

CASE STUDY

HMI DESIGN AND TELEMATICS APPLICATION FOR HIGH-END INFOTAINMENT SYSTEM

Client Background

The client is a leading company working in automotive segment, specializing in telematics, infotainment and car connectivity and automotive safety. The company offers a vast range of vehicle solutions aimed to facilitate driver and passengers with unique media and communications abilities, as well as adjust any onboard computing system to ensure smooth road-side assistance, car location, and fleet management. Their innovative approach to car safety and intelligence revolutionizes automotive industry.

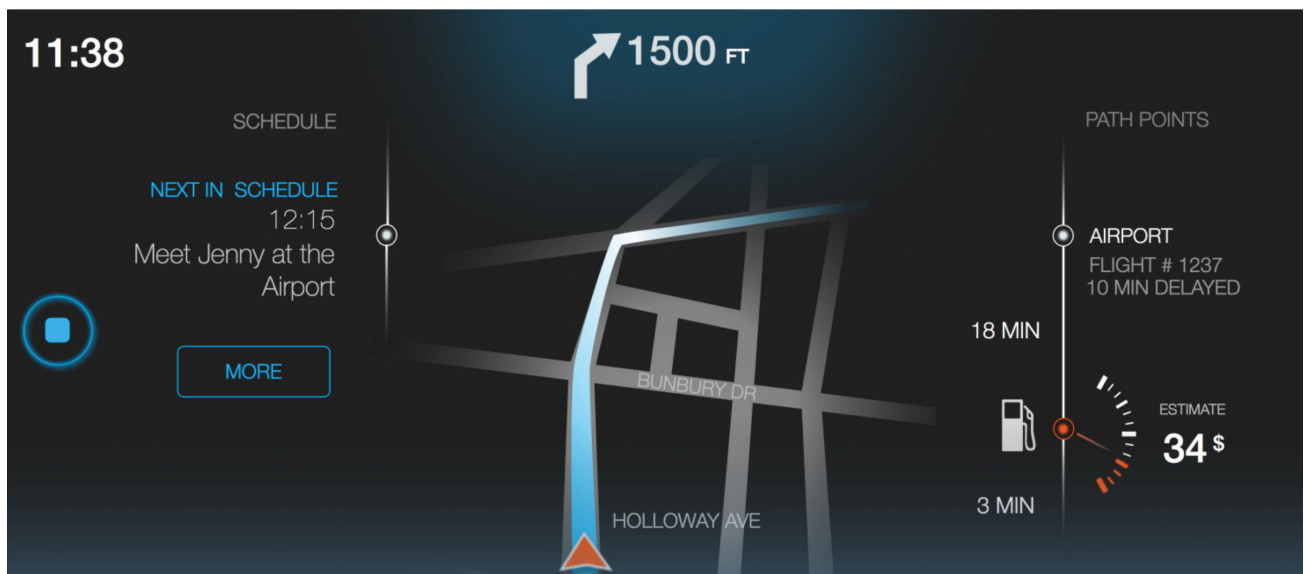
Business Challenge

A leading vehicle manufacturer wanted to build a unique infotainment system for their future vehicle models. The key objectives included development, HMI screens, modules, infotainment themes, and telematics application for iOS and Android with full test coverage and time-to-market. The client was looking for an engineering partner who could successfully manage such activities as HMI & applications development, verification & validation along with strong program governance, delivery, and quality management, UI/UX and security capabilities.

Project Description

As SoftServe possesses deep domain expertise and delivery excellence, the client trusted us to perform the following activities across the development lifecycle:

- Business Analysis to identify gaps in HMI requirements;
- HMI design & application development around applications such as Navigation, Bluetooth, Wi-Fi, Audio/Radio, Media, Connection Manager, Messaging, Phone, Vehicle Functions, etc.;
- HMI screens development leveraging UI/UX expertise;
- Telematics solutions development for iOS and Android;
- Solution provided for OEM specific requirements with GENIVI Connection Manager;
- Worked on extensive set of tools used across;
- The complexity of the engagement demanded multilocation development, periodic delivery reviews for achieving the above milestone and rigorous quality control
- Verification & validation strategies for unit, functional and integration testing



As a result of the project, SoftServe delivered:

- 300+ Features
- 400+ HMI Screens
- 15 Modules
- 5 HMI Themes
- 2 mobile application

Within this system, a user can create a profile on their smartphone synchronizing it with a range of presets including seats, mirrors, calendar, climate control, multimedia and navigation. This way a user may remotely control a car (alarm, door, engine, location, crash sensors, etc.) via web or a smartphone, schedule car service, send and receive emergency notifications, track driver's condition, apply smart routing, etc.

Value Delivered

Being completed on time and on budget, SoftServe's project resulted into the following benefits for the client:

- High quality control with focus on tools and automation: 100% reviewed artifacts, 100% coverage of critical use cases, defects identified and revisited;
- Verification & Validation Strategies - 100% traceability with respect to the requirements;
- Quick ramp up capabilities - SoftServe scaled up to 6 times of its initial team within 3 months. SoftServe's robust delivery processes & well organized team structure helped achieve all the deliverables within the desired time;

ABOUT US

SoftServe is a global digital authority and consulting company, operating at the cutting edge of technology. We reveal, transform, accelerate, and optimise the way large enterprises and software companies do business. With expertise across healthcare, retail, media, financial services, software, and more, we implement end-to-end solutions to deliver the innovation, quality, and speed that our clients' users expect.

SoftServe delivers open innovation – from generating compelling new ideas, to developing and implementing transformational products and services. Our work and client experience is built on a foundation of empathetic, human-focused experience design that ensures continuity from concept to release.

Ultimately, we empower businesses to re-identify their differentiation, accelerate market position, and vigorously compete in today's digital, global economy.

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