The GEM System experience

with an agile development and SCRUM methodics

GEM System uses modern and progressive technologies, as well as agile project methods. In our running projects, we actively use software development methods like Scrum, Kanban or DevOps. We have experience with dozens of developers working on mutual projects, and we actively participate in using the robust methodics like Large Scale Scrum (LeSS), PRINCE2 Agile or Scaled Agile Framework.

We understand your IT needs.

THE SCRUM METHODICS

Product developing is one of the basic activities of the GEM System. The company internally shifted to the agile SCRUM methodics in this area. Each product has a dedicated Product Owner role. His competence is the definition of the product vision which maximizes the so called „Business Value" of the product.

Based on this vision and the decided budget, the Product Owner role defines priorities to the whole agile team, implementing individual requirements. The product requirements are implemented by a dedicated team which includes the Scrum Master and several Team Members in the roles of developers or analysts. Our goal is the maximization of

alterability according to the SCRUM methodics philosophy. Thus, we primarily concentrate on the roles of developers and analysts.

The agile team development runs in 1–4 week sprints. During each sprint, the team holds regular meetings and reports updates at morning Stand Ups which can be also held remotely via standard communications tools (Skype for Business or Microsoft Teams). A so-called Demo takes place at the end of each sprint, the Retrospective and following Planning Session are used.
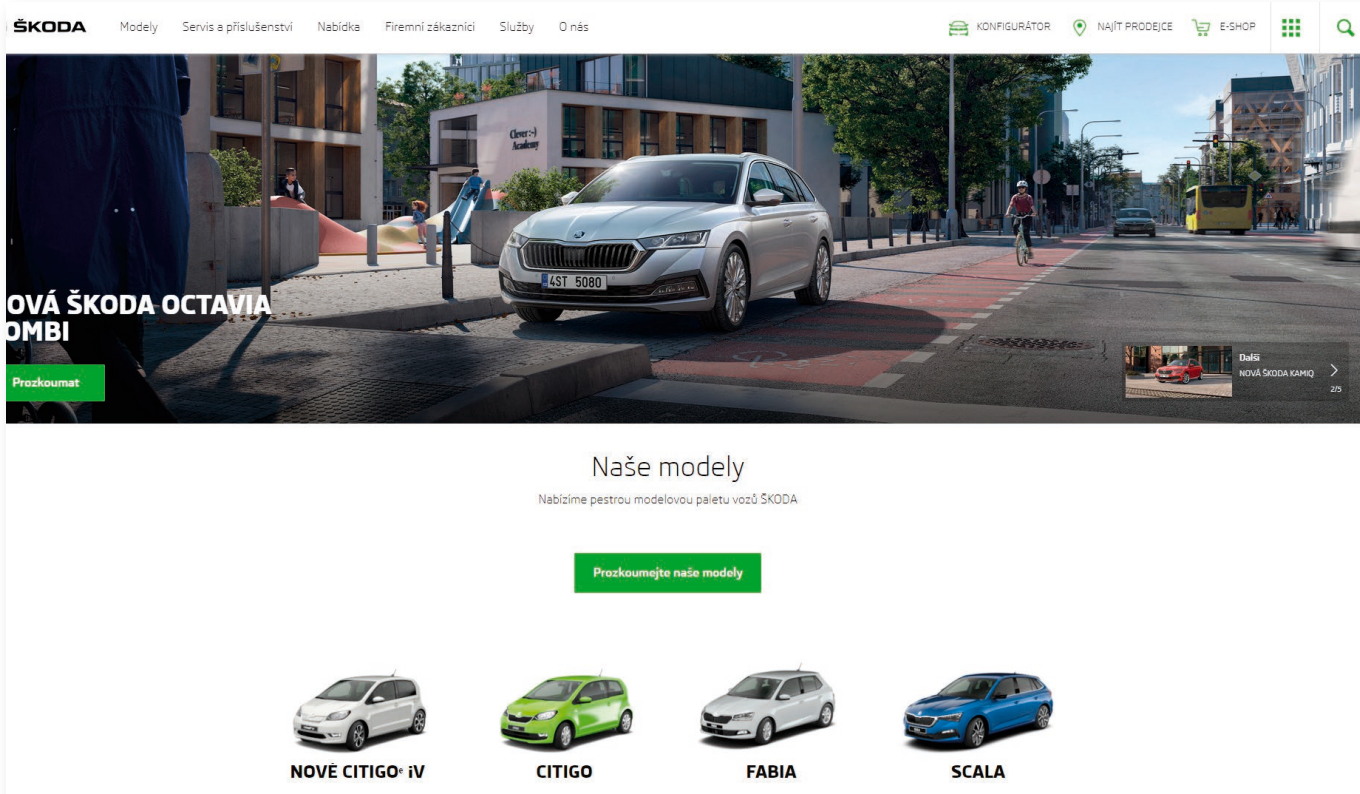
Apart of the described product development, we participate in agilely led projects within the client's environment.
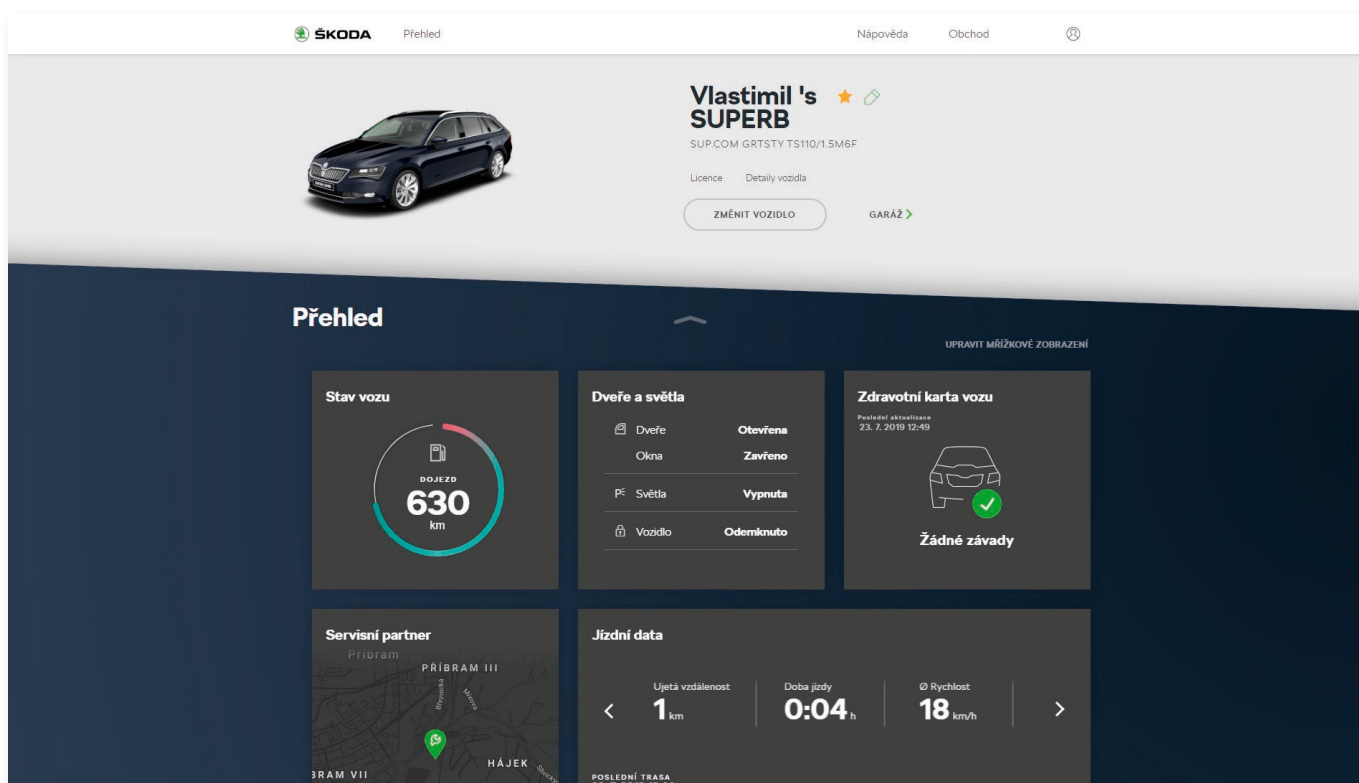
PROJECT REFERENCES AND CASE STUDIES OF THE GEM SYSTEM AGILE DELIVERIES

NAME OF THE PROJECT	EXTENT AND FORM OF REALIZATION
WEBAPP/CDB DEVELOPMENT	The WebApp/CDB development is a project which aims to develop applications in the infotainment of the ŠKODA vehicles. This development is specific due to the internally developed framework in the VW concern known as „SHIFT 5" which capsulizes the whole development. It means that only a couple of technologies can be used for the development (NPM, Node.js, Javascript, TypeScript, Angular 8+, HTML, CSS, REST API, Promises, RxJS). The SHIFT 5 framework includes libraries for the RSI manipulation, it defines individual application elements, and it takes care of the project compilation and building. The second part is defined by components which are developed in the Amazon Web Services in order to store data in a long term.
COMPANY	
ŠKODA AUTO A.S. / GG2	

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NAME OF THE PROJECT	EXTENT AND FORM OF REALIZATION
K2 NEW GENERATION – EXECUTION TEAM	GEM System participates in the development of new product versions for the ŠKODA AUTO company within the framework of the „K2 New Generation - Execution team" project. It is a CMS tool with additional dynamic tools which generate web sites of the importer, sales representative or service in the respective country. The project anticipates using the tool in more than 100 countries, covering thousands of car dealers worldwide. The agile methodics SCRUM and SAFe are used by the project. The operation of the web project is provided by the server infrastructure of the ŠKODA Auto company and Microsoft Azure cloud centers.
COMPANY	
ŠKODA AUTO A.S.	

FURTHER INFORMATION	**www.gemsystem.cz/reference**

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NAME OF THE PROJECT	EXTENT AND FORM OF REALIZATION
CUSTOMER WEB PORTAL	Gem System participates in the component development of „Customer Web Portal" for ŠKODA AUTO a.s. It is a web portal with several integrated backend components in the „Connected Cars" project. The Connected Cars project offers various services to the owners of Škoda Auto cars. The system receives information for the vehicle or controls some of the car's functions while using mobile devices (such as the Control of the car condition, planning of the route, administration of all RSS messages showing information on the infotainment display a. o.). The project is implemented on the base of clients' and users' views and introduces the service at www.skoda-connect.com.
COMPANY	
ŠKODA AUTO A.S.	

FURTHER INFORMATION	www.gemsystem.cz/reference

FURTHER REFERENCES OF AGILELY MANAGED PROJECTS

Simultaneously, we work on agile management for a number of other projects. A good example is the agile management of projects for one of the biggest bank houses in Czech Republic. Yet another reference is the project for world's number one in motivation solutions – a company which is active in more than 30 countries.

For further information, contact us at: sales@gemsystem.cz.

INTEGRATION AND DEVELOPMENT

BUSINESS INTELLIGENCE

SECURITY

ADMINISTRATION AND SUPPORT