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| Shore Lines  2018 |
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Chapter 3 #

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# Introduction

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| Background 1.1 This project consisted of using SCRUM, a framework that allows a team such as ours to effectively and productively collaborate on a complex system such as the assignment we were given by EASV teachers. It allowed us to organize our time and helped every member to evaluate the amount of time each operation would take. It gave the members a better insight in to a more professional environment with a good team structure, time management and overview of the amount of work each member has contributed. |
| *“It gave the members a better insight in to a more professional environment with a good team structure”* |
| The company SHORELINE cooperated with the teachers and helped forming the standard of what the company expected from the project, participated in SCRUM meeting as well to give feedback and ask question regarding the program features/GUI that was presented during the meetings.  The assignment we were given was to create a program that would convert files such as XML, XLSX and CSV in to JSON files, so it could be used with SHORELINE web platform/system, which reads only JSON formatted files. The program had to have a way for the user to customize the configuration on how the data would be converted, including checking if data that is being imported is valid and a form of traceability to track what each user did, when the user did it and errors that would display what went wrong with the conversion.  Binary group agreed on using a login feature where the user would login with given username and password, this way the program could trace each user, what they did and when. All this information would be displayed in the log window, where users can see the error if there was any. The main functionality of the program is to convert file types XLSX and CSV in to JSON format, allow users to interact with the program simultaneously to the conversion, pause, stop and resume the task. The program was to be written using JavaFX and SQL database to store relevant data. Problem Definition 1.2 *“Shoreline provides web based, user-friendly, verified and proven simulation software and consulting for the offshore wind industry. Shoreline conducts a wide range of simulations. A lot of the data for the simulations are done based on data coming from other platforms/systems”.*  Shoreline works with various companies around the world, they simulate data, construction cost, consulting services and overall analysis of lifecycle for the wind turbines. This helps the companies to avoid additional cost and utilize energy more efficiently. Shoreline needs a tool that can migrate/convert data from a range of platforms, to their own web-platform. This will save a lot of time and resources as opposed to having to manually go through all the data and import in to their own system. |
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