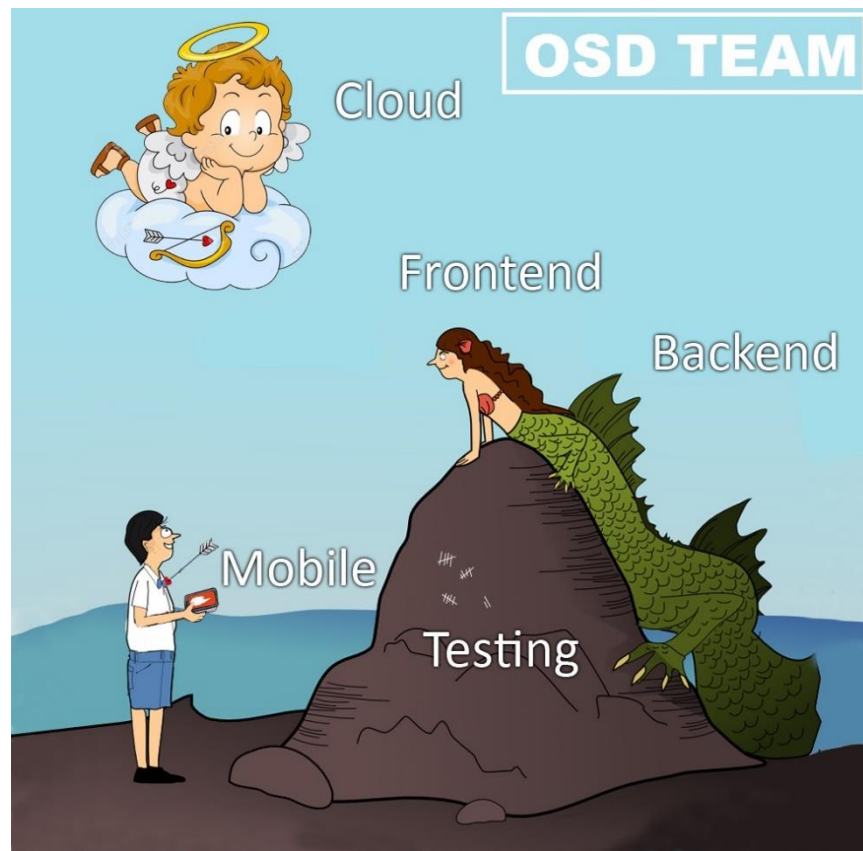


OSD – Under the hood

Flavia Obreja, Alexandru Popescu

OSD (ORTEC Software Development) – Under the hood

- Teams
- Solutions
- Technologies
- Architecture
- Development process
- Projects



Solutions

Vehicle Routing



Workforce Scheduling



Service Planning



Load Building and Refill Forecasting



Technology Stack

- Microsoft technologies
- Use industry standard technologies
 - Bootstrap - Cross-browser/device support
 - AngularJS 1.6
 - Web API 2
 - Xamarin
 - HockeyApp
 - Firebase
 - Azure
 - PowerShell
 - T-SQL



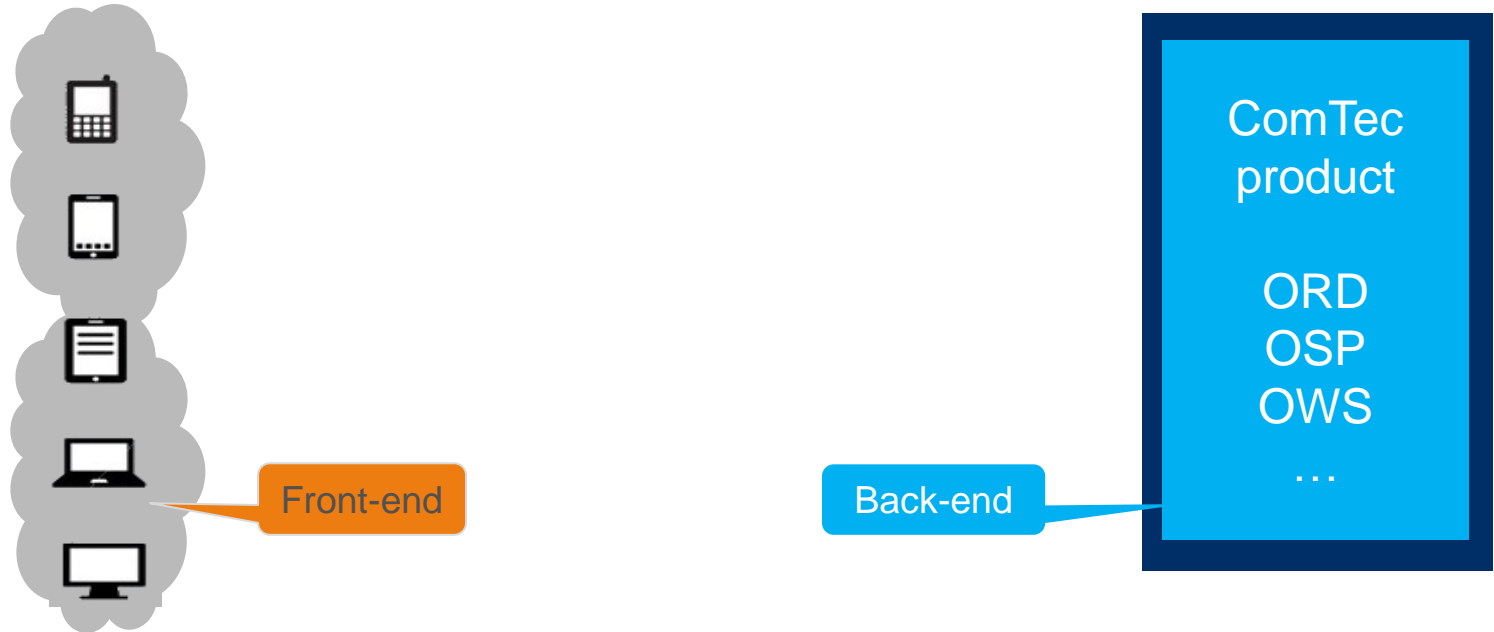
General Tools & Sources



PERFORCE

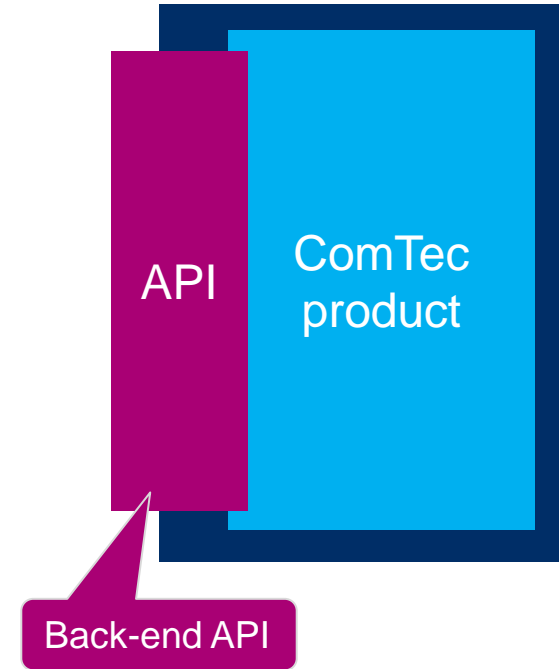


Architecture

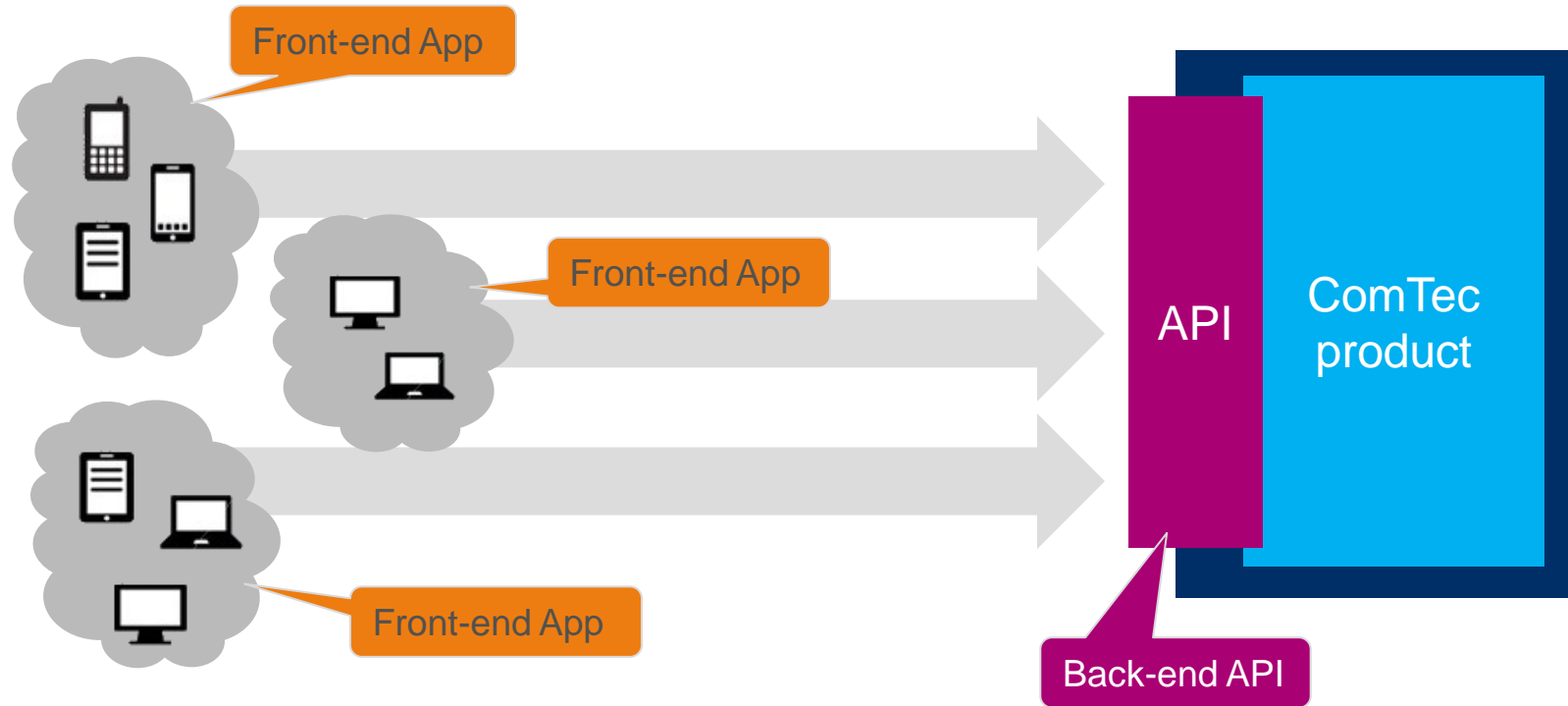


Architecture – Back-end API

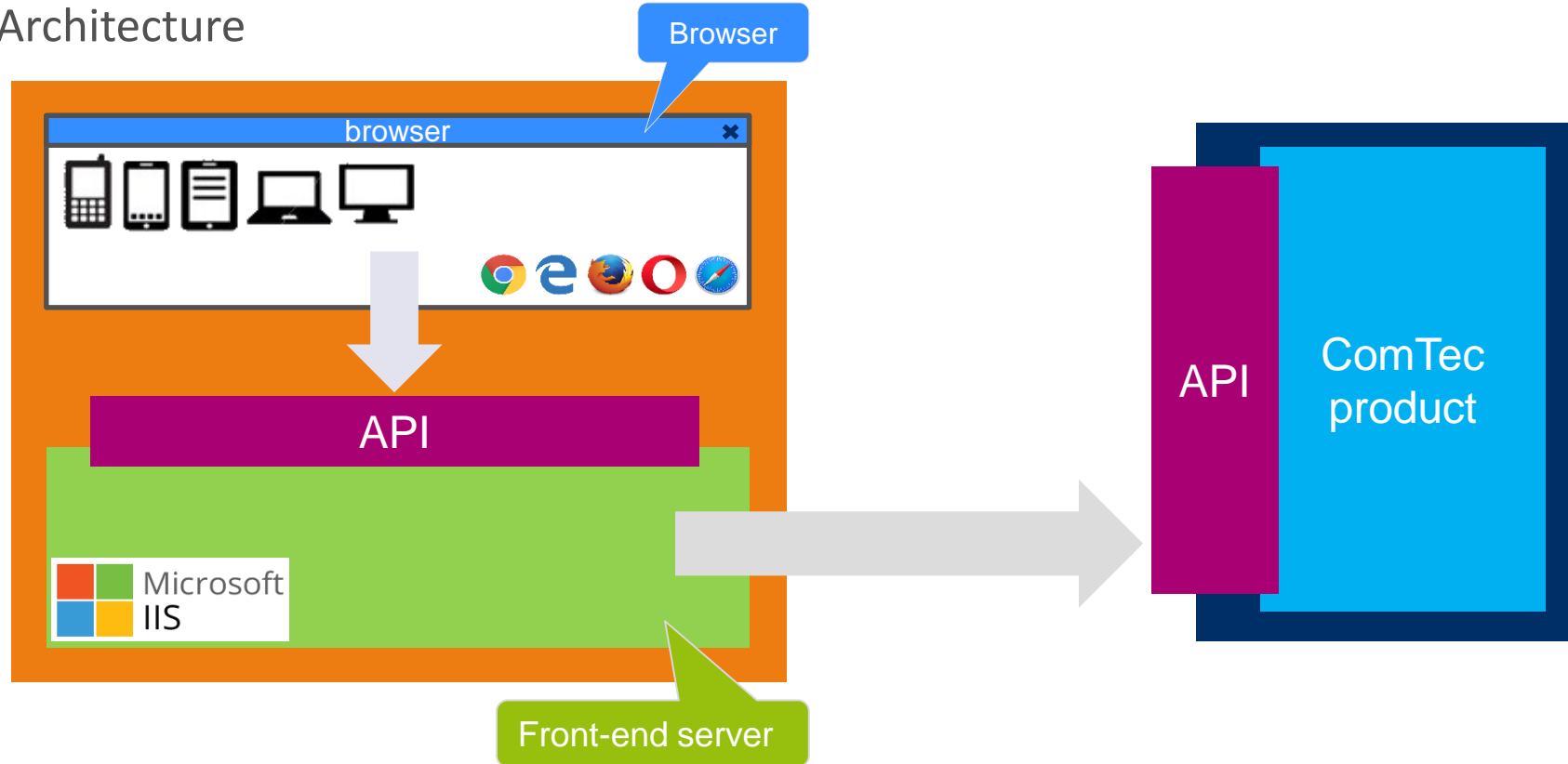
- To be used by front-end apps
- Well defined
- Versioned
- Highly scalable
- Secure
- Built using well known standards
 - HTTP
 - REST
 - OAuth2
- External interface of product



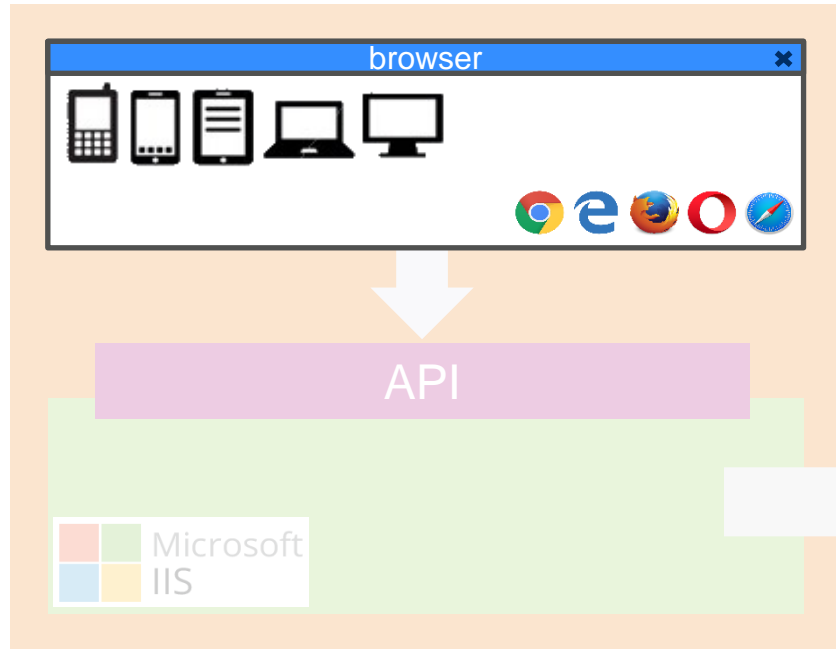
Architecture



Architecture

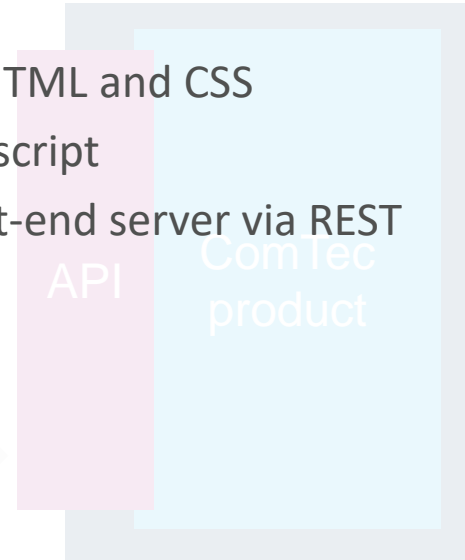


Architecture

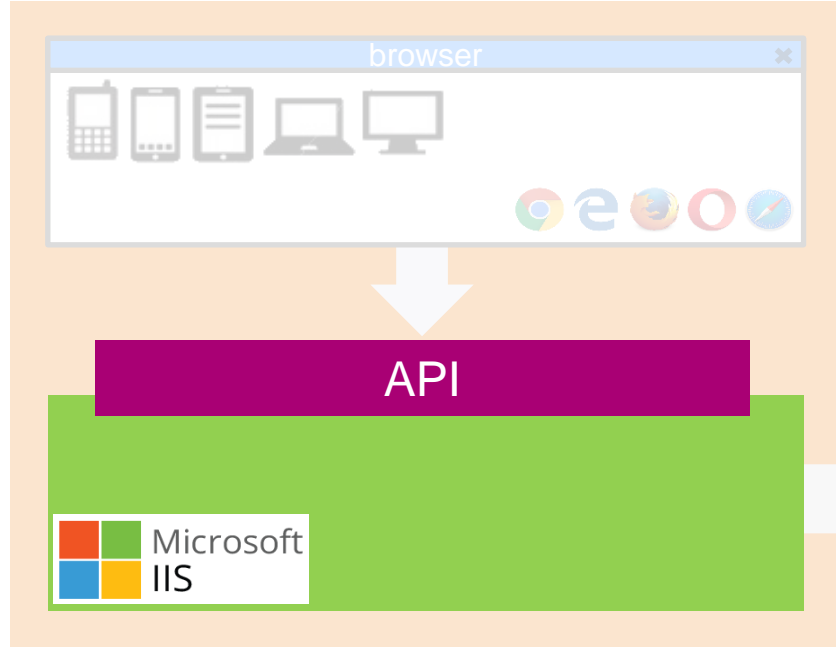


Browser

- Renders HTML and CSS
- Runs Javascript
- Calls Front-end server via REST



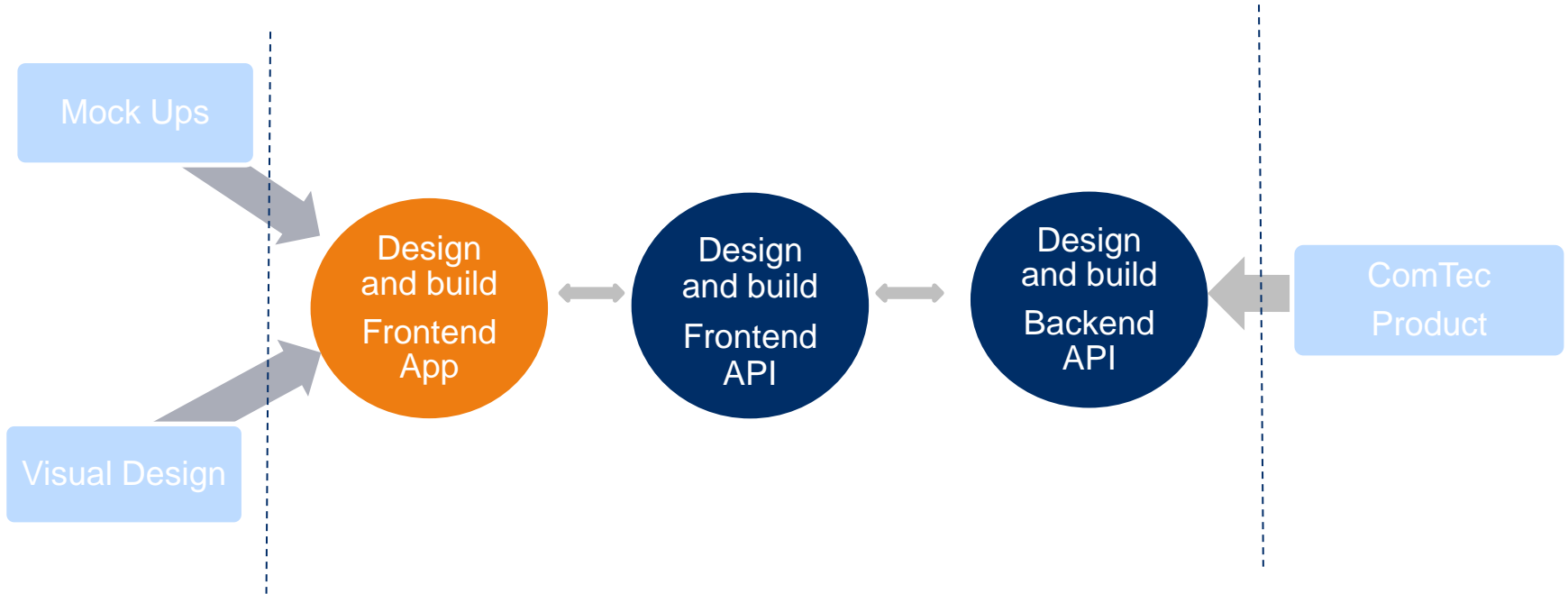
Architecture



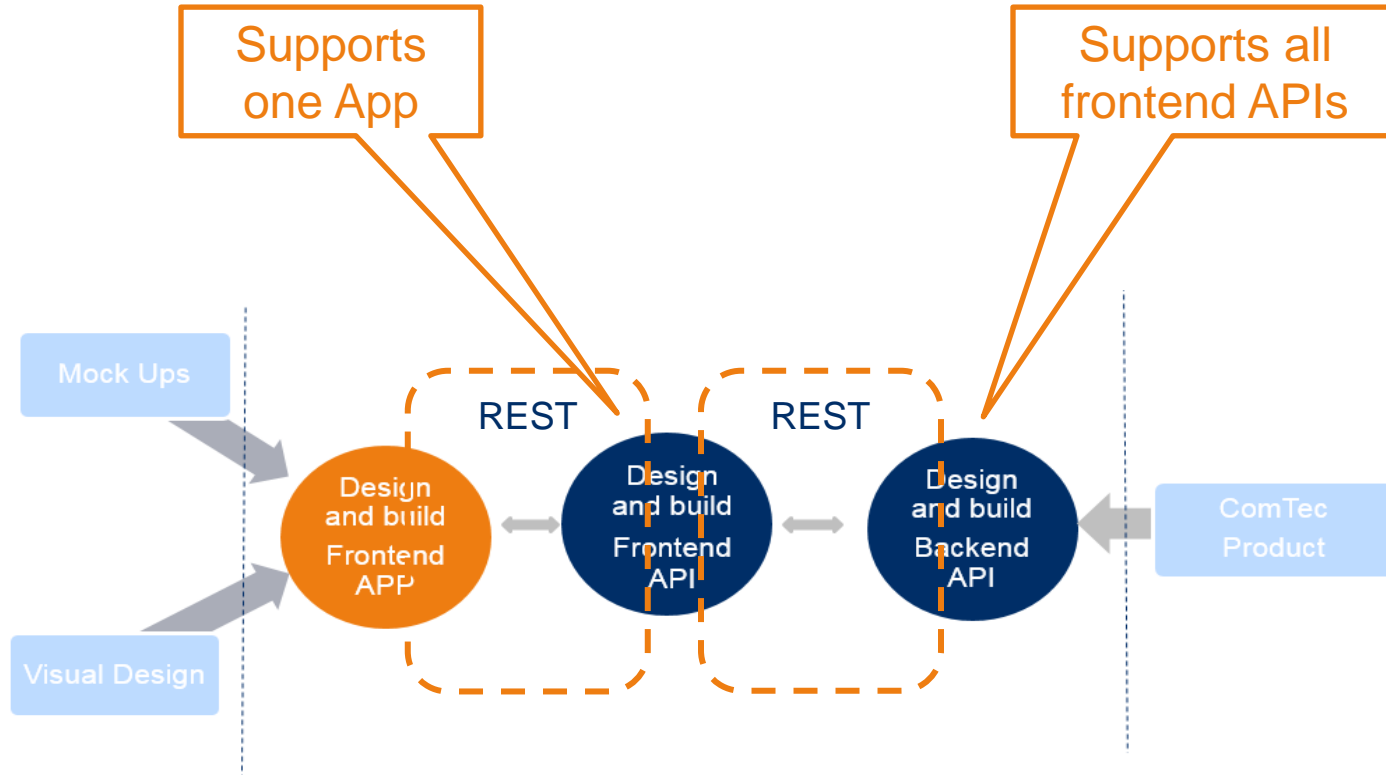
Front-end server

- Internet server for HTML, CSS, Javascript files
- Provides REST Web API to be called by Javascript in browser
- Calls Back-end server using REST
- Stateless

Development process 1



Development process 2



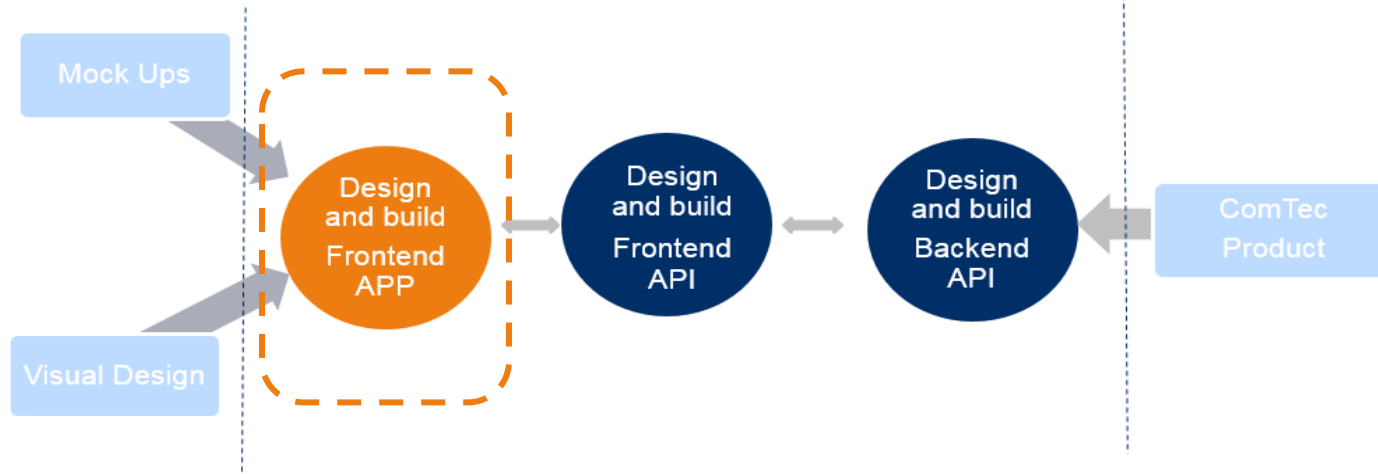
Technologies



ANGULARJS



Jasmine

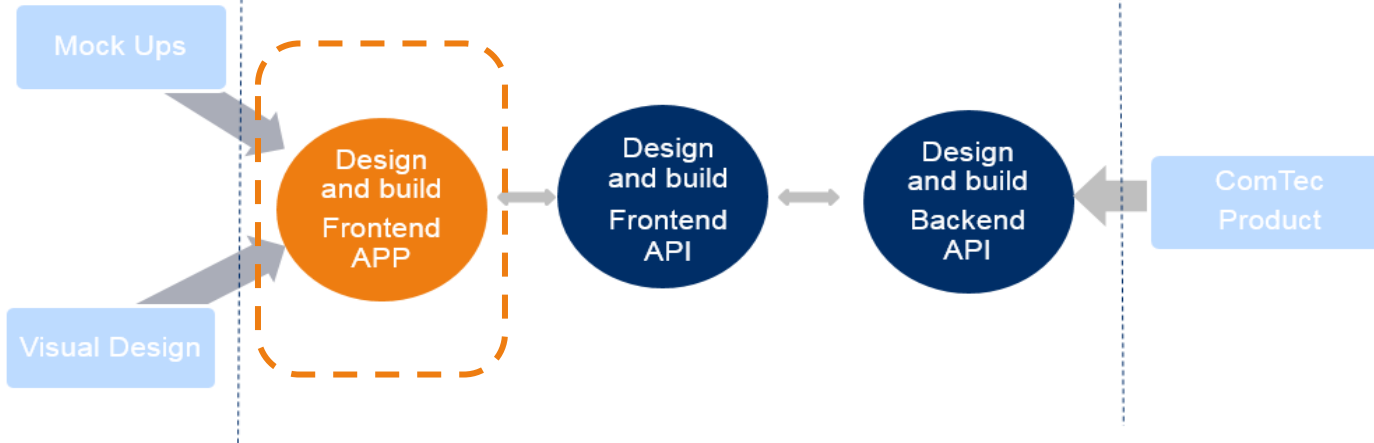


Technologies - responsiveness and styling

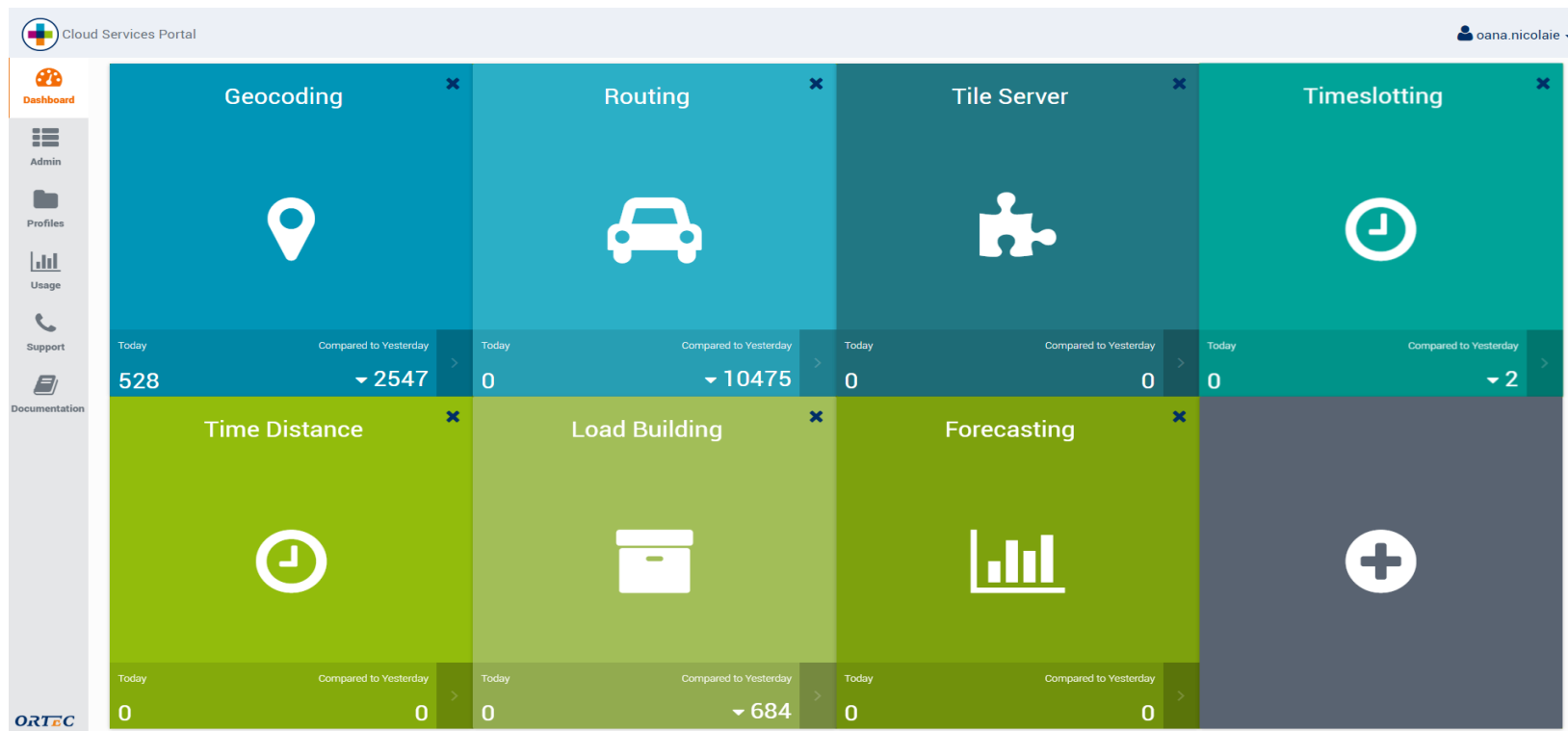


Materialize

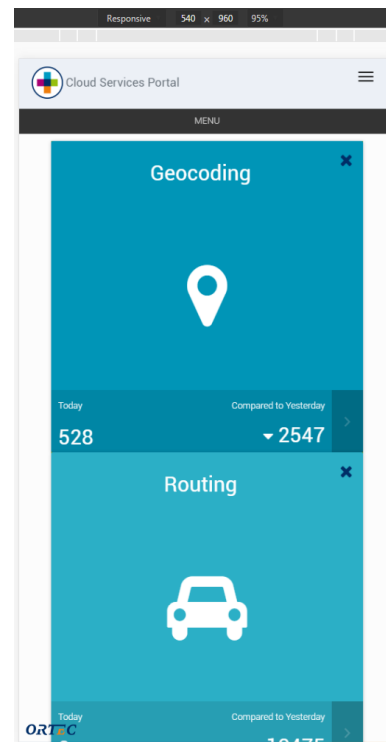
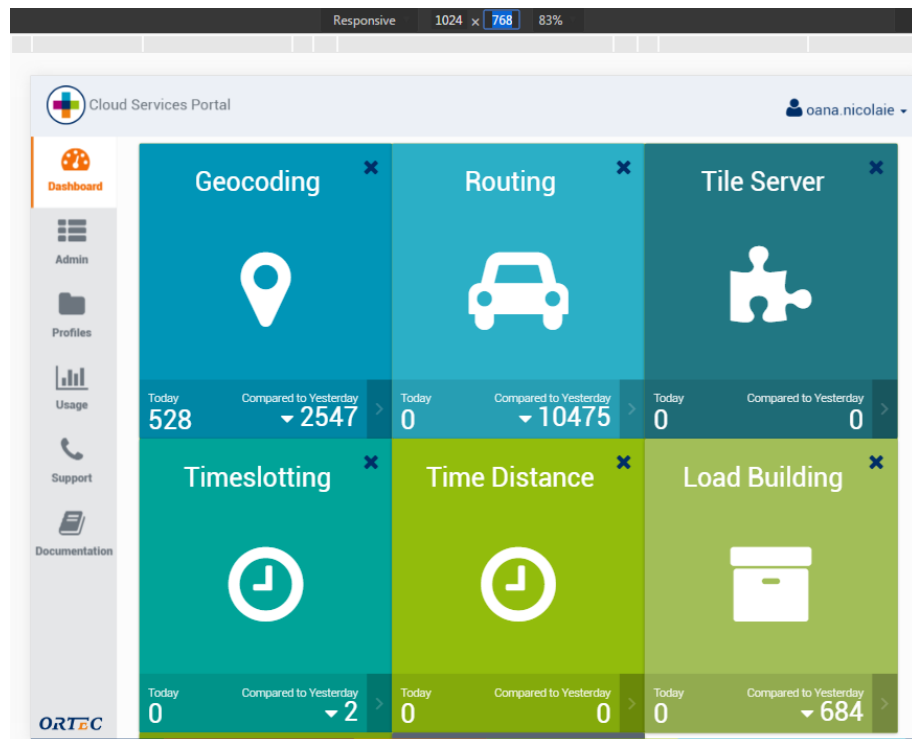
A modern responsive
front-end framework based on Material Design



Responsiveness – desktop view



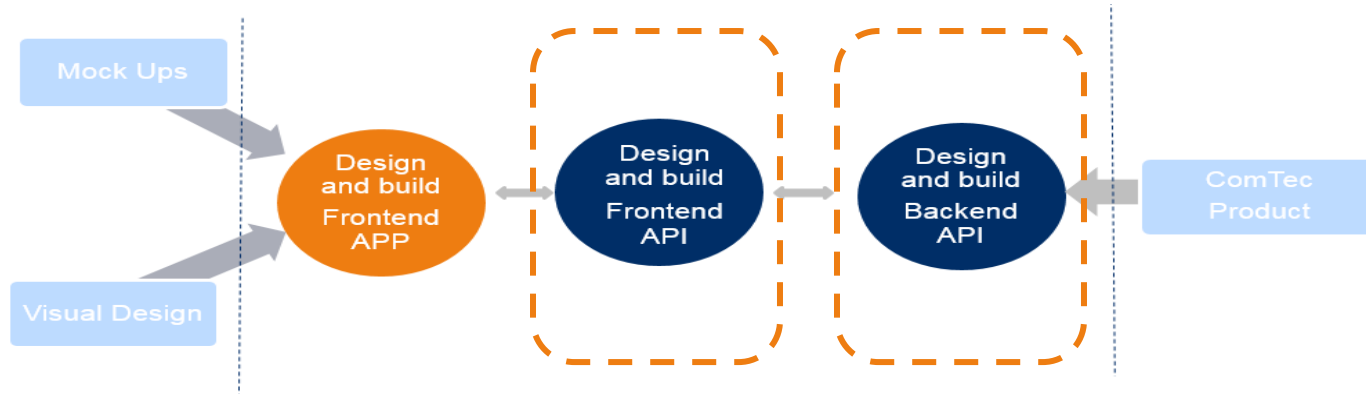
Responsiveness – tablet and mobile view



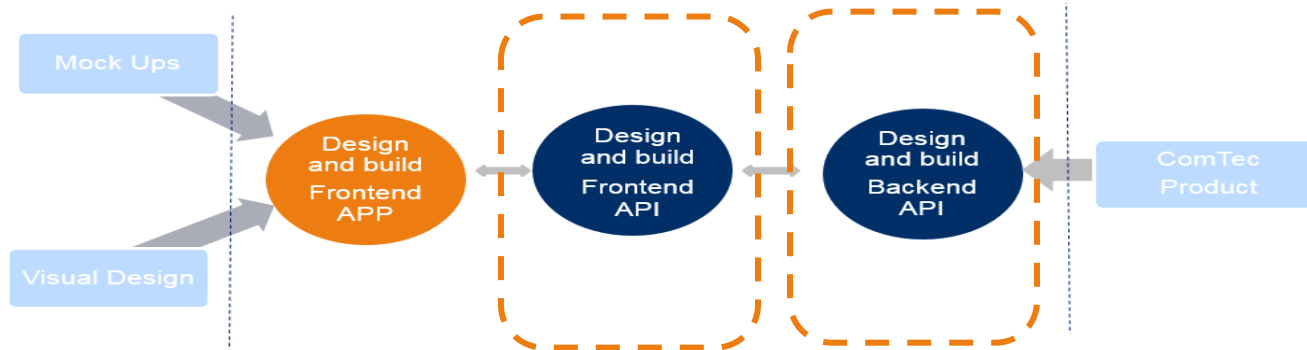
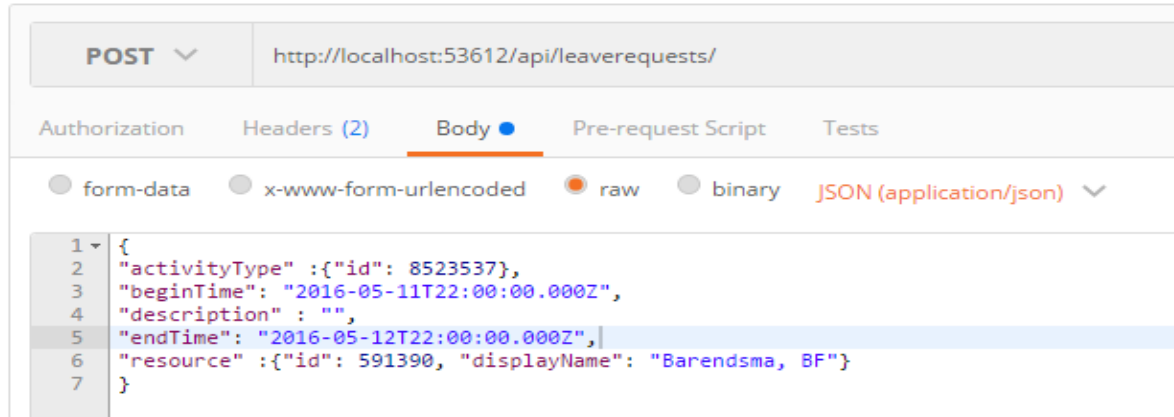
Frontend / Backend APIs - Technologies



ASP.NETWeb API 2

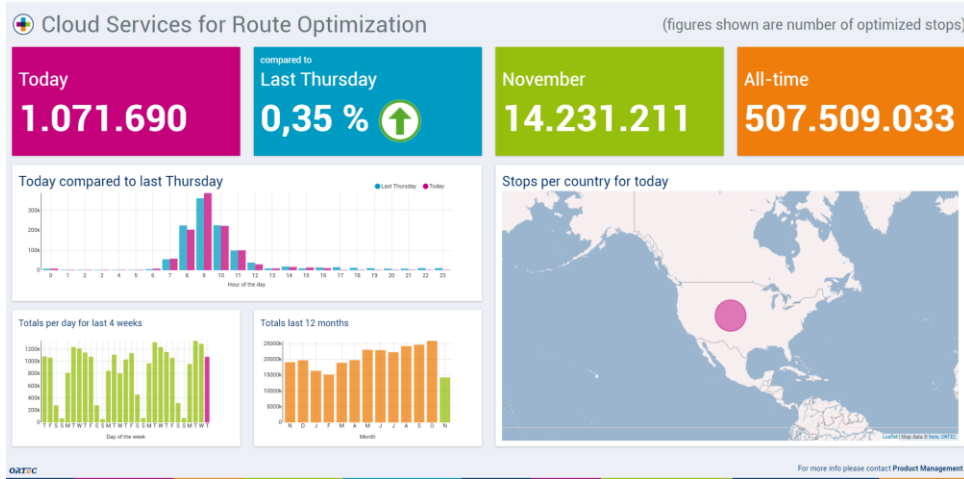


Frontend / Backend APIs - Tools



Insights

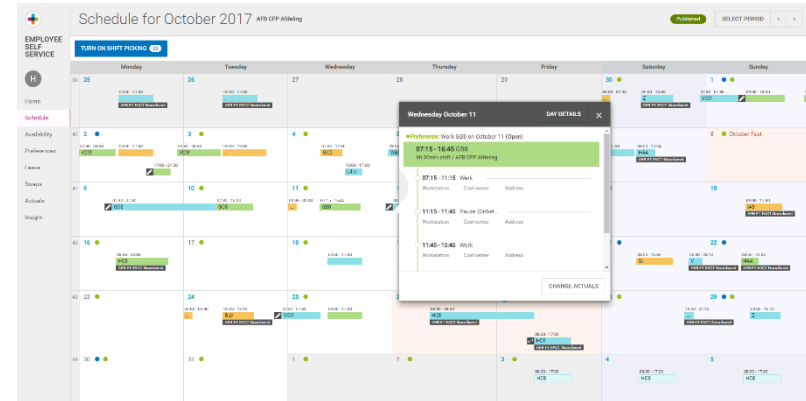
500 milion routes optimized with our cloud services



44000 users on
Android apps



5 web portals in development



What do we stand for

Continuous personal development

- Trainings and courses
- Flexibility to join teams or projects
- We encourage knowledge sharing

Nice work environment

- Team activities
- Benefits
- Modern office



