

Application Overview

Simple School Timetable App

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Proposed Features

- Authentication – Email Password, Google Social Authentication Provider
- Insert, List, Update and Delete lessons (CRUD) Google Calendar API
- Unit, Integration and widget tests – Embedded in githubb actions
- Continuous Integrations and development (CI/CD) – Github Actions
- Generating APK for android
- Documentation Overview.

Technology Stack

- Firebase Authentication
- Google Calendar API backend
- Flutter (Cross-Platform Mobile Framework) Frontend
- Dart Lang (Programming Language)
- Pub.dev (Third Party Community Dart Packages)
- Git & Github Version control system.

Pages

- **Authentication Views**
 - Sign-Up(Registration) > Email, Password, and confirm password fields with the option of using social authentication providers, specifically Sign-Up wit Google.
 - Sign-In(Login) > Email, Password fields with the option of using social authentication providers, specifically Sign-In wit Google.
- **Home Page**
 - Tab-Bar View with calendars types for week, 2 week and month while highlighting the todays date and any other selected date.
 - A welcome message to the user.
 - List of all Scheduled lessons for the day.
 - On selecting another day, the user is supposed to be able to see a list of the dates scheduled for that day too.
 - A Floating Action Button with tooltip of add new lesson and Add icon at the bottom right to prompt the user to schedule a new lesson. On pressed, a dialog box pops up with details needed to schedule a lesson such as lesson title, start time, end time, teacher and the class the lesson belongs to. On saved, the details of a new class are populated under

the date chosen for the lesson and set to recur weekly as is normally done with school timetables.

- **Teachers Page**

- List of teachers in the school.
- A Floating Action Button, to prompt the user to add a new teacher to the schools database. On pressed it takes inputs for teachers name, and email for sending class schedule reminders 30 minutes before time via Google Calendar API.

- **Classes Page**

- List of Classes being taught in the school. These can be thought of either as subjects or different levels of streams depending on the school structure.
- A Floating Action button, at the bottom right side of the screen, to prompt the user to add a new class into the database.

Screenshots

Screenshots

New to School Timetable? Signup

Email

Password

Already have an account? [Signin](#)

[SignUp](#) [Continue with Google](#)

Welcome back! Signin

Email

Password

Don't have an account? [Signin](#)

[Signin](#) [Continue with Google](#)

School Timetable

Home Teachers Classes

< October 2020 Week >

Mon	Tue	Wed	Thu	Fri	Sat	Sun
12	13	14	15	16	17	18

Hi Adan

Here is a list of classes scheduled for today that you need to check...

Pull to refresh, swipe cards to dismiss/delete lesson schedule

07:00 am
08:00 am

dhfndh
Class: Biology
Teacher: Gabriel Sutton

[Timetable](#)

Personal Information

Name
Abdi Adan

E-mail
adanabdi036@gmail.com

Settings

Logout

School Timetable

Home Teachers Classes

Lesson

Lesson StartTime

Lesson EndTime

Teacher

Class

[Save](#) [Cancel](#)

[Timetable](#)

School Timetable

Home Teachers Classes

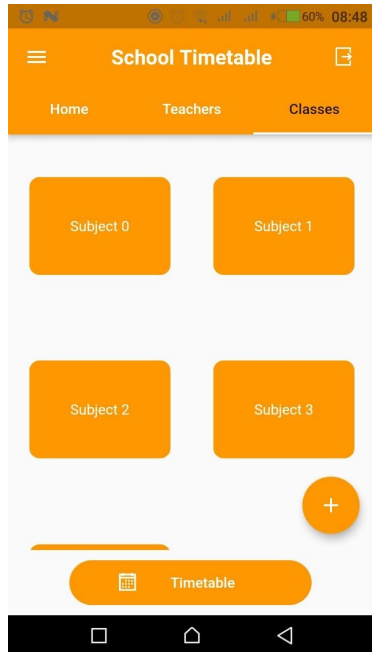
Gabriel Stanton
Class: Biology, Chemistry and Math

Gabriel Stanton
Class: Biology, Chemistry and Math

Gabriel Stanton
Class: Biology, Chemistry and Math

Gabriel Stanton
Class: Biology, Chemistry and Math

[Timetable](#)



Third Party Packages and Dependencies

Package	Version	Usage
firebase_core	^0.4.0+9	Integrating with firebase services
firebase_auth	^0.14.0+5	Authentication email-password
firebase_analytics	^5.0.2	Firebase app analytics
Google_sign_in	^4.5.4	Authentication Google identity provider
table_calendar	^2.2.3	Calendar Package UI
flutter_datetime_picker	^1.4.0	DateTimePicker UI
shared_preferences	^0.5.12	Store User Auth data