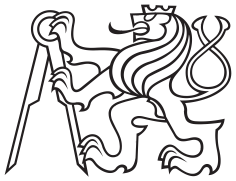
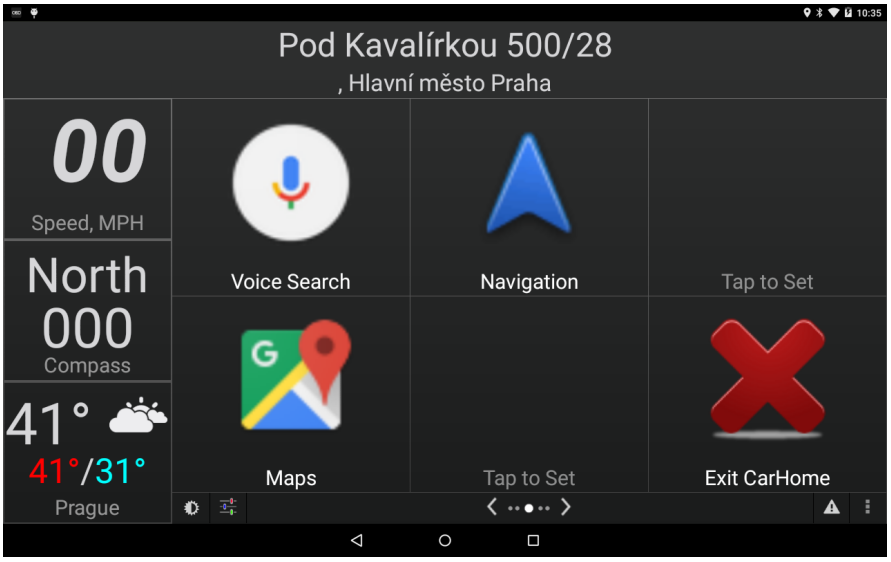
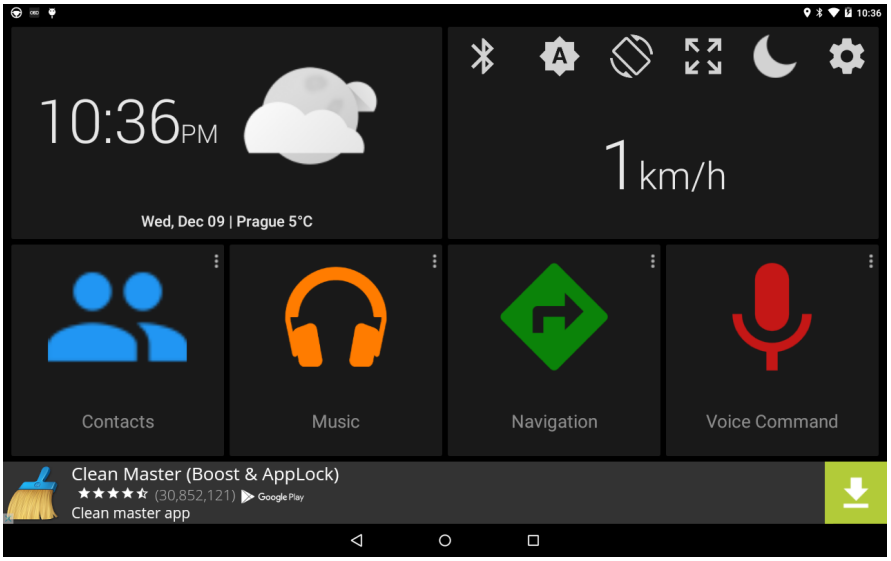
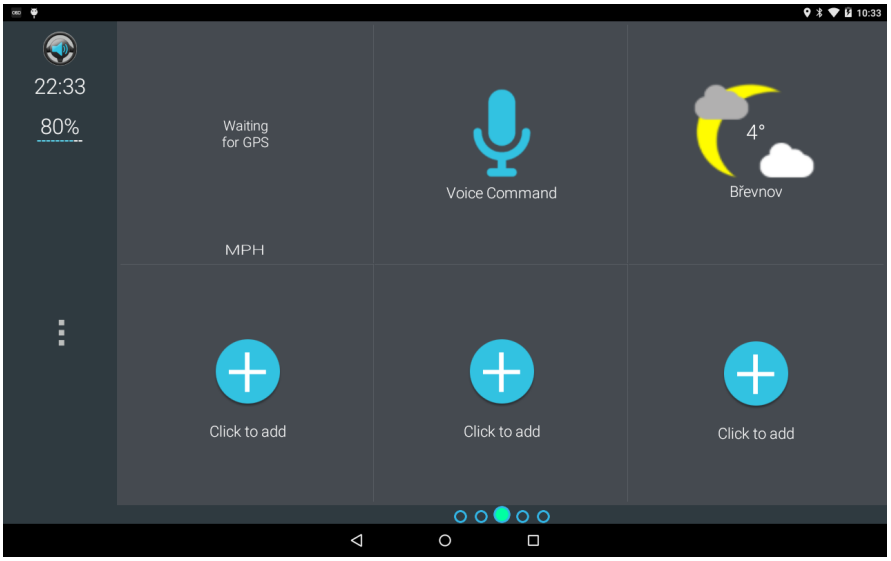
2 01Introduction TODO 1 11.1Project TODO 1 21.1.1Motivation TODO 1 11.2Assignment analysis 1 21.2.1Assignment tasks 1 02Analysis TODO 3 12.1Existing applications 3 22.1.1Applications TODO 3 22.1.2Torque 3 22.1.3CarHome Ultra 4 22.1.4Car Dashdroid 5 22.1.5Ultimate Car Dock 6 22.1.6Conclusion 7 22.1.7Android Auto 8 12.2Platforms 9 22.2.1Android 10 22.2.2iOS 10 22.2.3Windows 10 22.2.4Conclusion 10 12.3Android platform TODO 10 22.3.1Architecture TODO 10 22.3.2Specifics TODO 10 12.4GUI TODO 10 22.4.1Basic principles 11 22.4.2UI in a car environment 11 12.5Development and support tools TODO 12 22.5.1Development environment 12 22.5.2Version control system 13 22.5.3Test driven development TODO 13 22.5.4Continuous integration TODO 13 12.6On-Board Diagnostics TODO 13 22.6.1Overview TODO 13 22.6.2API TODO 13 22.6.3Data TODO 13 03Design TODO 14 13.1Application architecture TODO 14 23.1.1Extensibility TODO 14 23.1.2Modularity TODO 14 23.1.3Adaptability TODO 14 23.1.4AutoUI preparation TODO 14 23.1.5Platform limitations TODO 14 13.2GUI TODO 14 23.2.1Basic elements TODO 14 23.2.2UI drafts TODO 14 04Realization TODO 15 14.1Preparation TODO 15 24.1.1Environment TODO 15 24.1.2Versioning TODO 15 24.1.3Testing TODO 15 24.1.4Scripting TODO 15 14.2Core TODO 15 24.2.1Core TODO 15 24.2.2Data storage TODO 15 24.2.3Communication TODO 15 24.2.4Optimization TODO 15 14.3Modularity TODO 15 24.3.1Requirements TODO 15 24.3.2Integration TODO 15 14.4GUI TODO 15 24.4.1Common elements TODO 15 24.4.2Multiple designs TODO 15 05Testing TODO 16 15.1Code TODO 16 25.1.1Unit testing TODO 16 25.1.2Integration testing TODO 16 25.1.3System testing TODO 16 25.1.4Qualification testing TODO 16 15.2GUI TODO 16 25.2.1Heuristic testing TODO 16 25.2.2Testing with users TODO 17 15.3Summary TODO 17 06Conclusion TODO 18 16.1Assignment completion TODO 18 16.2Project life cycle TODO 18 26.2.1Present TODO 18 26.2.2Future TODO 18 16.3Summary TODO 18

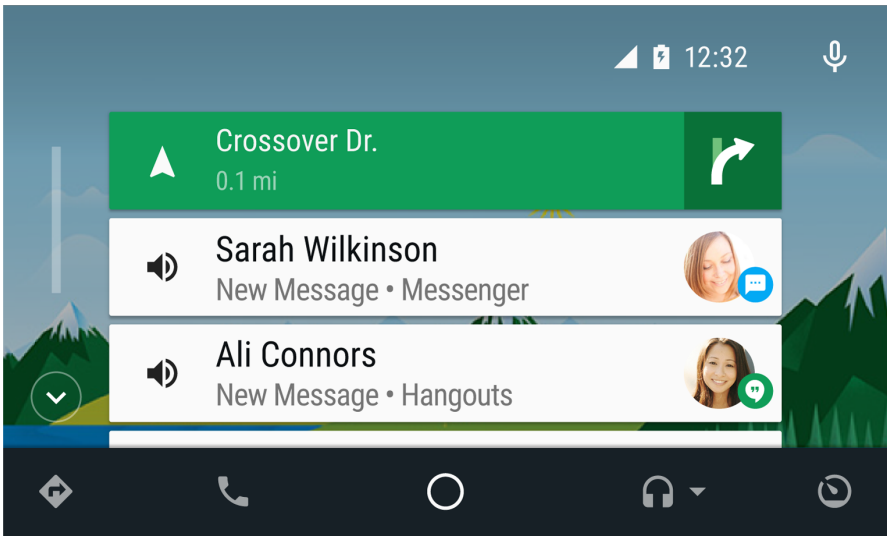


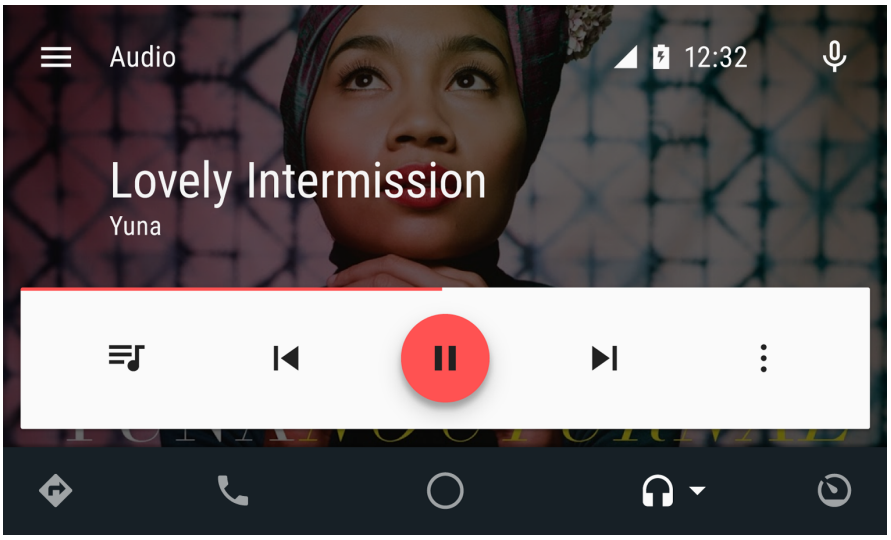
No paired bluetooth device set!
85 102
68 Speed 119
no data
51 136
34 153
17 170
55 66
44 LPK 77
no data
33 88
22 99
11 110
130 156
104 Baro 182
no data
78 208
52 234
26 260
150 180
120 GPS Height 210
266.0
90 240
60 m 270
30 0 300
55 66
44 Fuel 77
no data
33 88
22 99
11 110
385 462
308 Fuel Pres 539
no data
231 616
154 693
77 770
55 66
44 Throttle 77
no data
33 88
22 99
11 110
105 126
84 Trip 147
no data
63 168
42 km 189
21 210

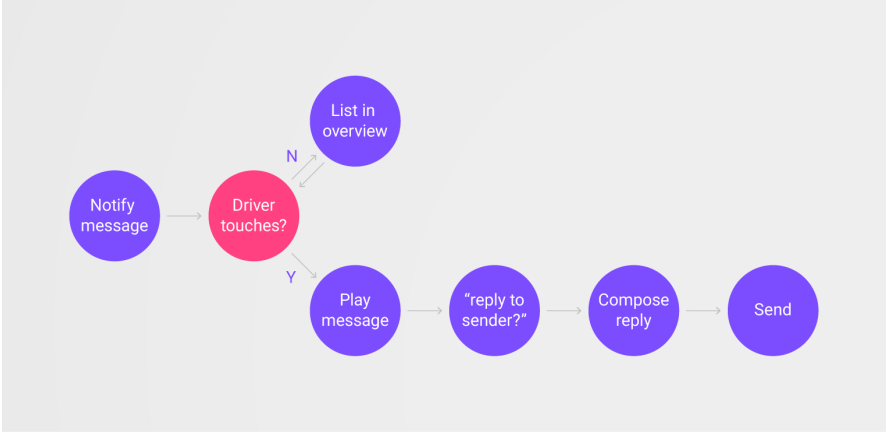

10:35
Pod Kavalírkou 500/28
, Hlavní město Praha
00
Speed, MPH
North
000
Compass
41°
41°/31°
Prague
Voice Search
Navigation
Tap to Set
Maps
Tap to Set
Exit CarHome


10:36
10:36PM
Wed, Dec 09 | Prague 5°C
1 km/h
Contacts
Music
Navigation
Voice Command
Clean Master (Boost & AppLock)
(30,852,121)
Google Play
Clean master app


22:33
80%
Waiting
for GPS
MPH
Voice Command
4°
Břevnov
Click to add
Click to add
Click to add


12:32
Crossover Dr.
0.1 mi
Sarah Wilkinson
New Message • Messenger
Ali Connors
New Message • Hangouts


Audio
12:32
Lovely Intermission
Yuna


List in overview
N
Notify message
Driver touches?
Y
Play message
“reply to sender?”
Compose reply
Send