VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belgaum -590014, Karnataka.



PROJECT WORK-3 REPORT on

TRAVEL BUDGET

Submitted by

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Under the Guidance of Dr. Rajeshwari B S Assistant Professor, BMSCE

in partial fulfillment for the award of the degree of BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE AND ENGINEERING



B.M.S. COLLEGE OF ENGINEERING (Autonomous Institution under VTU) BENGALURU-560019 Oct-2021 to Jan-2022

B. M. S. College of Engineering,

Bull Temple Road, Bangalore 560019

(Affiliated To Visvesvaraya Technological University, Belgaum)

Department of Computer Science and Engineering



CERTIFICATE

Signature of the Guide

This is to certify that the project work entitled "TRAVEL BUDGET" carried out by VAISHNAVI JAGDALE (1BM19CS215), TRISHA LAKHANI (1BM19CS214) AND SWETHA PATIL (1BM19CS168) who are bonafide students of B. M. S. College of Engineering. It is in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2021-2022. The project report has been approved as it satisfies the academic requirements in respect of Project Work-3 (20CS5PWPW3) work prescribed for the said degree.

Rajeshwari B S
Assistant Professor, Dept. of CSE,
BMSCE, Bengaluru

External Viva

Name of the Examiner

Signature with date

Signature of the HOD

B.M.S. COLLEGE OF ENGINEERING DEPARTMENT OF COMPUTER SCIENCEAND ENGINEERING



DECLARATION

We, VAISHNAVI JAGDALE (1BM19CS215), TRISHA LAKHANI (1BM19CS214) AND SWETHA PATIL (1BM19CS168), students of 5th Semester, B.E, Department of Computer Science and Engineering, B. M. S. College of Engineering, Bangalore, hereby declare that, this Project Work-1entitled "TRAVEL BUDGET" has been carried out by us under the guidance of Dr. Rajeshwari B S, Assistant Professor, Department of CSE, B. M. S. College of Engineering, Bangalore during the academic semester Oct-2021-Jan-2022.

We also declare that to the best of our knowledge and belief, the development reported here is not from part of any other report by any other students.

Signature

VAISHNAVI JAGDALE (1BM19CS215) TRISHA LAKHANI (1BM19CS214) SWETHA PATIL (1BM19CS168)

1. Introduction

Mobile app development entitled "Travel Budget".

1.2 About the app

Travel Budget is an app to track your spending while traveling the world. It's perfect for you if you are planning your next trip or are already on vacation. We designed this app specifically for travelers. It's quick and easy to use. Users can add their expenses spread over multiple days for different purposes.

1.3 About the Project

Budgeting creates a spending plan for your money and can help ensure there is always enough money to pay for food, bills, and other expenses. Having a budget for travelling is a necessary tool. Budget travel is travel that is cost-conscious and price-aware. The app travel budget helps users to keep track of their travel budget and to save money.

1.4 Functionalities

The application mainly has:

Signup and Login Page: Users can create their account by giving the required details like name, email id, password, profile picture. They can login in into the application by giving their mail id and password.

Home page: It gives a budget for travelling to different cities.

Expenses page: Users can enter the amount of money that has been spent during the trip for different purposes.

Display page: The total amount of money spent and saved during the trip is displayed.

Profile: It shows the profile and details of the user. The user can log out once he is done.

Setting budget page: Users can set the budget for their trip and change the currency accordingly.

2. System Requirements

2.1 Hardware Requirements:

- A PC with the following or greater specifications:
 - o Intel Core i3 or higher
 - o Turbo Boost up to 4.5GHz, with 12MB shared L3 cache
- A stable internet connection.

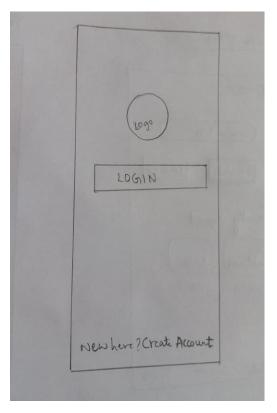
2.2 Software Requirements:

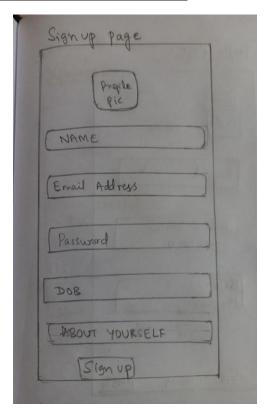
• Operating system : Windows, macOS

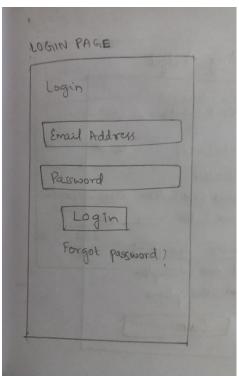
• Front end technologies are : Flutter.

• Back end requirement : Firebase

3. Layouts of different pages of our app







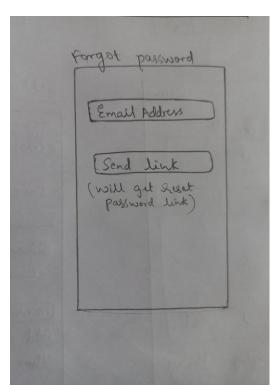
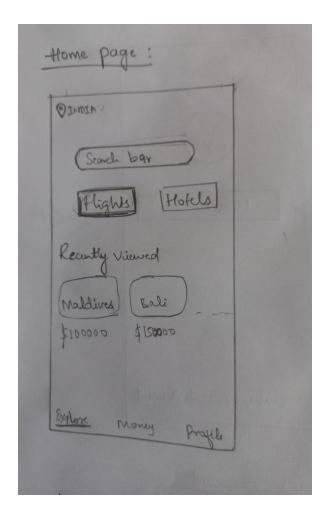


Fig. 3.1 Signup and Login



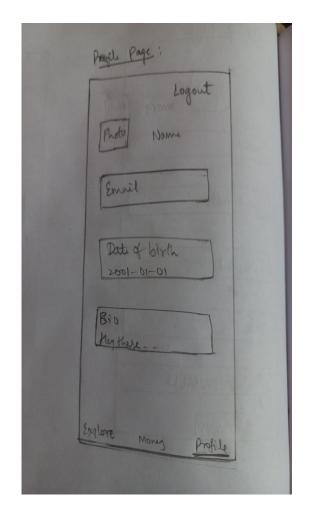
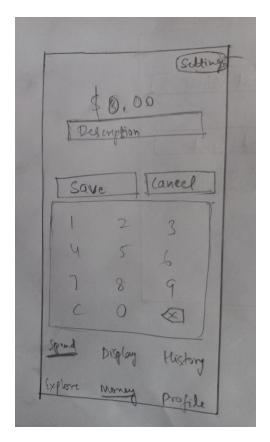
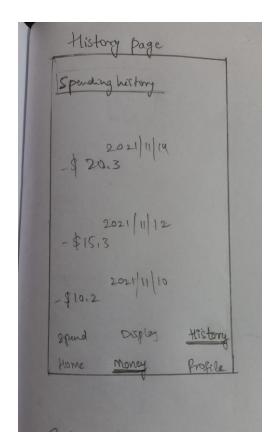


Fig. 3.2 Home page

Fig 3.3 Profile page





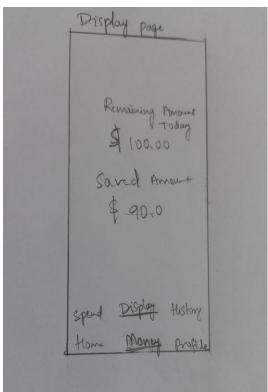


Fig 3.4 Expenses

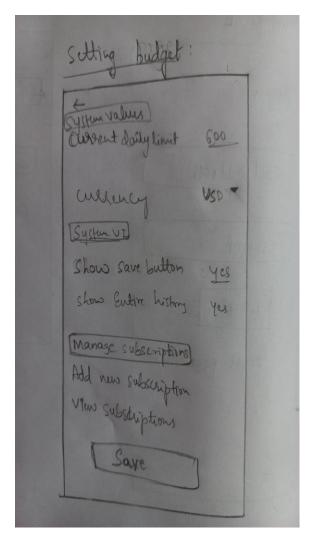


Fig 3.5 Setting budget

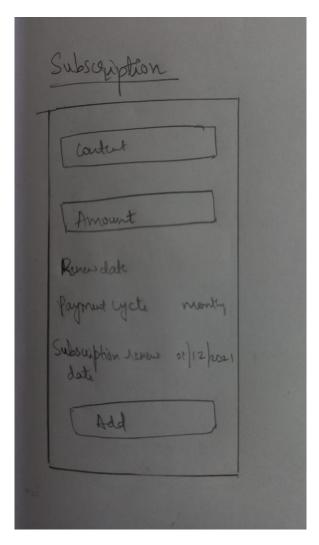


Fig 3.6 Subscription

4. Design Layouts: Screenshots of Mobile App

4.1: Login

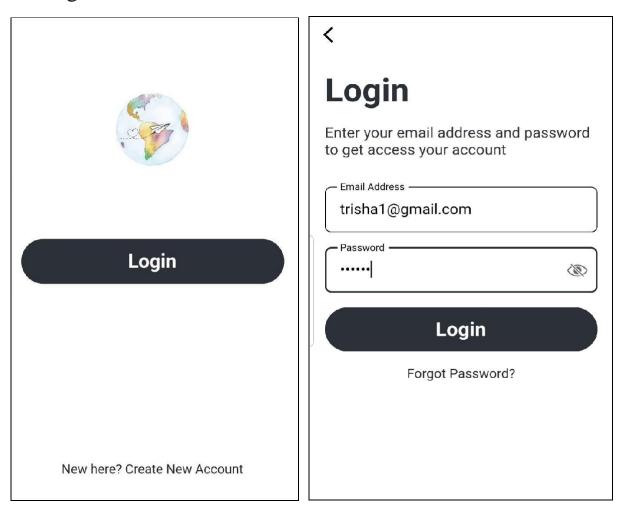


Fig1.1 Login Screen

4.1.1: Forgot Password

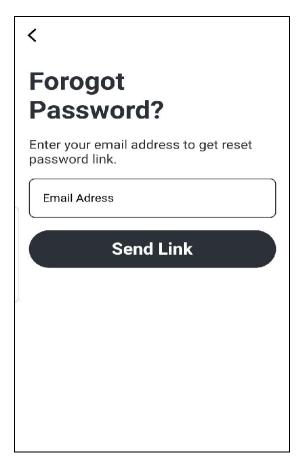


Fig.1.2 Forgot Password Screen

4.2: Signup

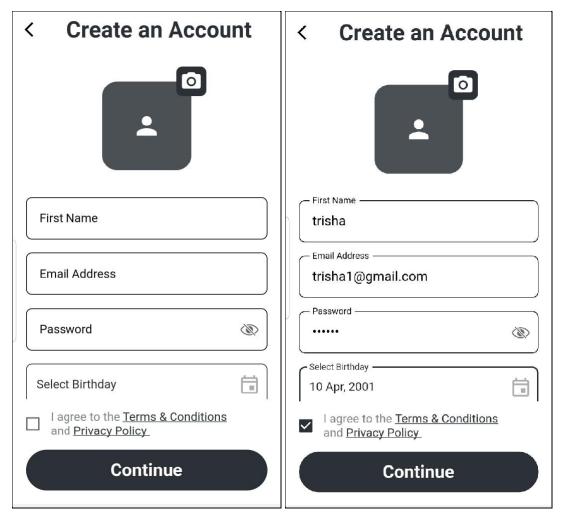
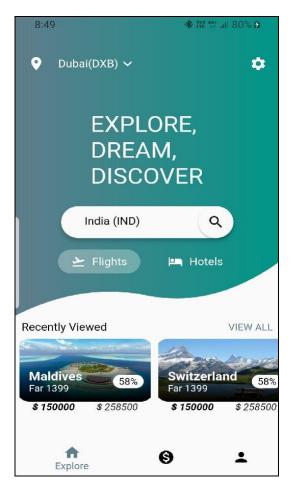


Fig4.2 Sign Up Page

4.3: Home Page



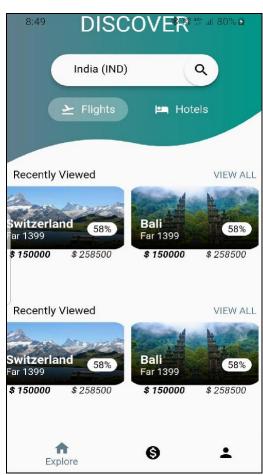
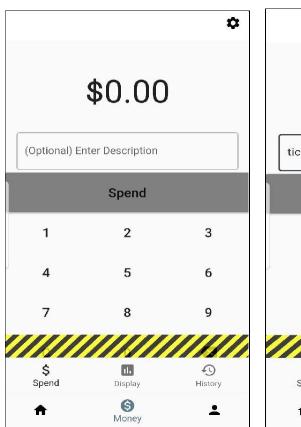


Fig 4.3 Home Page

4.4: Expenses



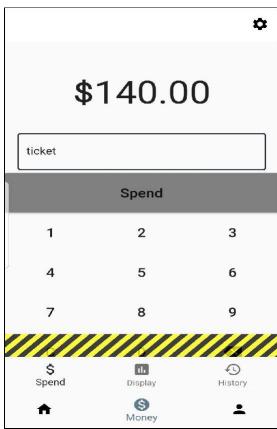
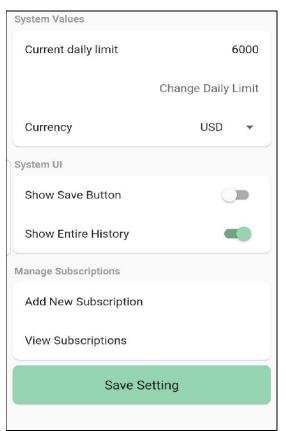


Fig 4.4 Expenses page

4.5: Setting Budget



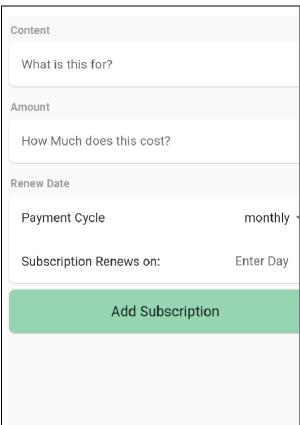


Fig 4.5 Setting budget

Fig 4.5.1 Subscription

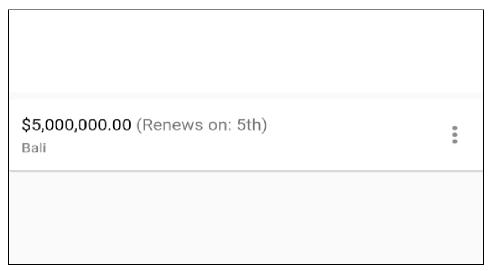


Fig 4.5.2 View existing subscriptions

4.6: Display page

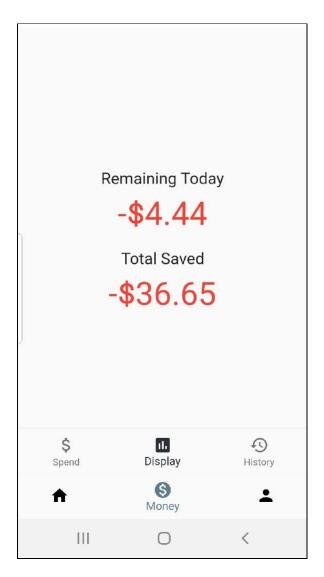




Fig 4.6. Spending history

4.7: Profile

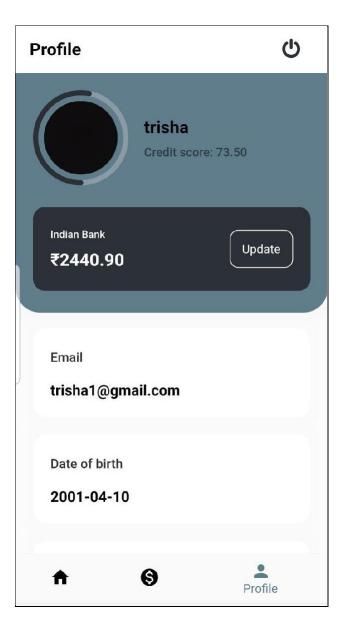
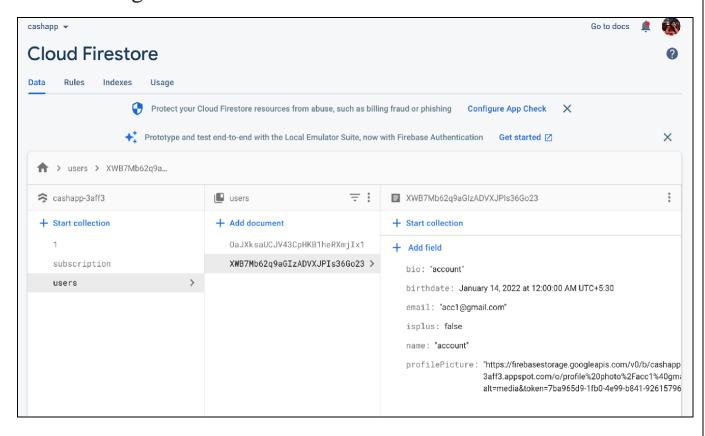


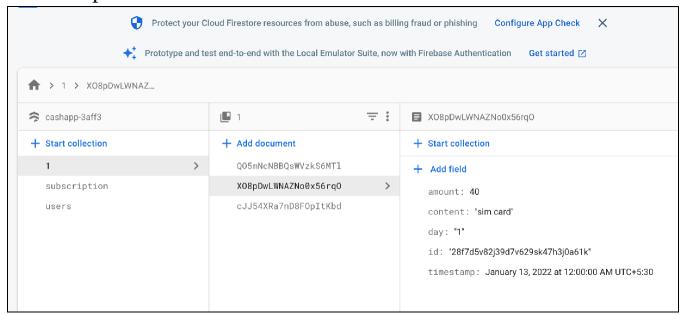
Fig 4.7. Profile

5. <u>Database Table Screen shots</u>

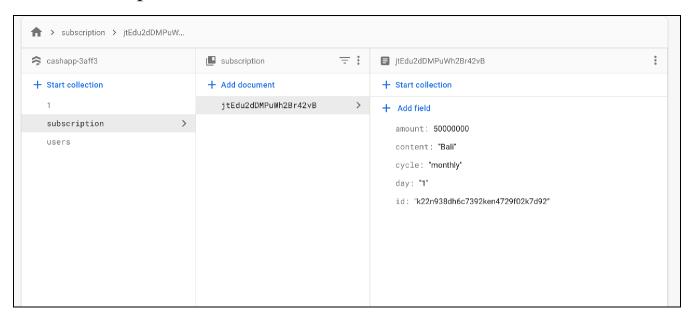
5.1.1: Login Users Database



5.1.2: Expenses Users Database



5.1.3: Subscription Database



6. CONCLUSION

The combination of Flutter and Firebase is excellent for creating mini applications that can be easily deployed across all platforms due to Native Pixel Manipulations allowed by Flutter. Since Flutter is a multi-platform SDK, each FlutterFire plugin is applicable for both Apple and Android platforms. Hence if we add any plugin to the Flutter app, it can be used by both Apple and Android versions of your Firebase app.

The Firebase database is a real time cloud-hosted No-SQL database that lets you store and sync data between users in real time, this has helped to gain knowledge of the working of a cloud based backend environment.

A crucial factor while traveling is to keep a track of your expenses, this app 'Travel budget' primarily aims to help those who want to keep track of the amount of money spent while travelling. Users can set the budget for their trip and even change the currency accordingly which is very helpful while travelling to different countries.

This project has been extremely helpful in gaining knowledge and hands-on experience in app development, front end as well as backend.

7. FUTURE ENHANCEMENTS

After gaining hands-on experience of developing an app using Flutter and Firebase, the process of the working and effort is kept well in mind. The current app provides the user with a list of functionalities.

In the near future, to make the app more user friendly and accessible, we could add some enhancing features to the existing application.

Along with the feature of keeping a history of all expenses, there could be an added feature of booking hotel and flight reservations. This could include a page that redirects the user to the selected airline of choice. The user can book a hotel room for the duration of stay for that particular trip. This would give an added benefit to a traveller of being able to enjoy any vacation carefree because the booking and expenses would be more organized.

Another possible feature could be to create a to-do list for the user/traveller in order to have a smooth functioning of his/her day for the trip.

These future enhancements would make the app more widely available and in demand for the suited purpose.

8. REFERENCES

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- 5. https://api.flutter.dev/
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