09 Fleet Management

Industry	Transport/Fleet Management	- Client	CAR5 – Carsharing Service
Role	Project Manager, Solution Architect		
Key Result	A car-sharing service was launched from scratch, featuring its own application and mobile application, and an integrated management system was delivered. The infrastructure was migrated to AWS Cloud, significantly improving transparency and system reliability.		

Situation Task Action Result Project Team Formation: I assembled and organized the team A Carsharing Service Launched from Scratch The client (CAR5) planned to launch In my roles as Solution Architect responsible for developing and implementing the car-sharing with Custom Applications: A fully functional a new carsharing service from and Project Manager, my task was service. Requirements Gathering and Analysis: Conducted a carsharing platform was successfully created detailed collection and analysis of business requirements for scratch and faced the necessity of to establish the carsharing service and implemented, including its own custom the carsharing service, including user scenarios, operational processes, and technical specifications. Solution creating all the required IT entirely from scratch. This involved web and mobile applications. Architecture Design: As a Solution Architect, I developed a **Integrated Fleet Management System:** comprehensive architecture for the car-sharing platform, infrastructure and software for fleet team formation, requirements Seamless interaction was achieved between encompassing the backend, frontend, databases, and gathering and analysis, solution management. This included mechanisms for interaction with IoT devices and external various system components, including in-car services. Technology Stack and Cloud Platform Selection: integration with in-car IoT devices, design, implementation, integration IoT devices. Made decisions on using PHP and Web for application **Enhanced Operational Transparency:** The development, 1C for internal accounting processes, and AWS interaction with third-party service with in-car IoT and third-party Cloud for hosting the entire infrastructure, ensuring scalability system provides full transparency of all and reliability. **Development and Implementation** providers, and ensuring high system service providers, and the migration operations related to car usage, their status, Management: As Project Manager, I oversaw the entire reliability and scalability to support of all IT infrastructure to the AWS and interactions with clients. software development lifecycle, ensuring that the developed modules met requirements, and managed the implementation Significantly Improved System Reliability: The a growing user base and fleet. cloud. The ultimate goal was to process. Integration with IoT and Service Providers: Led migration of infrastructure to AWS Cloud and efforts to integrate the system with IoT sensors, installed in deliver an integrated management architectural decisions led to high fault cars (for tracking location, door status, fuel level, etc.), as well as with various external service providers (payment systems, tolerance and reliability of the carsharing system, enhance operational mapping services, etc.). Migration of Infrastructure to AWS platform. transparency, and improve system Cloud: Organized and supervised the process of migrating all Scalable Solution: A foundation was server infrastructure and databases to the Amazon Web reliability. established that could support rapid growth in Services (AWS) cloud environment, which significantly enhanced fault tolerance, security, and scalability. both fleet size and service user base. Testing and Launch: Organized comprehensive system testing and its phased launch into production.