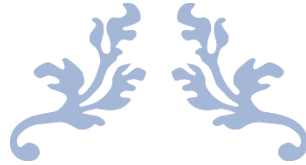




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ASSIGNMENT 3



Name : Muhammad Hammad

Sap id : 56765

Course : Mobile App Development

Section: SE 5-2

Presented to :

Sir. Waqar Arshad



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Smart Home Dashboard

The app allows users to monitor and control smart home devices such as lights, fans, air conditioners, and cameras. The main focus is on layout, interactivity, navigation, and responsive UI design.

➤ Features Implemented

1. Dashboard with Device Grid

- Main screen shows devices using **GridView**.
- Each device is displayed inside a **Card widget** containing:
 - Device icon
 - Device name
 - Toggle switch (ON/OFF)
 - Status text (e.g., “Light is ON”)

2. Custom AppBar

- Title: **Smart Home Dashboard**
- Menu icon on the left
- Profile picture icon on the right



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10:50

Vo

LTE

8.5 K/s

58

Smart Home Dashboard

My Devices

1 of 4 devices are ON

Living Room Light

Living Room

OFF

Bedroom Fan

Bedroom

ON

Kitchen AC

Kitchen

OFF

Front Door Camera

Entrance

OFF

+

Add Device

10:56

Vo

LTE

324 B/s

57

Smart Home

Control your devices

Dashboard

All Devices

4

Rooms

Settings

Help & Support



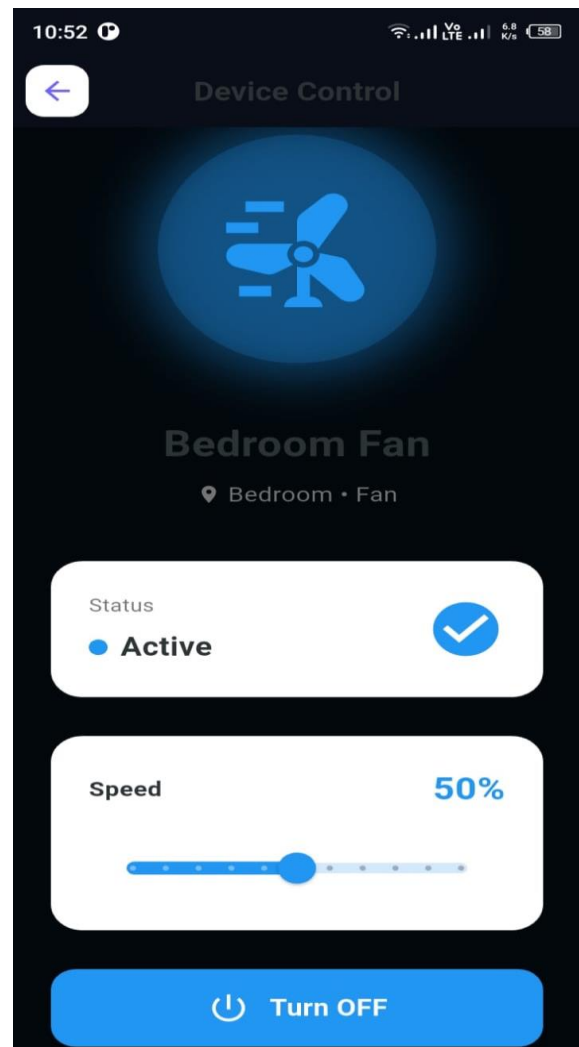
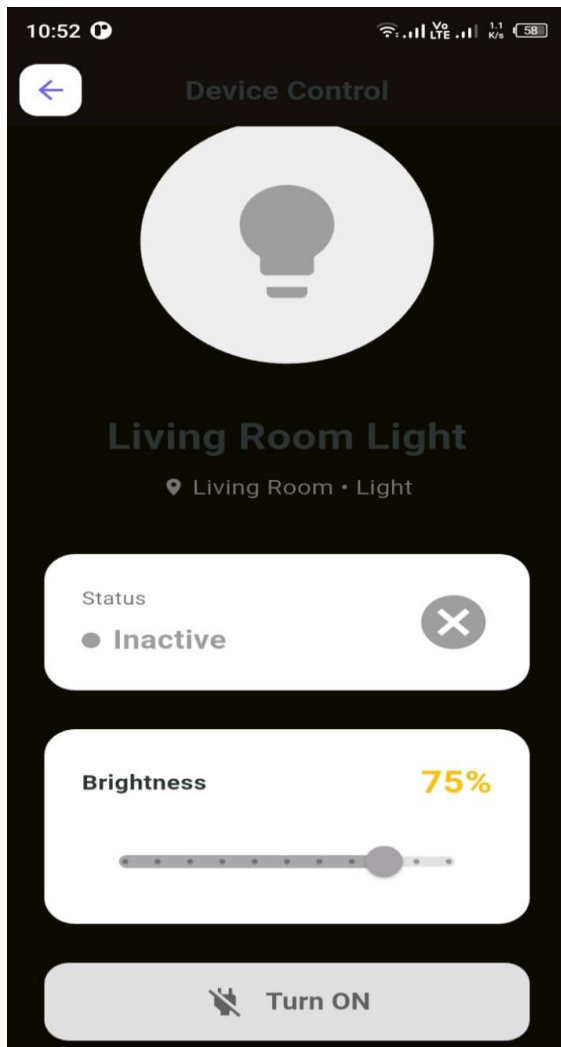
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3. Device Details Screen

When any device card is tapped (via **GestureDetector/InkWell**), app navigates to a new screen showing:

- Large device icon
- Current device status
- Slider control for brightness/speed/temperature
- Back button to return to dashboard





4. Add Device Functionality

FloatingActionButton opens a form to add a new device:

- Device name
- Device type (dropdown)
- Room name
- Status (ON/OFF – default OFF)

After submission, the device appears dynamically on the dashboard.

10:53

← Add New Device

+

Device Name

SONY HDR

Device Type

Light

Room Location

TV LOUNGE

Initial Status

Turn ON by default

+ Add Device

Cancel

10:53

≡ Smart Home Dashboard

My Devices

2 of 5 devices are ON

Living Room Light
Living Room
OFF

Bedroom Fan
Bedroom
ON

Kitchen AC
Kitchen
OFF

Front Door Camera
Entrance
OFF

SONY HDR
TV LOUNGE
ON

+ Add Device



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5. Stateful Interactivity

Stateful widgets are used for:

- Toggling device switches
- Updating real-time status
- Changing slider values
- Adding devices to the dashboard list

7. Responsive Layout

- UI adapts to various screen sizes using:
 - **Flexible, Expanded**
 - **MediaQuery**
 - Scroll support for smaller screens

8. Theming and Styling

- Custom **ThemeData** for app-wide colors, typography, and icons.
 - Modern, clean visual design for all screens.
-