



IT FACTORY

SOFTWARE DEVELOPMENT

We provide comprehensive support in planning, designing, developing, integrating, testing, and managing software solutions tailored to your needs.



www.it-factory.pl



office@it-factory.pl



pool. 477, Reject
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Overview

Difficulties in building large IT solutions necessitated the need to systematize the process of creating IT systems. Therefore, many models have been developed to organize the activities undertaken and allow for controlling the condition of the IT product being built, such as: cascade model (waterfall), prototype model, incremental (iterative) model, parallel model, model Agile, spiral model and DevOps. One of the key decisions made before starting the manufacturing process is the proper selection of the most appropriate model, which strongly depends on the stability of the requirements.



Waterfall Model: This is the oldest and forthright SDLC model that has its own mini plan. The main characteristic is that each stage waterfalls into the next one. The major disadvantage is the fact that even the small details left unfinished can significantly slow down the whole development process.



Agile Model: This is a very popular SDLC model. Its main features are incremental and rapid (often referred to as "sprint"). New changes are being implemented swiftly and rapidly with each sprint, allowing for faster completion of the project. Agile also means less time spent in the planning phases, and the bigger focus on the development process itself.



Iterative Model: This model focuses on repetition and is a very popular SDLC model. Developers build the new version of code rapidly, then test it and improve in the successive versions. One of the big disadvantages of this model is that it may be eating the resources fast, if the errors are left unchecked/undone.



V-Shaped Model: This model is often considered to be a version of the waterfall model, because it incorporates tests on each step of the development. Similarly to the waterfall approach, it is prone to causing slowdown and holdups in the project.



Big Bang Model: This model is recommended for smaller projects, as it uses most of its resources in the development phase. Compared to the other models, it neglects or bypasses the detailed requirements definition stage, which can result in costly errors in further stages of the process.



Spiral Model: This model is characterized by its high flexibility. It has many common features with the iterative model. It also goes through planning, design, build, and test phases as many times as needed, making gradual improvements at each stage.

For our clients, we provide software development experts covering all skills and project roles: full-stack developers, frontend and backend developers, DevOps, Cloud and QA engineers, as well as UX/UI designers, business analysts, project managers, and Scrum masters. We can help you augment your IT staff to meet the growing demands of your business or build a dedicated team for a complex project.

Software development services include planning, designing, developing, integrating, testing, and managing software solutions. IT Factory provides application development services to startups, software companies, and organizations from variety of business sectors.

Challenge

Software development is a complex and difficult process. It involves its own set of challenges, especially for today's developers, as industry standards and technologies continue to evolve. The inability to keep pace with innovations in developer tools, manage projects and handle increased client expectations can negatively impact software developers and their ability to complete tasks. It is crucial to understand these challenges and how to overcome them. Companies face several different challenges when it comes to software development.

We must also note that there is less risk when using known technologies, but companies that do not keep up with innovations and do not implement them on time may fall behind the competition. However, when using innovative technologies, it is important to maintain system security at a consistently high level, which requires control and continuous improvement.



IT Factory (...) delivered the agreed services in the manner closely aligned with the Client's demands. The expertise level of proposed specialists to work on projects at the Bank was always very high.

Top 3 Polish Bank



Solution

We are ready to offer end-to-end development that covers everything from business analysis to software delivery and support, help to build new or modernize your legacy software based on reliable methodology Software Development Life Cycle (SDLC).

We believe that systematic approach generates the best structure for the developers to design, create and deliver high-quality and cost-efficient software based on customer requirements and needs. IT Factory can help augment your team with our IT experts at any stage of a project. We make sure that the competences of our candidates always match the specific requirements of a project (explore our **Team Leasing** and **Staff Augmentation** offer to learn about how we operate.) Summary the good team quality and the SDLC process which comprises a detailed plan that describes how to develop, maintain, and replace the software can guarantee high-quality of our products. We provide and control custom software development across the following 7 phases of SDLC:

• **STEP 1: Project Planning**

The first thing to do is to thoroughly analyze the customer's needs and define the requirements. The next step is to analyze the requirements and plan the steps necessary for its implementation based on the information obtained. This phase requires direct contact with the client, good communication skills and understanding of the other party.

• **Step 2: Gathering Requirements & Analysis**

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"Build your IT future on a strong foundation of quality!"

Andrzej Orzełowski, CEO

• **STEP 3: Designing**

Designing the implementation of a given element that is the goal of the task based on information collected at the planning stage. Designing architecture, processes, integration and data flow.

• **STEP 4: Developing**

Development of previously designed software (in accordance with the given requirements) by the project team, integration with other systems and dependent processes.

• **STEP 5: Testing**

Performing tests based on previously prepared plans and approved test cases. Collaboration with analysts and the programming team to record and correct production errors and test delivered corrections.

• **STEP 6: Deployment**

Implementation of the produced software into "production" after obtaining positive results of both technical and customer tests. Stabilizing the software in the new environment and preparing end users to use it.

• **STEP 7: Maintenance**

Providing feedback from the client to the person or team performing a given task in the project regarding possible minor errors that were not detected during testing, reporting potential improvements to be implemented in subsequent cycles or reporting changes to the client's requirements.

Benefits

- PoC start without a big budget (no substantial investment is needed to start)
- Fast time-to-market (significant reduction of project implementation time)
- Perfect architecture (defining and justifying the architecture)
- Reducing time and money by using external, highly qualified specialists
- Cost optimization





IT FACTORY



ARE YOU INTERESTED IN COLLABORATION?

Feel free to reach out to us, explore further details about our offerings, and arrange a consultation at your convenience.



MOKOTOWSKA 1, 00-640 WARSZAWA



OFFICE@IT-FACTORY.PL



+48 731 830 444



WWW.IT-FACTORY.PL

