Solution architecture

Course code: GOC4611

A solution architect designs a solution in such detail that analysts can then elaborate it in greater detail and programmers can then implement it. They must take into account not only the IT world, because solving real business needs does not only consist of programming a new application, but has a much broader impact on the entire organization. Even today, there are solutions that do not require writing code at all.
Perhaps this role attracts you as the next logical step in your career, or you were simply "thrown" into it and are looking for solid ground. The course will help you navigate the competencies of an architect and show you how to become a reliable bridge between business and implementers. But it will also serve those who work closely with architects and need to understand what they can (and should) expect from them.

Who is the course for

- Interested in the role of a solution architect
- who want to gain a solid foundation and confidence in what this position entails.
- Developers
- and
- technical designers
- who want to see beyond the code and understand the broader context of proposed solutions.
- IT and business analysts
- for whom the solution architect is a key partner in developing requirements.
- Software specialists (architects)
- who need to place their technology design in an enterprise-wide framework.
- Business and enterprise architects
- with the need for greater insight into the layer of specific solutions delivered.

What we will teach you

- Understand the role of a solution architect, including its context within the organization.
- Gain a more comprehensive view of designing solutions beyond pure IT.
- Master the techniques of effective solution modeling for better communication with clients and implementers.
- Practice the acquired knowledge on a more complex example.
- Realize what qualities and skills make a good solution architect.
- Clarify various approaches and best practices within a guided discussion.

Required entry knowledge

- Basic awareness of IT and the functioning of information systems.
- Basic awareness of the life cycle of requirements implementation.
- An appetite to learn something new and a willingness to discuss different approaches.

Course outline

- Setting solution architecture in context
- Change, need, solution, stakeholder, benefit, connection
- Source of changes and solutions: VMOST analysis (motivation for change)
- Types of architectures and their relationships (enterprise, solution, software, integration, data and information...)
- Solution design
- Getting to know the assignment
- Preparation – big picture
- Finding and choosing a solution
- Deciding on the "right" solution
- Modeling solution architecture
- Reasons for modeling

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Solution architecture

- Business solution (ArchiMate, BPMN)
- Application solution (ArchiMate, UML)
- Technological solution (ArchiMate, UML)
- What makes a good solution architect
- Characteristics, responsibilities
- Personality traits
- Soft skills

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