DEPARTMENT:
Computer Science

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PROJECT TITLE:
Colorado Adventure Trail
Colorado Adventure Trail

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The Problem

- Western Colorado economy
  - Tourism
  - Jobs
- Lesser known towns
  - Ridgeway, Silverton, Norwood, etc...
Client requested a mobile application that contains a:

1. Travel guide to explore Western Colorado
   - Restaurants
   - Trails
   - Lodging
2. Passport system
   - Asserts the user’s location and allows them to check in
3. Measure economic impact of CAT
   - Information retrieved upon check-in
Design

Software Stack

- Android Studio
- Flutter
  - Better for cross-platform
  - Faster
  - Allows access to various google services
- Firebase (Database), Google Maps
Testing

Unit testing
- Sign in/ sign up pages
- Check-in page
- Test package

Widget testing
- User Interface
- Widgets are in every aspect of the app
- Flutter_test package
import 'package:test/test.dart';
import 'package:coloradoadventuretrail/SignIn/validator.dart';

void main() {

test('Email entered is correct', () {

    FieldValidator.validateEmail('test@gmail.com');

    expect(result, null);
});
}
import 'package:flutter/material.dart';

import 'package:coloradoadventuretrail/main.dart';

import 'package:flutter_test/flutter_test.dart';

void main(){
  testWidgets('Sign In widget test', (WidgetTester tester) async {
    await tester.pumpWidget(MyApp());
    var textField = find.byType(TextField);
    expect(textField, findsOneWidget);
  });
}
Set<Marker> markers = new Set(); // create a class that extends markers

markers.add(Marker(
    markerId: MarkerId("Fruita"),
    position: LatLng(39.1589, -108.7290),
    onTap: () {
        Navigator.push(context,
            MaterialPageRoute(builder: (context) => Fruita_Home()));
    })};
Future<\texttt{void}> \texttt{signIn()} \texttt{async}\{ 
\smaller{\texttt{final formState = \_formKey.currentState;}} 
\smaller{\texttt{if (formState.validate()) \{}} 
\smaller{\texttt{formState.save();}} 
\smaller{\texttt{try\{}} 
\smaller{\texttt{FirebaseUser user = (await FirebaseAuth.}\texttt{instance.signInWithEmailAndPassword(email: \_email.trim(), password: \_password)).user;}} 
\smaller{\texttt{Navigator.push(context,MaterialPageRoute(builder:(context) => HomePage()));}} 
\smaller{\texttt{)}} 
\smaller{\texttt{catch(e){print(e.message);}}}}
Demo