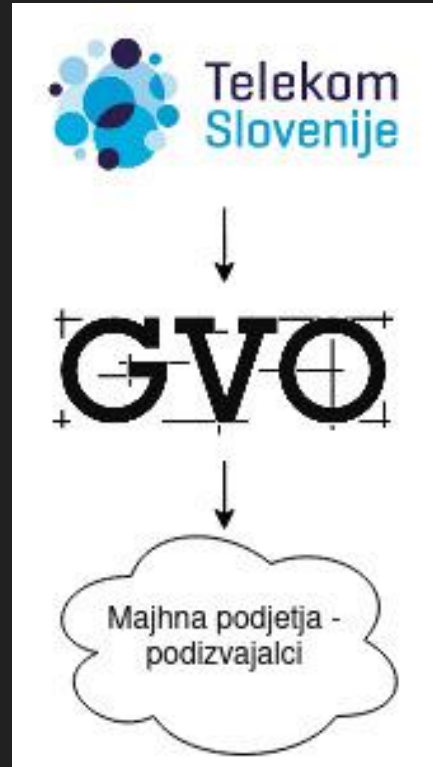# Enterprise Resource Planning (ERP) System for Telekom Slovenije Subcontractors

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UP Famnit, 2020

Content

- Introduction
- Business process analysis (subcontractors of Telekom Slovenije)
- Business process problems
- Conceptual model proposition and analysis
- Conclusion

Introduction

Introduction

- Subcontractors rely their businesses only on e-mail and Microsoft Office

- They often experience data and time losses, human errors, and misunderstandings

Business process analysis - HR management

- Organize available workers into working groups

- Register working groups to Telekom Slovenije

- Respond to vacation requests

Business process analysis - Service Preparation

- Every registered working group gets work order

- Customer data
- Connection technical data
- Task description

Business process analysis - Write report

- Every work order contains a number of report columns

- Reporting relevant data
  - New connection status
  - Technical data
  - Remarks
  - Problems
  - Status

Business process analysis - Accounting

● Generating financial statements and analysis
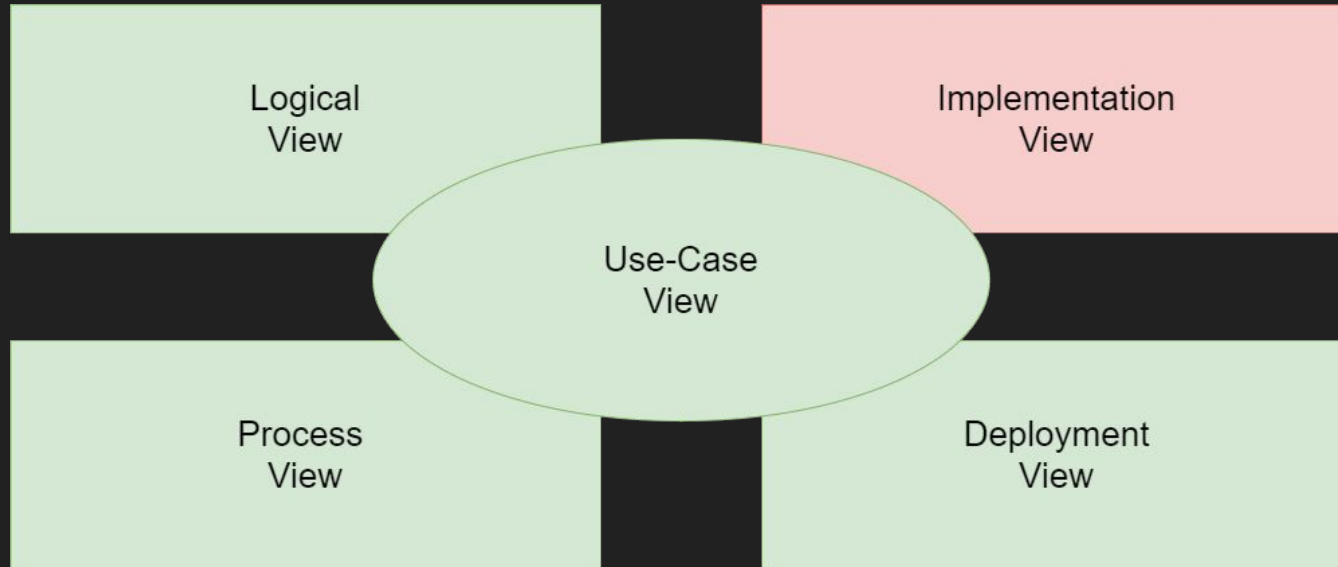
Business process problems

- Workers do not possess enough computer education
- Data loss
- Wrong or incorrect reports
- Archiving and searching the data
- Accounting tasks are accomplished manually

Business process problems solution

- Implementing ERP system
  - Read and process incoming work orders from email
  - User friendly interface
  - Automatically send reports
  - Store data into database or content server
  - Evidence and management of employees
  - Automated financial and statistical analysis
  - Data visualization
  - Mobile system

- System should be
  - Optimized for small company budget
  - Modular

Conceptual model proposition and analysis

Conceptual model proposition and analysis

- Subsystems
  - HumanResources
  - ServicePreparation
  - Reporting
  - Accounting

- Beyond the scope
  - Email send/receive
  - Authentication
  - User management

Conceptual model proposition and analysis - Types of users

- user management
- system configuration
- access to all subsystems

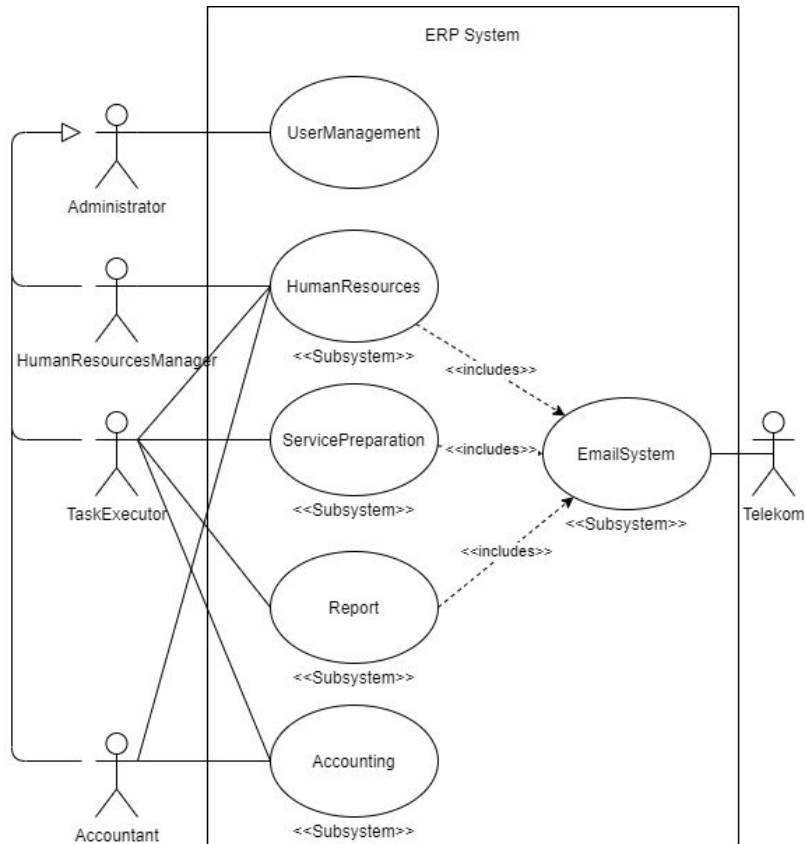- financial status analysis
- financial reports
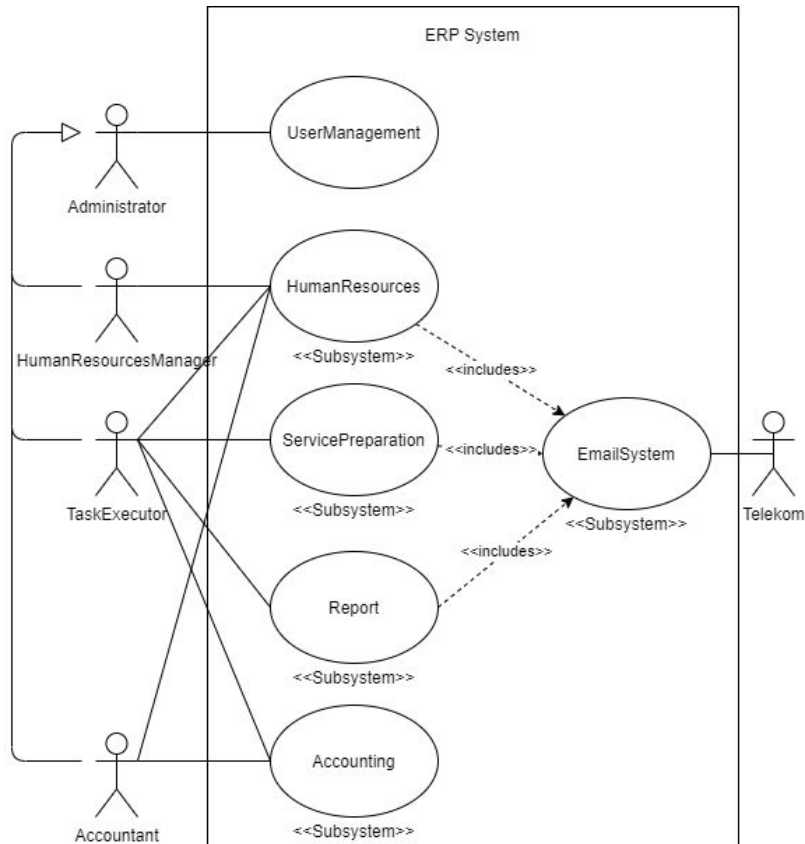
- execute tasks
- write and send reports

- working groups management
- report working groups
- manage vacations

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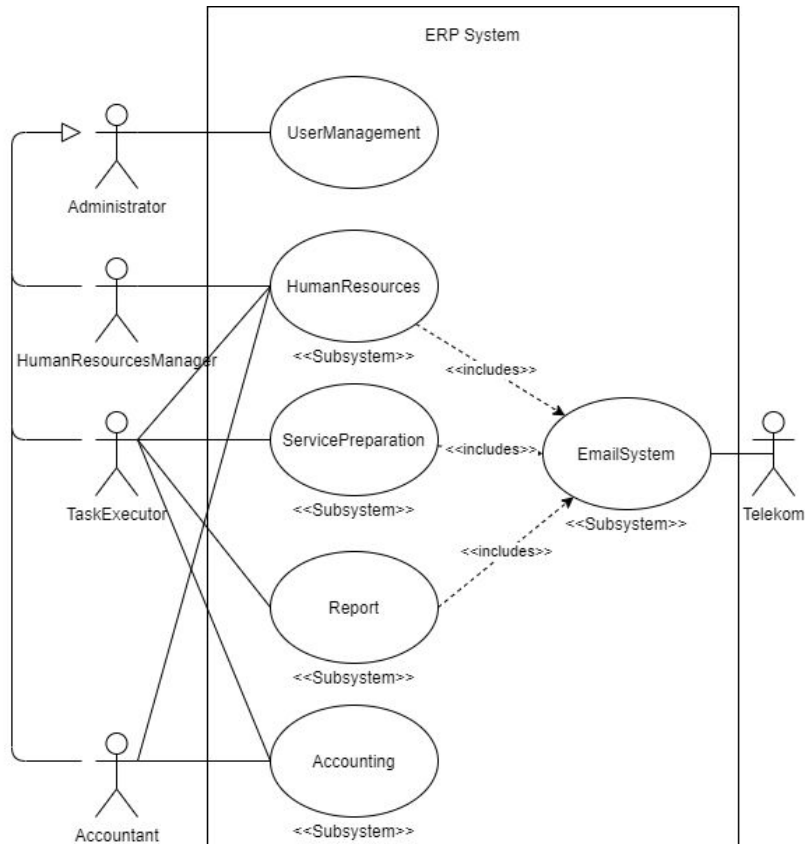# Conceptual model proposition and analysis - Use case

- Human resources manager
    - List available workers
    - Respond to vacation request
    - Create working groups
    - Analyse worker
    - Register working groups to Telekom

Conceptual model proposition and analysis - Use case

- Task executor
  - Preview generated documentation
  - Print work orders
  - Write report
  - Request vacation
  - Overview financial profile

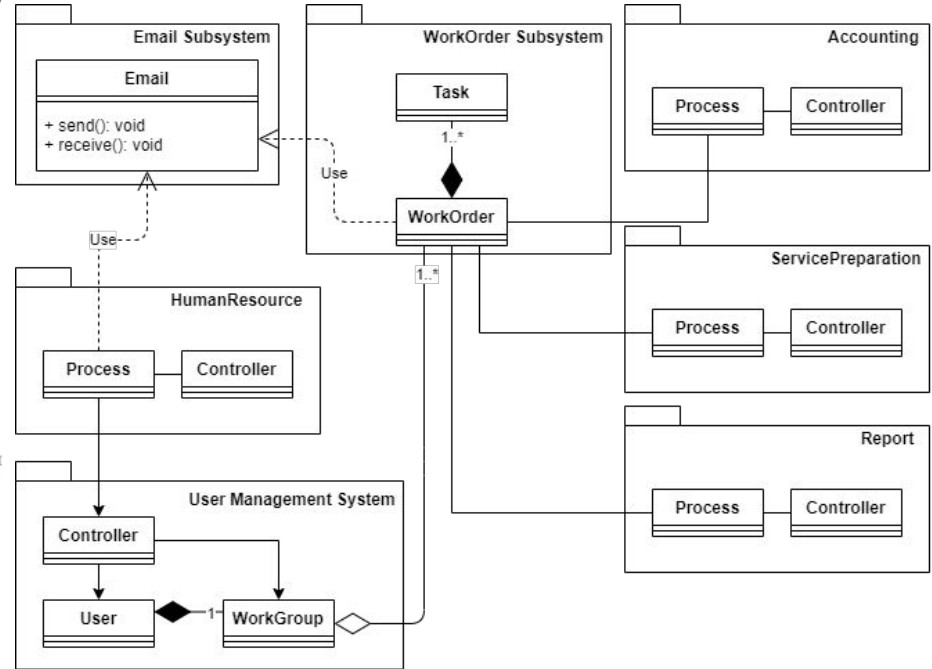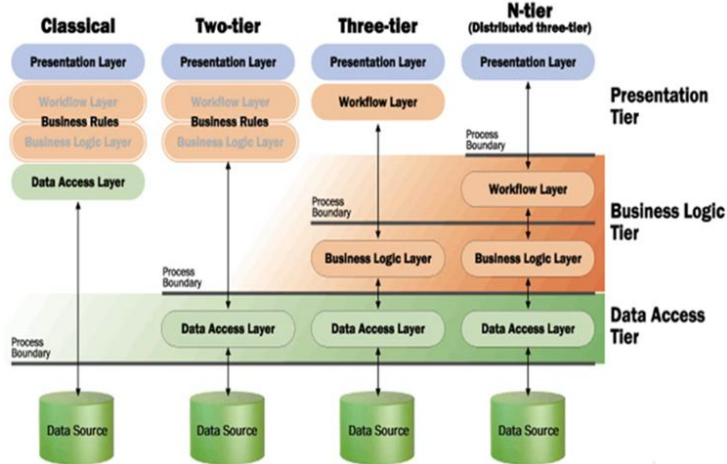# Conceptual model proposition and analysis - Use case

- ● Accountant
  - ○ Access calculated financial states
  - ○ Statistical analysis
  - ○ Import documents and data
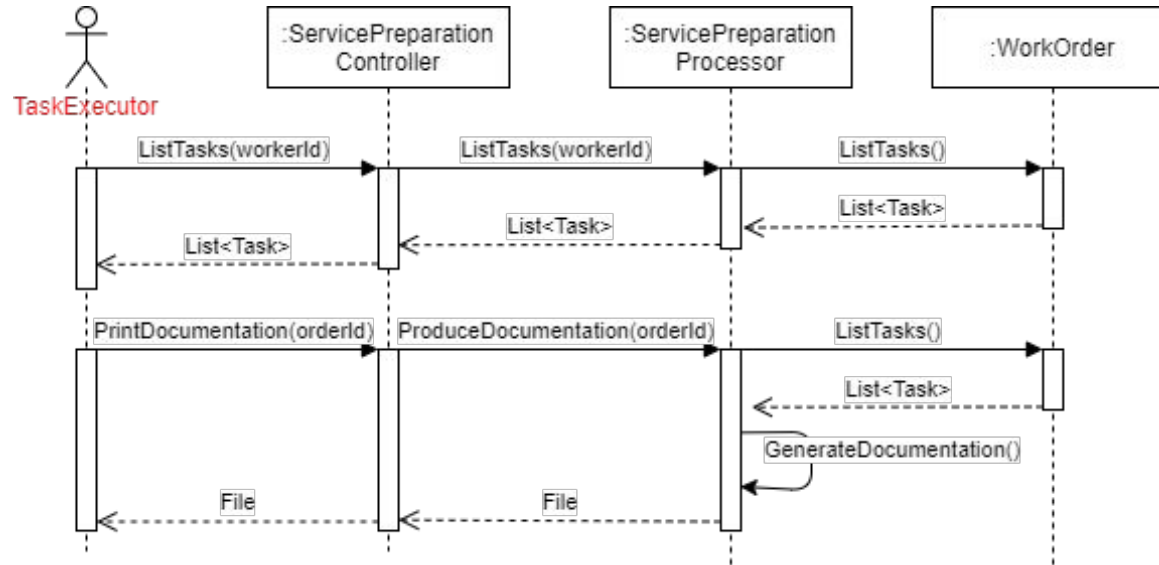 - ○ Export documents

Conceptual model proposition and analysis - Logical view
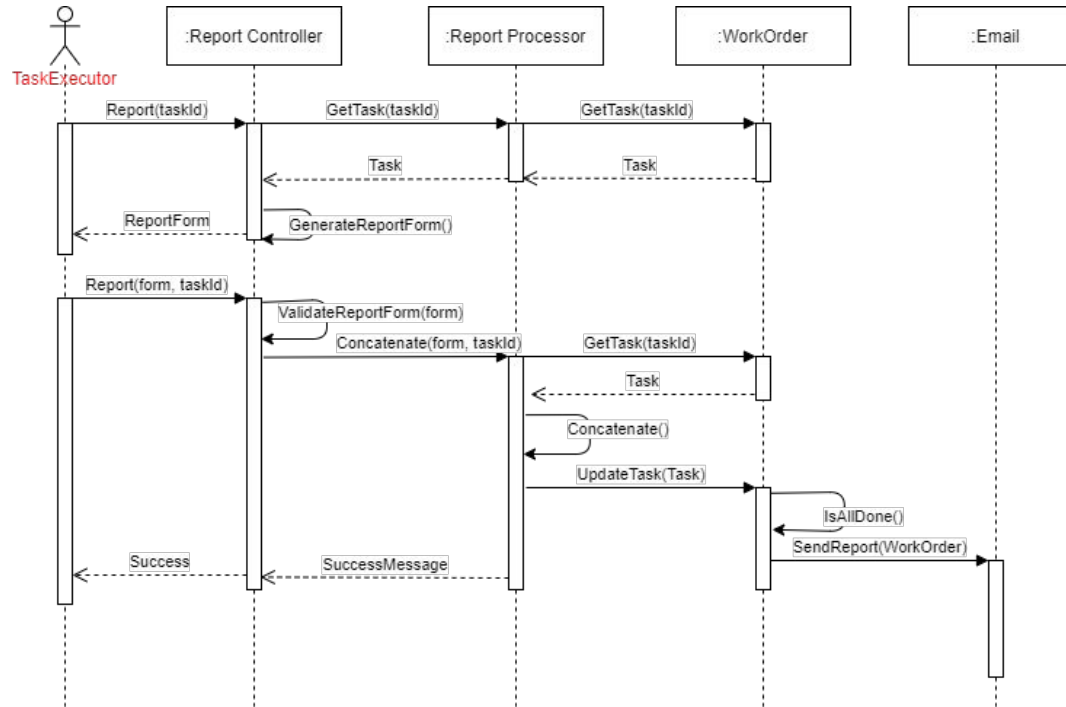
- Web-based Object-Oriented Model (WOOM)
  - Faster implementation and customization
  - Internet access
  - Lowers infrastructure costs
  - Security issues

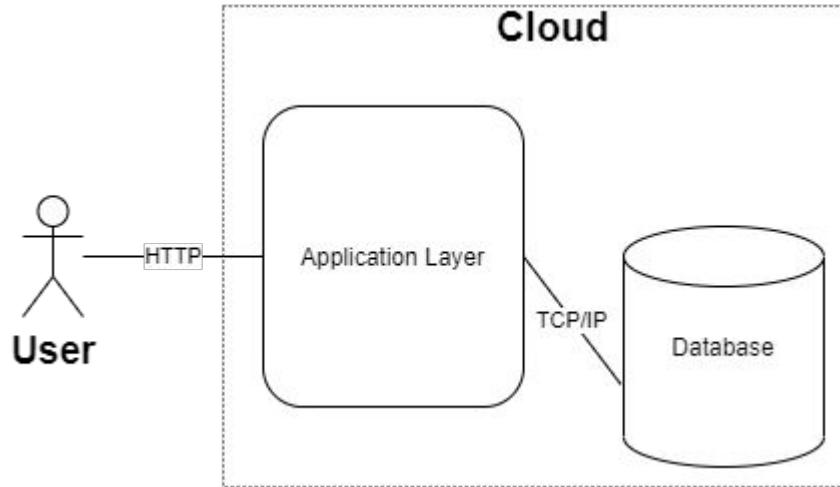# Conceptual model proposition and analysis - Process view

Conceptual model proposition and analysis - Process view

Conceptual model proposition and analysis - Deployment view

- Traditionally ERP are implemented in company premises
  - Servers
  - Required packages
  - Maintanace

- Cloud based system
  - Servers are located in different places
  - Cloud based ERP systems

- Software as a Service (SAAS)
  - Provider applications on cloud architecture
  - Company pays only subscription fee
- Platform as a Service
  - Cloud infrastructure to build and deploy applications

Conceptual model proposition and analysis - Deployment view

Advantages	Drawbacks
- Low cost - Scalability - Easier implementation changes	- Security

Conclusion

- Business process analysis

- System requirements defined

- Business process automatization
  - Eliminating problems in business processes

- Modular system

- The main drawback is security

- Cloud ERP can give more benefits compared to traditional ERP

Questions