BUSINESS SYSTEMS Systems Analysis

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2024-III





Outline

- Domain-Driven Design
- 2 Business Systems Analysis
- Software Methodologies
- 4 Requirements Engineering





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- Domain-Driven Design
- Business Systems Analysis
- Software Methodologies
- 4 Requirements Engineering





- DDD is focusing on the core domain and domain logic, it is a way of thinking aimed at accelerating software projects that have to deal with complicated domains.
- The essential terms of DDD are context, model, ubiquitous language, bounded context, and business logic in layers.
- DDD is a set of principles and patterns that help to design a system ensuring alignment with the real-world business needs.



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- Base complex designs or models of the domain.
- Constantly collaborate with domain experts.
- Develop a knowledge-rich model.
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Case of Study: DDD for Condor





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- They are designed to automate and streamline business processes improve efficiency, and provide accurate and timely information for decision-making.
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- Business analysis is the process of identifying business needs and determining solutions to business problems.
- It involves understanding the current state of the business, analyzing requirements, and recommending improvements.
- Business analysts use various techniques and tools to gather and document requirements, such as interviews, surveys, and workshops.
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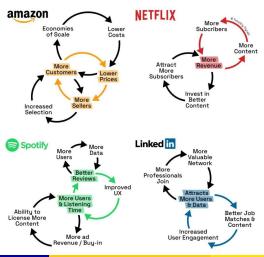
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- Key activities in business analysis include:
 - Understanding business processes and workflows
 - Identifying and documenting business requirements
 - Analyzing and prioritizing business requirements
 - Creating business process models and diagrams
 - Collaborating with stakeholders to validate requirements





Business Models Examples

Understanding Business Models Through Flywheels







- IT Project Management is the process of planning, organizing, and controlling the resources and activities required to complete an IT project.
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- Key components of IT Project Management include:
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Case of Study: Example of a KANBAN Board





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Software Methodologies

 Methodologies are a set of steps to complete tasks or to perform processes.

Systems Analysis

They are next level of algorithms, more complex, more detailed.





Traditional Methodologies

- At the beginning, methodologies to solve software problems were big, tons of steps, documentation of decisions taken, and looking for a lot of explanations for everything.
- Some problems required old school methodologies to be solved.
 However, there are just a few cases of them.
- Big methodologies required a lot of resources, as humans, knowledge, time and money. Sadly, in real-world, you rarely have all those things to solve problems.





- Agile methodologies were created and developed for small technology companies unconsciously around thirty years ago.
- Some technology companies are tricky: start with small teams, with a few of money, but with big potential growth.
- The term startups group this kind of companies. If you want to develop a product with small teams and no so much budget, you need to think smart and think fast.
- Agile methodologies focus on final product more than in processes and documentation.
- It means, have a good leadership, a good team culture, a good learning curve, share knowledge, make the client a strong part of the process, and have quickly new versions of the product.





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Case of Study: Example of a SCRUM Workflow





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- Gather right information means make the right questions. At the same time, it is important to understand business domain, define business rules, and create the right shared vocabulary.
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Thanks!

Questions?



Repo: https://github.com/EngAndres/ud-public/tree/main/courses/systems-analysis



