



Flutter based demo applications for IVI dashboard

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About Me

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Agenda

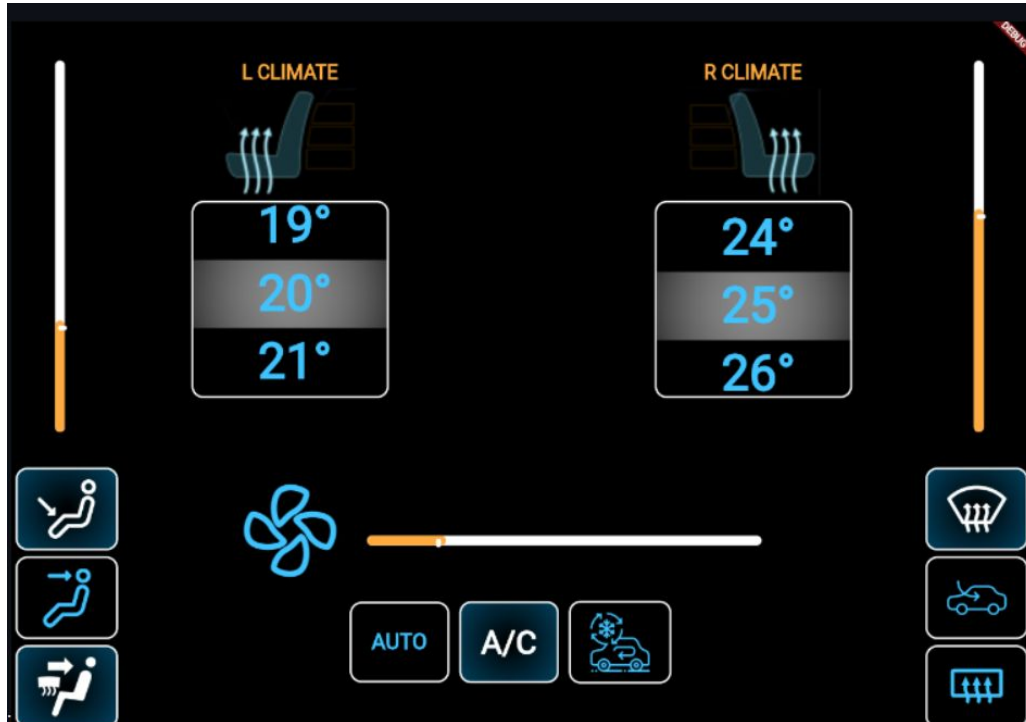
- Four Flutter Applications UI part which Includes **Dashboard, HVAC, MediaPlayer, Map Navigation** applications.
- Introduction to KUKSA.VAL (Backend)
- Demo apps on AGL demo platform



UI of HVAC, dashboard, Mediaplayer , Map Navigation

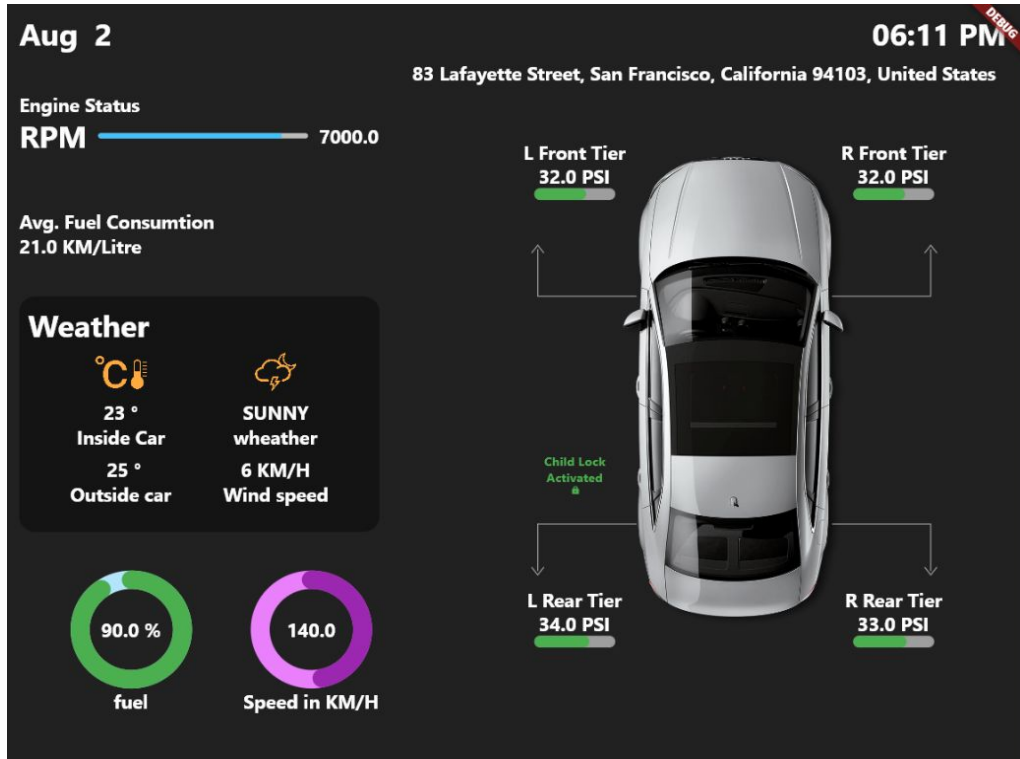
- To develop the UI of the apps, Flutter is used.
- Flutter is Google's open-source technology for creating mobile, desktop, and web apps with a single codebase.

HVAC app



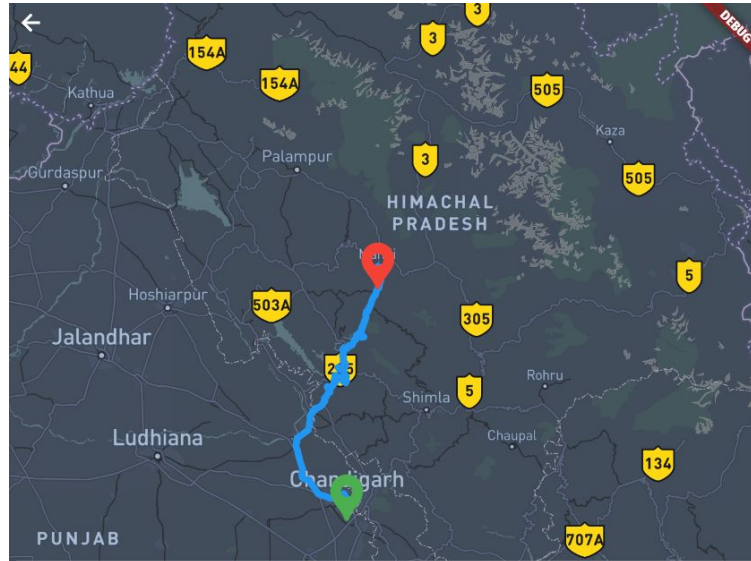
- AC vent direction
- Fan speed
- Rear and front defroster
- Left and Right Zone climate condition
- Air Circulation

DashBoard app



- Speed
- Fuel
- Car tyre Pressure
- Weather
- RPM of engine
- Child Lock status

Navigation app



Domino's Pizza, SMS Complex Property No118/2/9 First Floor Near Telephone Exchange
Mandi Himachal Pradesh Pin Code 175001, Mandi, Himachal Pradesh, India 📍
Chandigarh, Chandigarh, India

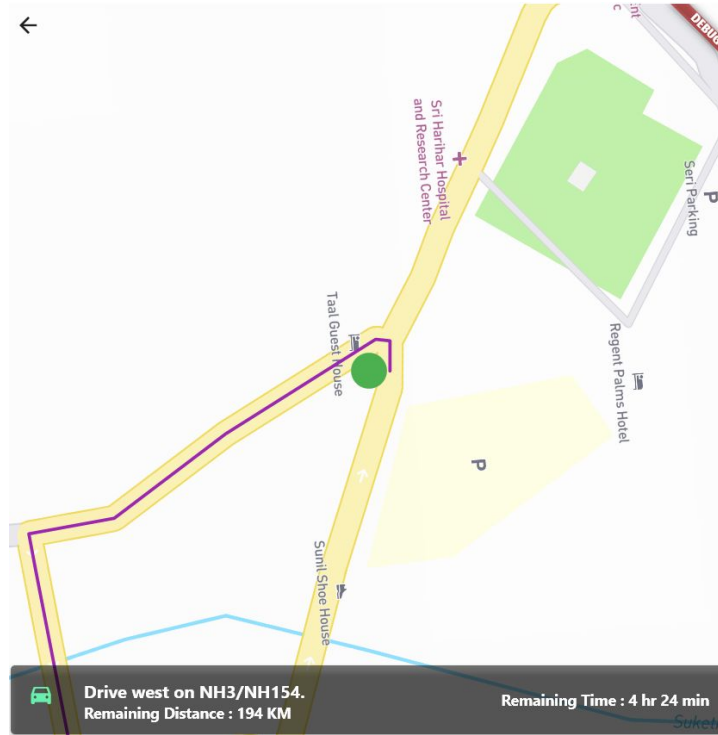


Happy Journey

194 km 4 hr 24 min

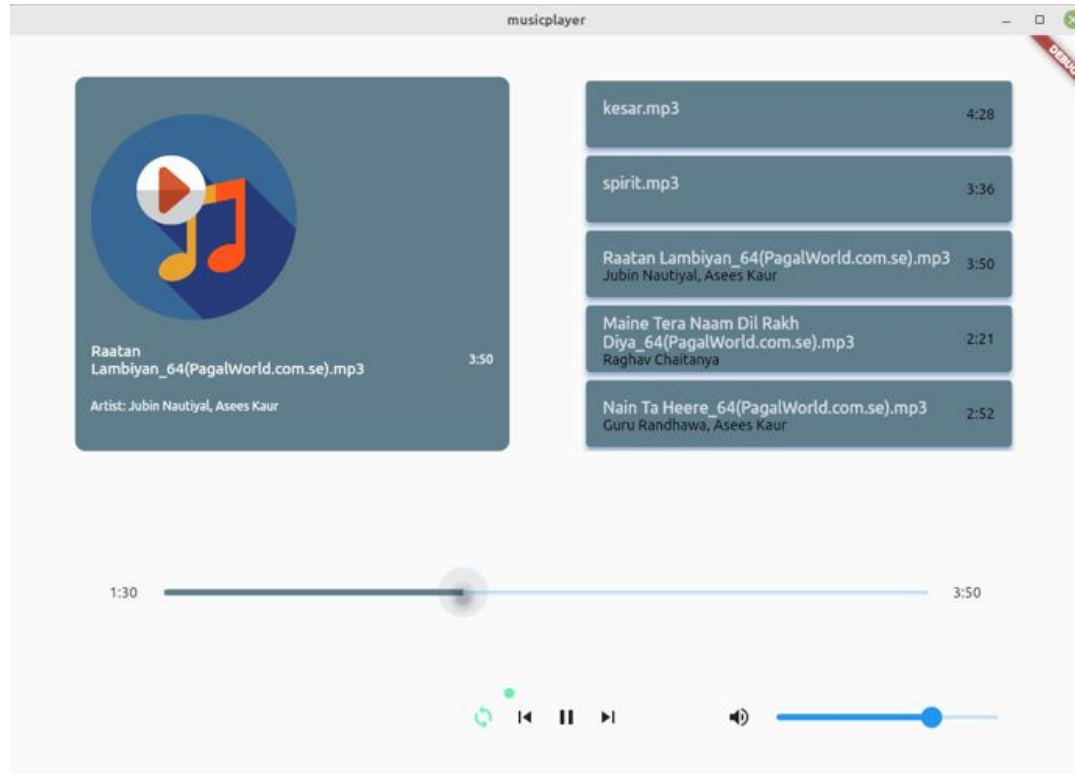


lets go



- Route to destination
- Turn by turn navigation
- Auto Complete destination address
- MapBox api

MediaPlayer





MediaPlayer

- Integrated with Media Player daemon server(MPD server).
- Connected with TCP socket.
- Shows Genre , artist , Durations of songs.
- Implemented all the function of media player such as play,pause,next , seek , loop , playlist.
- Directory path of Music files can be changed from mpd.conf file.



KUKSA.VAL SERVER

- It is a In-vehicle data server for set and get value in applications.
- Kuxa-val-server is used to serve the vehicle data to the app over websockets.
- It is based on VSS model which is written in C++.
- We can also add new signals to the VSS data.



IVI dashboard apps: AGL demo platform

- Add IVI dashboards apps to the AGL demo platform.
- Create recipe for all the apps.
- To run the navigation app you need Mapbox account and API.
- To run MediaPlayer app you need to setup MPD server and make needful changes in mpd.conf file.
- Detailed guide: [IVI Flutter apps](#)



Thank You