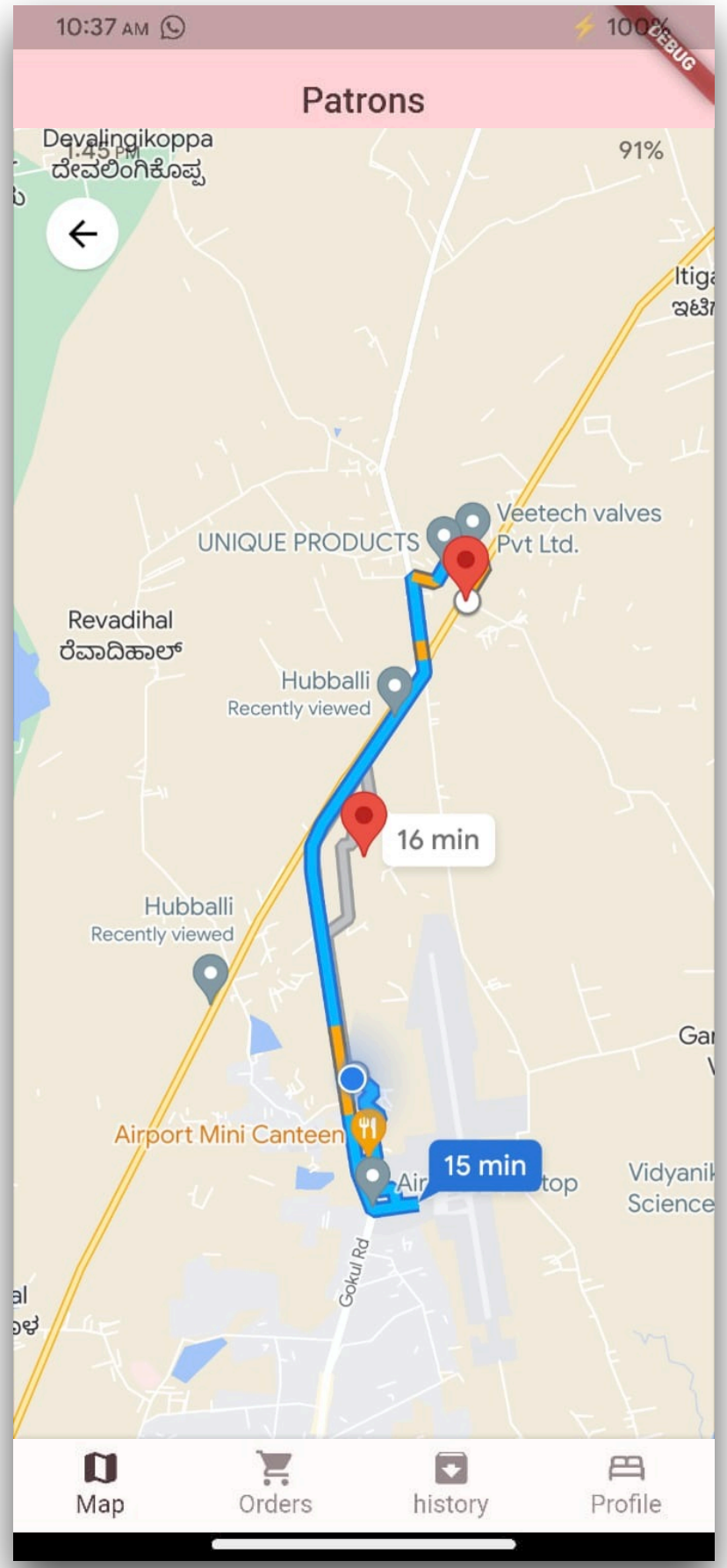
Task: Payment

Input:1	**User Credit Card Number, username, password.**
Input:2	**Amount To be credited.**
Test case1	**Testing credit card is valid or invalid.**
Test case2	**Testing user name is correct password is invalid**
Test case3	**Testing password is correct user name is invalid**
Test case4	**Whether Minimum balance of amount is available or not.**
Test case5	**Once payment is done, its successfully updated or not**
Test case6	**Network connectivity, server availability,response time.**
Output:	**Successful amount payment or Error caused by system.**

8. SCREENSHOTS



Login screen


10:37 AM
100%
DEBUG
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Devalingikoppa
ದೇವಲಿಂಗಿಕೊಪ್ಪ
1:45 PM
91%
Itiga
ಇಟಿಗ
Veetech valves
Pvt Ltd.
UNIQUE PRODUCTS
Revadihal
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Hubballi
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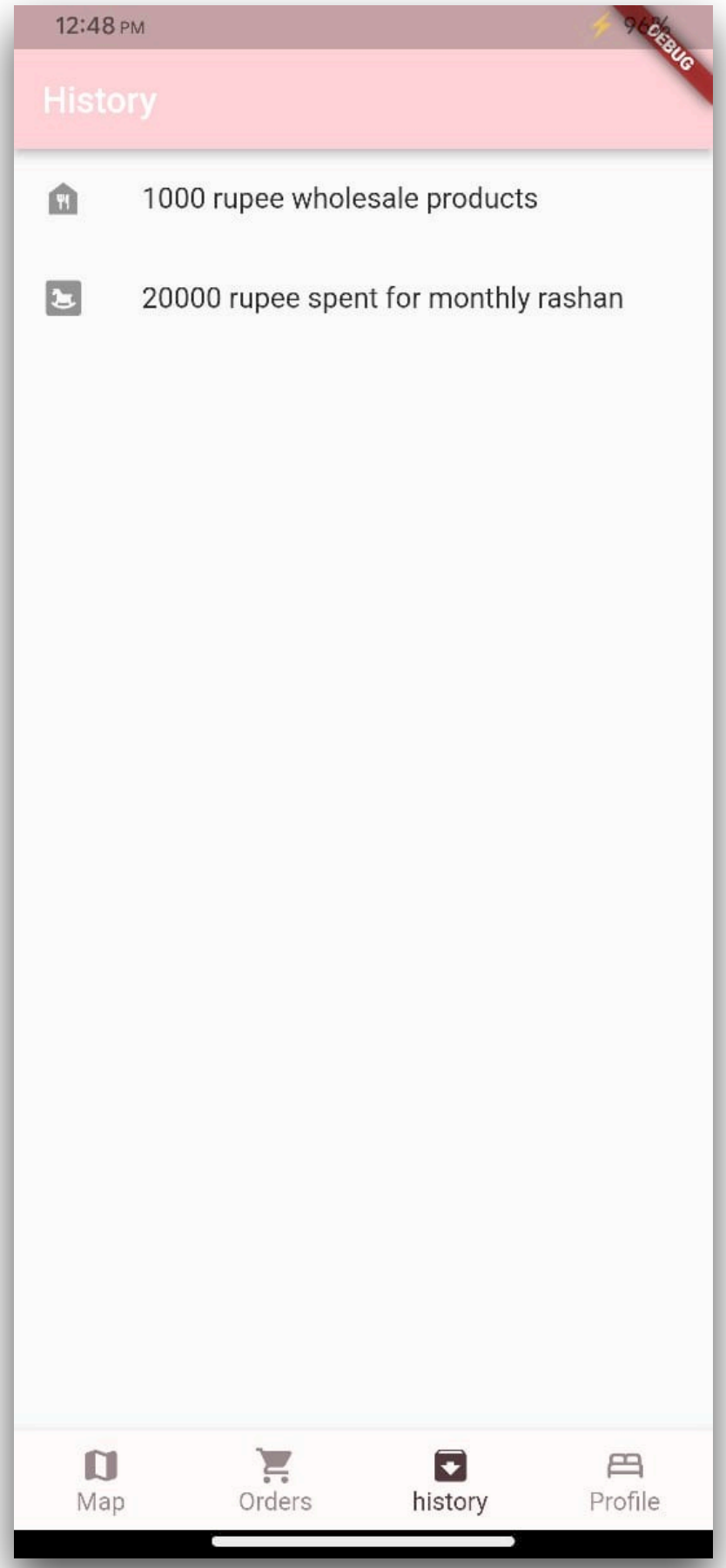
Map
Orders
history
Profile

Map


12:48 PM
DEBUG
History
1000 rupee wholesale products
20000 rupee spent for monthly rashan
Map
Orders
history
Profile

History

Current orders

9. CONCLUSION

The Internet has become a major resource in modern life, internet penetration in rural India has gone to a tremendous scale, we might expect a complete penetration of internet in the Indian market in the next decade given that the internet prices are insanely cheap, its a slow process but we need to trust the process. Our app aims at solving the last mile delivery problem, the mechanisms responsible for the functioning of the app enable us to do so effortlessly.

10. REFERENCES

[1] IAN SOMMERVILLE, SOFTWARE ENGINEERING NINTH EDITION