Diploma project statement and background

**Business Process Modeling and Simulation: DEMO, BORM and BPMN**

- **BPM (Business Process Management)**: management oriented concept to deal with the organization and its processes
  - The core step in BPM is Business Process Modeling (BPM)
  - For process (re)design and optimization, BPM needs to be complemented with simulation
  - Business Process Simulation allows:
    - Comparing design options
    - Optimizing processes based on performance analysis

- **Final conclusion**
  - DEMO is very different to BORM and BPMN. Each can be used for a different purpose
  - Instead of competing, they can complement each other in 2 ways:
    - The DEMO model can be used as an input into BPMN modeling project
    - The DEMO methodology concepts can be used to improve consistency of BPMN or BORM models

- **Comparison and Results**
  - Comparison viewpoints:
    - Purpose and motivation
    - Advantages and disadvantages
    - Strengths and weaknesses
    - Applicability in practice
    - Support of simulation
  - Application of BORM, BPMN and DEMO based on Business Process Modeling Benefits:

- **Applicability of BORM, BPMN and DEMO**
  - DEMO finishes where BPMN starts
  - DEMO captures the social interaction within the enterprise (communication and cooperation)
  - BPMN captures the technical details of the organization's processes (flow of activities and information)
  - BORM is quick and easy to use and understand and overlaps the border of DEMO and BPMN

- **Potential for future research**
  - The DEMO methodology and simulation - enhancement of the method of translating DEMO model into Petri net implementation of the translation in a case tool
  - Combination of the DEMO methodology with BPMN

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