

Portal for Students Serving in Reserve Duty – Technion

Specification Document

Organization: Technion, Division of Computing and Information Systems, Department of Software and DevOps

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The Goal: to compose a Requirements Specification Document for a computerized automated system to replace the current (manual) procedure which purpose is to issue benefits to Technion students who serve in reserve duty.

Background: Currently there is a benefits issuing process based on office work. In order to make the process faster, more accurate and more accessible to the students, it was decided to create an automated system, which will centralize information acquisition, and decision-making. The information system will collect relevant data, process the information and propagate the resulting benefits list to the relevant people, such that they can realize the benefits.

The Workflow: The work was done in an iterative manner of gathering information from Technion officials, elaboration of the information into intermediate artifacts to be approved for the next iteration, until the requirements specification document is completed.

The final Artifact: A requirements specification document for the Portal pertaining UML diagrams describing the system and its subsystems, Use cases and detailed list of requirements. These form the Solution Model upon which the software development should be based.

Conclusions: The list of requirements given by the stakeholder constitutes the basis for the final list. The comprehensive list of requirements include also requirements derived from the system characteristics, from constraints and risk and challenge analysis. These are discovered only during the elaboration.

Contribution to the student: I learned to develop detailed technical requirements, by understanding the constraints, risks and challenges which the system has to deal with. Among these, the linking and the information flow within the system components, and between the system and external data and information sources.

Contribution to the organization: A requirements Specification Document that is the starting point for developing the Portal.

Contribution to the department of information and knowledge management: Strengthening the reputation of the department and its students, and the education they acquired. Establishment of connections between the department and external Organizations.