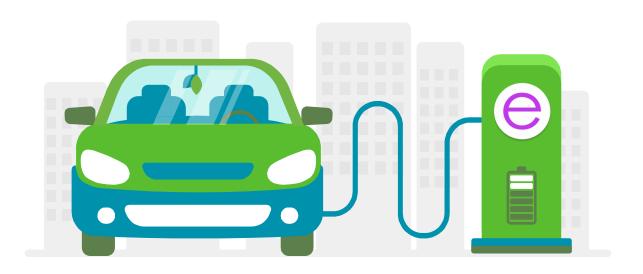
eMall – e-Mobility For All

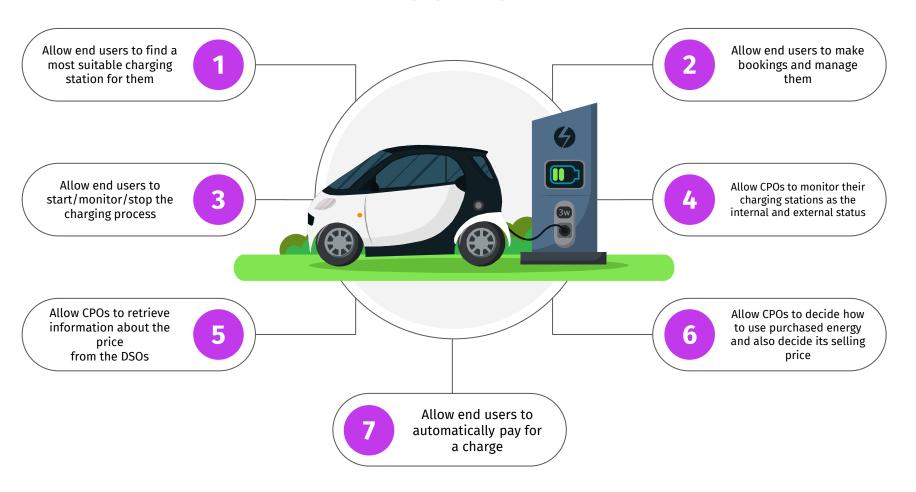
R&DD



Software Engineering 2 Project Academic year 2022 – 2023

> Balestrieri Niccolò Bertogalli Andrea Tombini Nicolò

GOALS



WORLD & MACHINE PHENOMENA

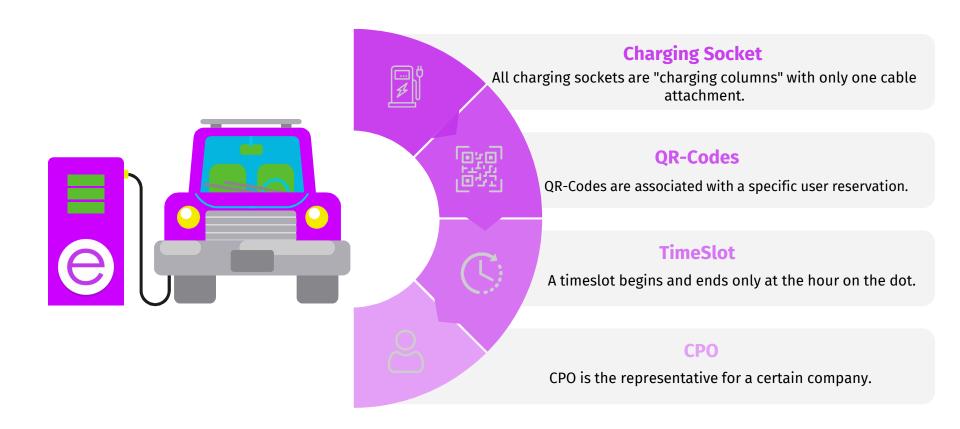
World Phenomena

End user drives to the chosen charging station
End user needs to charge his vehicle
End user leaves the charging station
CPO owns the charging station

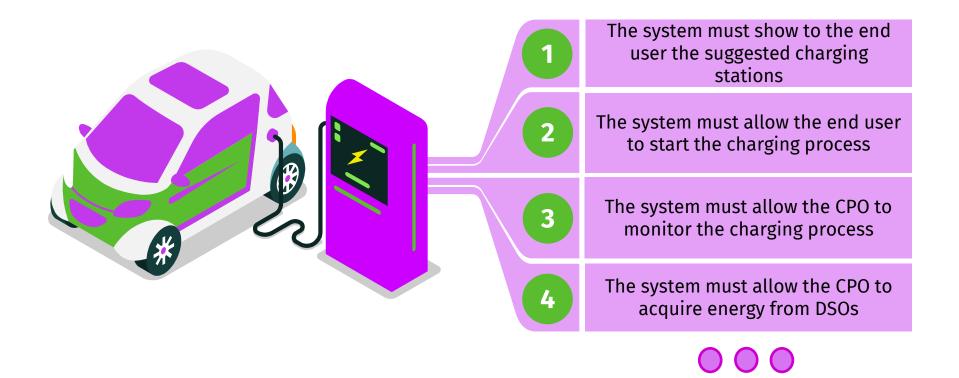
Machine Phenomena

eMall shows stations which are near to the user eMall shows costs and offers about the station eMall provides a QR-Code scanner to check bookings eMall shows to the CPO information about available DSOs

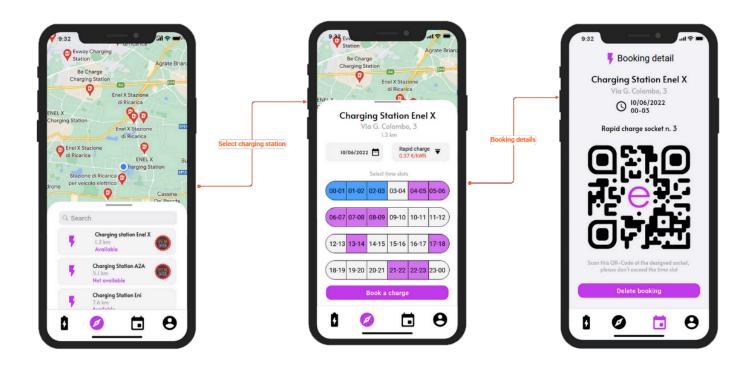
DOMAIN ASSUMPTIONS



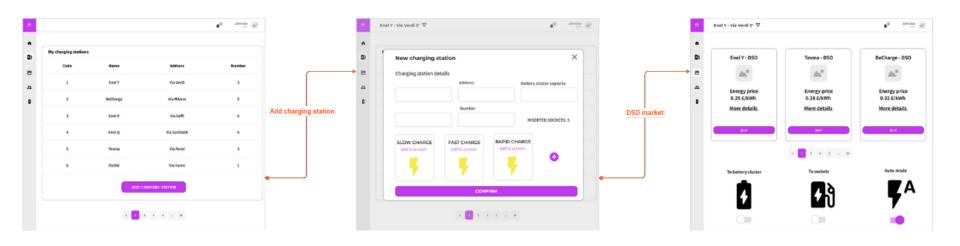
REQUIREMENTS



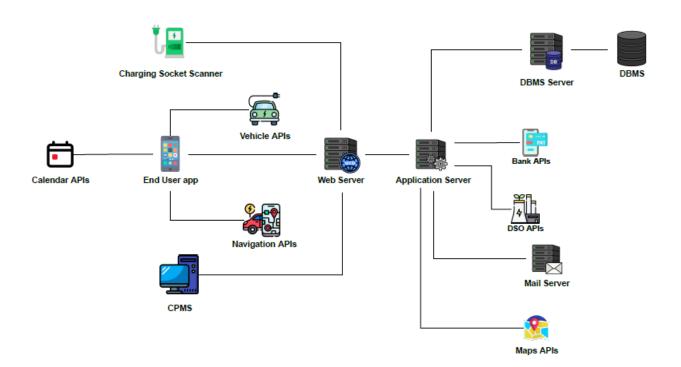
USE CASES – New Booking



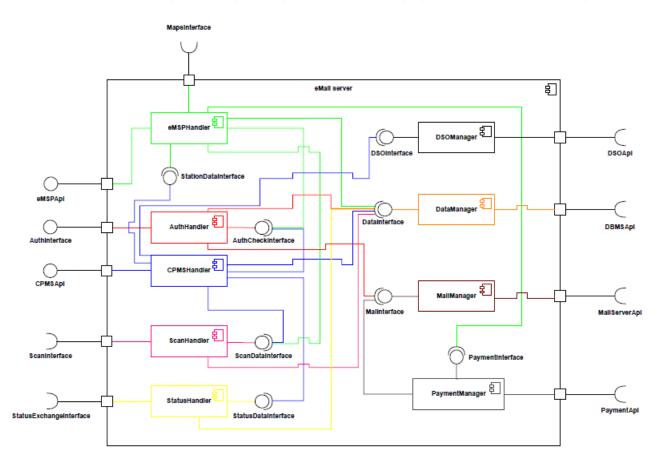
USE CASES – Charging Stations Management



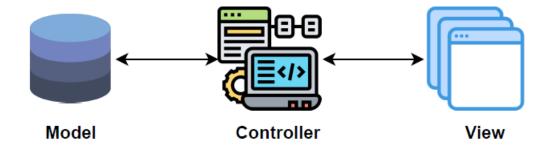
ARCHITECTURAL STYLE



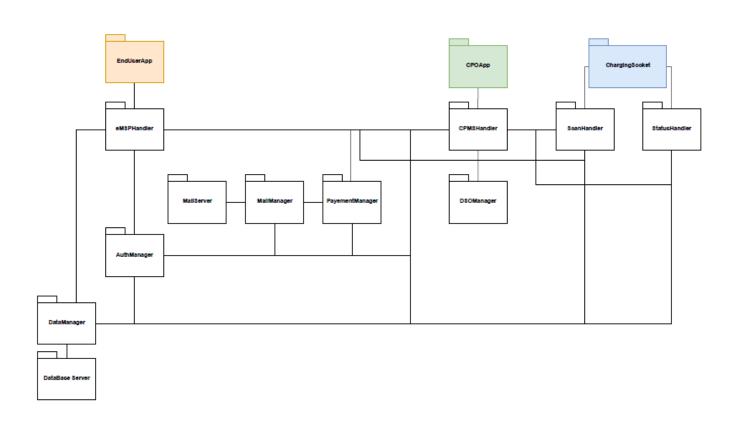
APPLICATION SERVER COMPONENTS



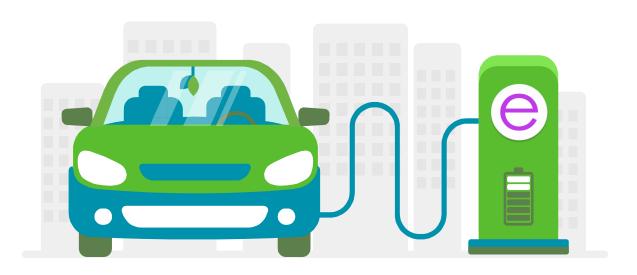
PATTERN - MVC



IMPLEMENTATION, INTEGRATION AND TESTING



eMall – e-Mobility For All



Software Engineering 2 Project Academic year 2022 – 2023

> Balestrieri Niccolò Bertogalli Andrea Tombini Nicolò

FRAMEWORKS & LANGUAGES

27% + 3%

NODEJS and MOCHA

30%

FLUTTER

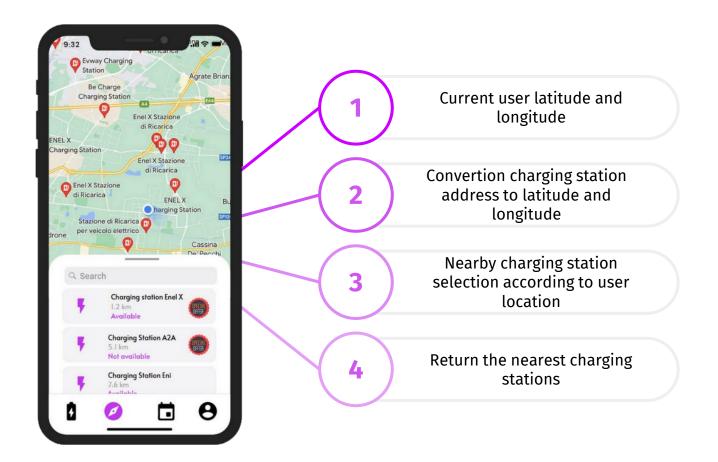
30% REACTJS

10%

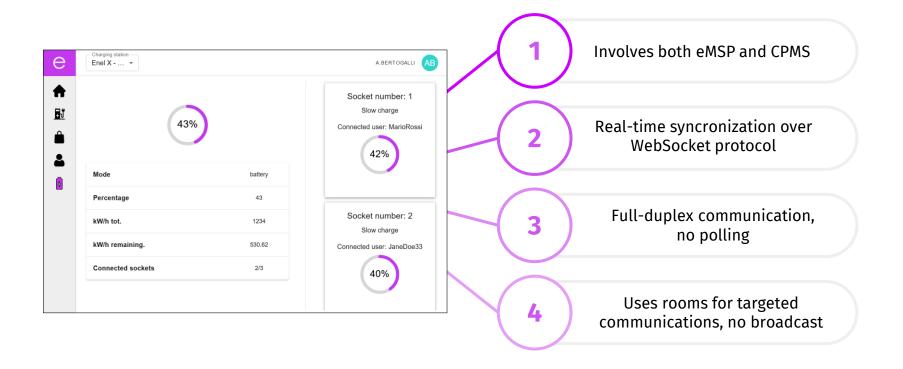
JAVA FOR

ANDROID

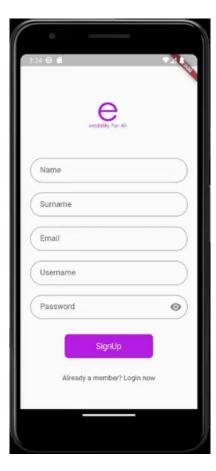
NEARBY CHARGING STATIONS



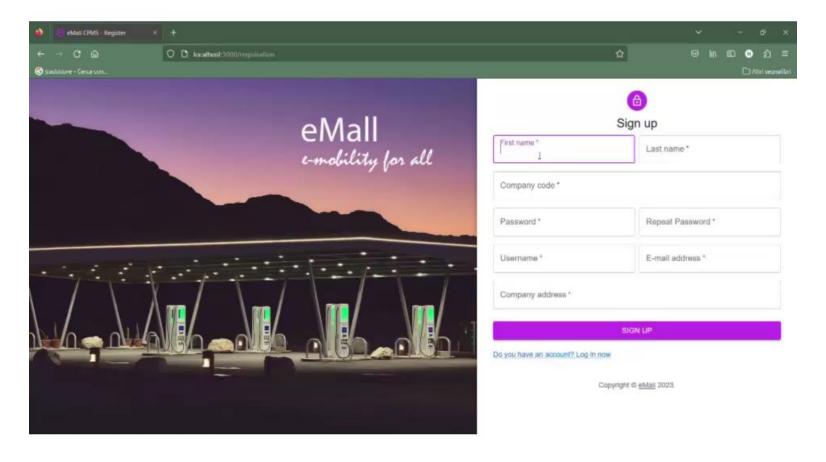
REAL-TIME CHARGE



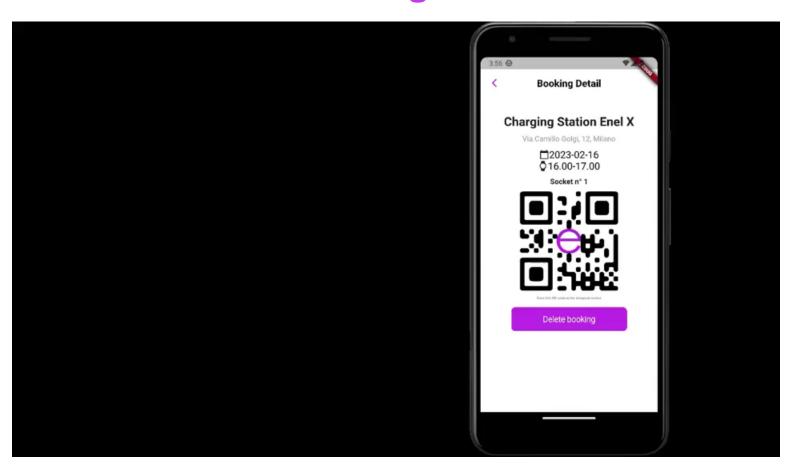
DEMO – EndUser App



DEMO – CPO App



DEMO – Charge Process





THANKS FOR YOUR ATTENTION.

Software Engineering 2 Project Academic year 2022 – 2023

> Balestrieri Niccolò Bertogalli Andrea Tombini Nicolò