Dharmsinh Desai University, Nadiad
Faculty of Technology
Department of Computer Engineering
B. Tech. CE Semester – V

Project Report

Subject : **SDP (Smart Device Programming)**

Project Title : **Online Book Store App(Lecbooks)**

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1:- Project Description :

1.1:- Brief introduction

● Online Book Store App (Lecbooks) , is mainly developed for getting books based on different criteria like based on specific college, specific course, specific semester.

● Developed with the aim that Students have an access to each and every books they need.

● Our app has a variety of books with different domain.

1.2 :- Tools

● Flutter

● Dart

```
sdk: flutter
cupertino_icons: ^1.0.2
transparent_image: ^2.0.0
appbar_animated: ^0.0.3
email_validator: ^2.0.1
http: ^0.13.3
curved_navigation_bar: ^1.0.3
carousel_slider: ^4.1.1
flutter_gradient_colors: ^2.1.1
filter_list: ^1.0.1
syncfusion_flutter_pdfviewer: ^20.1.60-beta
flutter_pdfview: ^1.2.2
filter_list: ^1.0.1
syncfusion_flutter_pdfviewer: ^20.1.60-beta
flutter_pdfview: ^1.2.2
no_context_navigation: ^2.1.2
page_transition: ^2.0.9
font_awesome_flutter: ^10.1.0
```

```
fluttericon: ^2.0.0
regexpattern: ^2.0.1
shimmer: ^2.0.0
flutter_windowmanager: ^0.2.0
slidable_button: ^2.0.0+1
overlay_container: ^0.0.5+1
indexed: ^0.0.8
```

- Node (Backend)

- Stripe Data Base

2:- Database Design :

2.1:- Technology

●Use predefined SQL queries or write new custom queries right inside the Stripe Dashboard–no data engineering required.

●Stripe uses MySQL and Mongo.

2.2:- Schema Design

(A) User Schema :

Username : unique user name of user

Password : password of user

Email: Email of user

(B) Books Schema :

Name: name of the book

Author: author of the book

Price : price of the book

(c) Collection Schema :

Book Name: name of book bought by a particular user

Price: price at which user bought that book

Date: date on which user bought that book

3:- Application Logic

3.1:- Widget For UI

(A) IconButton :

● An icon button is a picture printed on a Material widget that reacts to touches by filling with colour.

● Icon buttons are commonly used in the Appbar actions field, but they can be used in many other places as well.

● Icon buttons don't support specifying a background colour.

(B) Row Widget :

● Row is a widget that displayed its children in horizontal array

● We can wrap child in an expanded widget

● A Row widget does not scroll

(C) Column Widget :

● Column is a widget that displays the content in vertical order.

● Column widget does not scroll

● It has many properties like children, clipBehaviour, crossAxisAlignment, mainAxisAlignment, Direction etc.

(D) Container Widget :

● Container widget is used for painting and positioning and resizing.

● Container without any children they try to be as big as possible.

● Container combines a number of other widgets each with their own layout behaviour

● Containers with children size themselves to their children.

4:- Testing :

4.1:- API Testing :

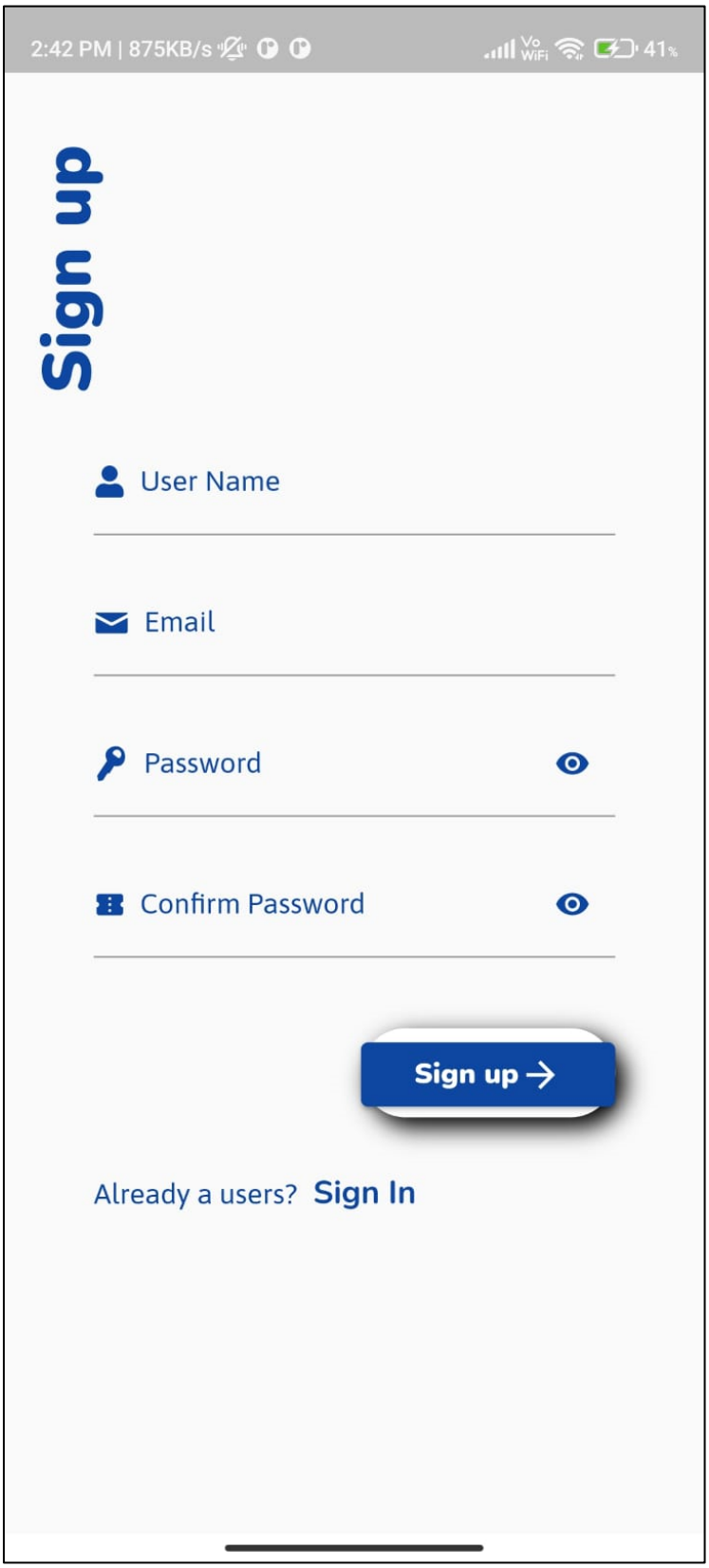
● Unit testing and integration testing of node backend api is done through thunder client extension of visual studio code

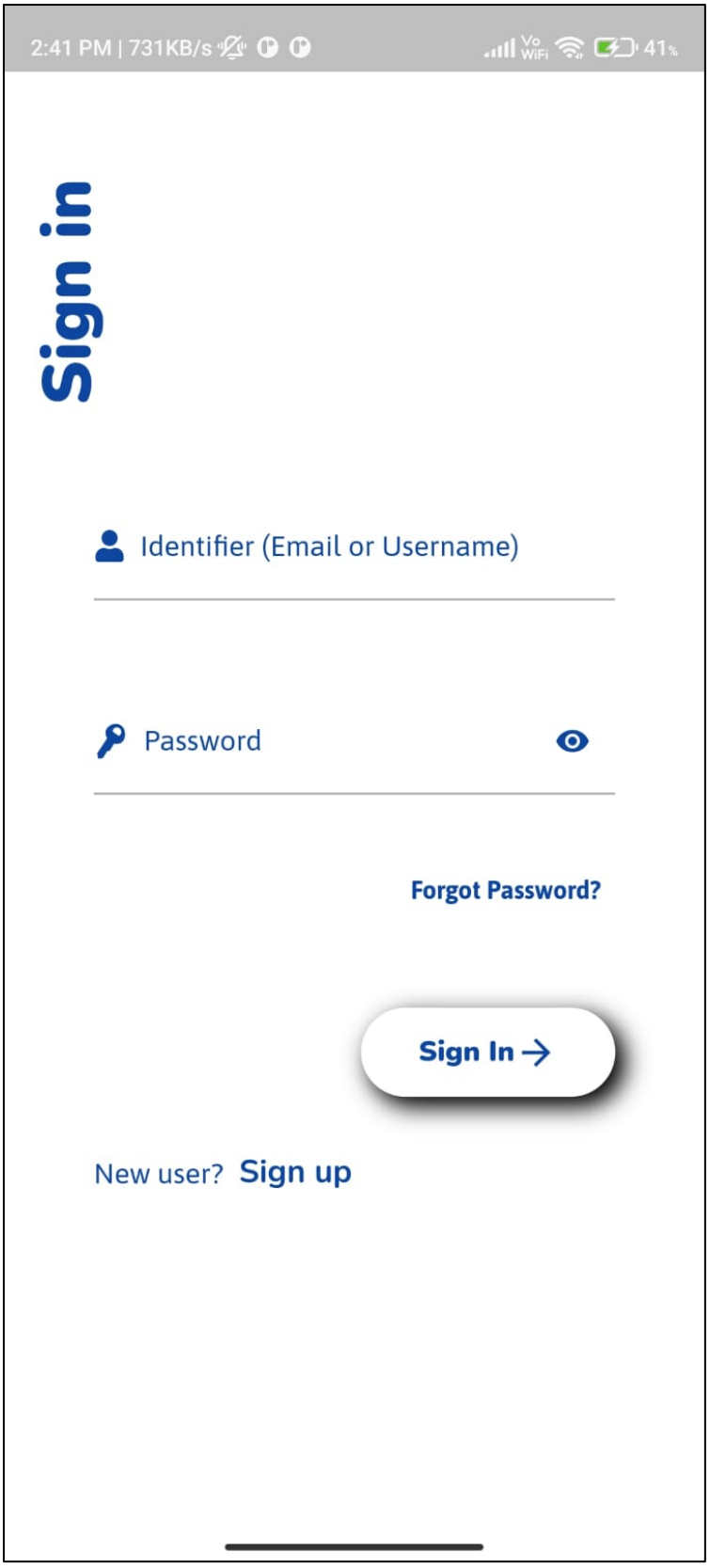
Test cases :

a. Password detection

b. Unauthorised user test

5:- Screen Shots :




2:41 PM | 731KB/s
41%
Sign in
Identifier (Email or Username)
Password
Forgot Password?
Sign In
New user? Sign up

6:- Conclusion :

6.1: Functionality Successfully Provided by the Application :

- Every Book Available online
- Categorized by different criteria like College, Subject, Semester
- Preview available before buying

7:- Future Extension :

- Hard copy of books can also be ordered.
- Adding payment gateway.

8: References :

- flutter documentation
- pub dev library