

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 :

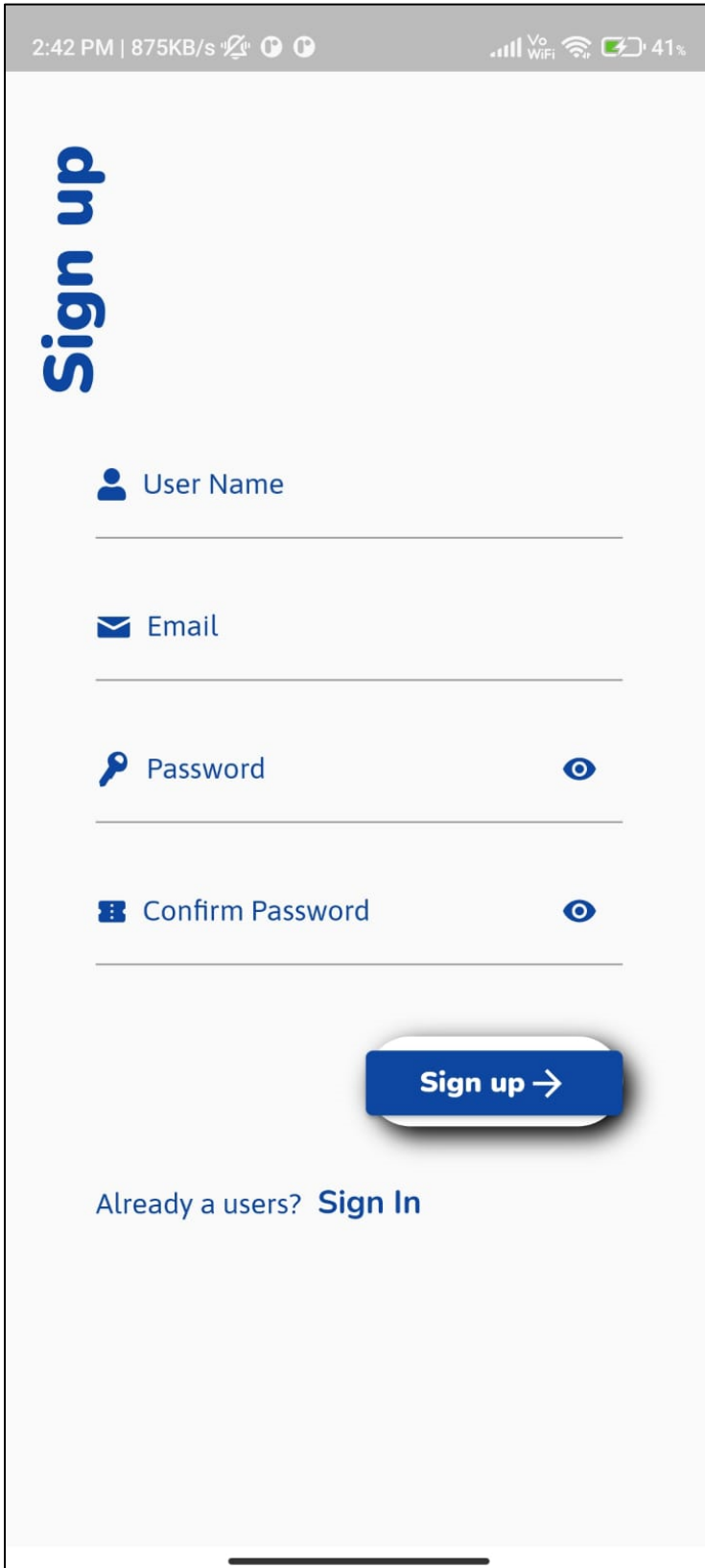
4.1:- API Testing :

- 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 :






A screenshot of a mobile application's sign-up screen. The status bar at the top shows the time as 2:42 PM, a data speed of 875KB/s, and various connectivity icons (VoWiFi, Wi-Fi, cellular signal) along with a 41% battery level. The main heading "Sign up" is written vertically in a large, bold, blue font on the left side. Below this, there are four input fields, each with a blue icon to its left: a person icon for "User Name", an envelope icon for "Email", a key icon for "Password", and a key icon for "Confirm Password". To the right of the "Password" and "Confirm Password" fields are blue eye icons for toggling password visibility. Each input field is represented by a horizontal line. Below the input fields is a blue button with rounded corners, containing the text "Sign up →" in white. At the bottom, there is a link that says "Already a users? Sign In" in blue text. The entire screen is enclosed in a thin black border, and a horizontal line at the very bottom represents the mobile home indicator bar.



2:42 PM | 875KB/s VoWiFi 41%

Sign up

 User Name

 Email

 Password 


 Confirm Password 

Sign up →

Already a users? [Sign In](#)

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