

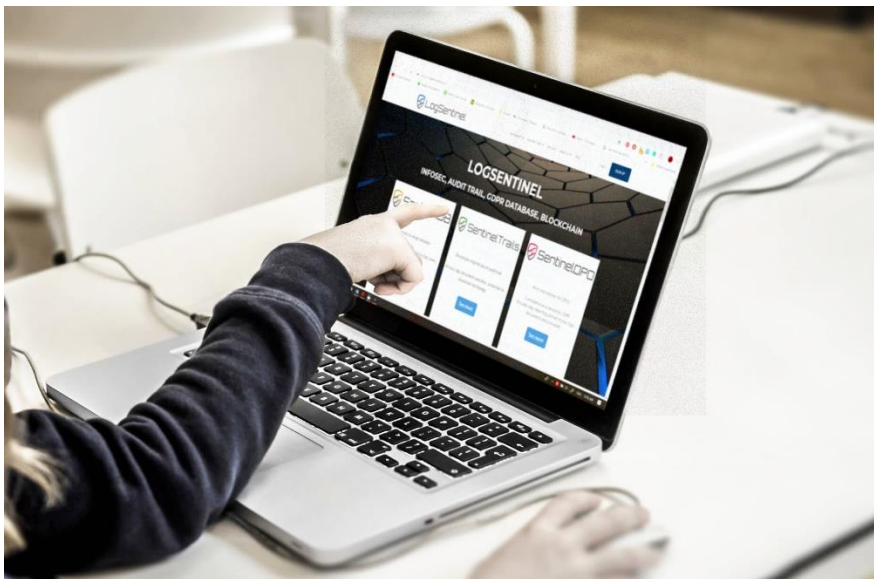
# User Interface for SentinelDPO

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## Bachelor's Thesis

The aim of this bachelor assignment is to develop the user interface and functionalities for a new software aimed at Data Protection Officers, for the client company- LogSentinel. LogSentinel is a start-up company created in 2017 and they are an information security company, in Sofia, Bulgaria. They have developed and launched to the market two products in the field of information security -SentinelDB and Sentinel Trails. Their software is closely related to data protection and the General Data Protection Protocol and incorporate many functionalities connected to the GDPR. However, they also want to have separate software dedicated to DPOs. This software will be based on SentinelDB and Sentinel Trails. The development process started with a research question definition and structuring the analysis. The research question is "To what extent can the user interface and functionalities of software targeted to DPO's be developed?". The background research was based on the GDPR, the market competition and understanding and evaluating the two existing products- SentinelDB and Sentinel Trails. The evaluation was based on the 10 Usability Heuristics for User Interface Design and a grading system which quantified the results (Nielsen, 1994). The stakeholders' research was focused on the end users- the DPOs and three were interviewed and a PACA analysis was conducted. In the end, requirements were created on which the ideation process was based. During the ideation the functionalities were developed, as well as the base of the user interface. Many mock-ups were created, evaluated and changed. An exploratory prototype was made with which eleven people were tested and using the results, considering possible misuse and error prevention, the design was improved and the final concept was created. In the software, there are five report templates which can be filled in and their content was created with the help of LogSentinel. Some parts of Sentinel Trails, which were about the GDPR were modified and added to the product.

The final concept includes the visual interface, description of the content and all possible interactions in the software. The product consists of 16 separate tabs, each catering to a user's need. Multiple tabs are similar in functions, which is why they were developed first and used as building blocks. The design was kept similar to that of the existing products by the client. Consistency is present throughout, making the software easier to learn and navigate. A wish by the client was to have visuals, which therefore in some tabs relevant infographics were added. A semi-functioning prototype was created to showcase the main functionalities of the design using Adobe XD. In the end, the final concept was evaluated in the same way as SentinelDB and Sentinel Trails were, with the addition of an external evaluator, a fellow third-year Industrial Design student. Based on the results recommendations were created. The design of the software could be improved if it is tested with the target group. Coming back to the research question the extent to which the user interface and functionalities were developed is at a well-developed conceptual level.



Nielsen, J. (1994, April 24). *10 Usability Heuristics for User Interface Design*, Retrieved from: <https://www.nngroup.com/articles/ten-usability-heuristics/>