

# **Project Manual**

(TINF21C, SWE)

**Project:** Modelling Wizard Improvements

**Customer:** Markus Rentschler

Christian Holder

**Team:** Project Manager – Robin Ziegler (<u>inf21100@lehre.dhbw-stuttgart.de</u>)

Developer – Nils Hoffmann (<u>inf21194@lehre.dhbw-stuttgart.de</u>)

Test Manager – Michael Grote (inf21111@lehre.dhbw-stuttgart.de)

Graphical Designer - Sophie Kirschner (inf21083@lehre.dhbw-stuttgart.de)

System Architect – Fabian Kreuzer (<u>inf21106@lehre.dhbw-stuttgart.de</u>)

Tech. Documentation – Dana Frey (<u>inf21099@lehre.dhbw-stuttgart.de</u>)

Product Manager – Maximilian Trumpp (inf21123@lehre.dhbw-stuttgart.de)

## **Change History**

Version	Date	Author	Comment
0.1	22.09.2022	Michael Grote	Preliminary Setup
1.0	06.10.2022	Michael Grote	Edit Content
1.1	16.05.2023	Michael Grote	Update Content

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## 1. Project Assignment

### **Project Assignment**

### Project Objective (Output)

The aim of the project is to analyze the usability of the existing Windows standalone application "Modelling Wizard". From this, a usability concept for the GUI is to be developed. In addition, the existing functions are to be tested. Furthermore, the existing source code is to be refactored.

### Project Benefit (Outcome)

The user-friendliness is to be improved by adjustments to the GUI. Thus, the user should later be able to use the software more intuitively. In addition, already known errors should be eliminated. By refactoring the existing source code, maintainability should be improved. This also results in the preservation of adaptability for the future.

Customer: M. Rentschler; C. Holder	Project leader: Robin Ziegler	
Team members:      Robin Ziegler     Maximilian Trumpp     Michael Grote     Fabian Kreuzer     Dana Frey     Nils Hoffmann     Sophie Kirschner	Previous developer team:      Linus Eickhoff     Florian Kellermann     Lukas Ernst     Florian Kaiser     Malte Horst     Rajkumar Pulaparthi	
Main tasks:	Milestones:	
Project start event: Introductory lecture with project assignment	Project start date: 09.September 2022	
Project end event: Presentation of the Results	Project end date: 19.May 2023	



## 2. Project Context

## Initial situation and problem description

The current implementation has minor bugs and still needs a more detailed bug analysis. In addition, the user interface has several buttons with similar functions. This affects the usability. In addition, some menus should be moved from "Simple Mode" to "Advanced Mode" to make it easier to use in Simple Mode. Furthermore, a proper user manual for the software is missing.

Temporal Project Context		
Pre-project phase	Post-project phase	
The stand-alone application has already been developed by another team. The GUI has some small bugs, and the user- friendliness can be increased even further	<ul> <li>The existing GUI should be redesigned. The existing code should be refactored. The user manual should be extended to show all functionalities of the application.</li> </ul>	

Stakeholder Analysis			
Stakeholder	Potential / Chance	Conflict / Risks	Actions
Customer	Satisfaction with the	Requests for	Regular
	new	changes during the	communication
	implementation.	project.	between supplier and
			client.
Supplier	Development of a	Misjudgment of	Fixed intermediate
	solution that meets	effort, time	dates, regular
	the requirements.	pressure,	meetings, uniform
		miscommunication	code standards
User	Benefit of the	Lack of	Creation of a usability
	application, increase	understanding of the	concept and testing
	in efficiency,	application,	of catching errors
	intuitive usability	incorrect operations	

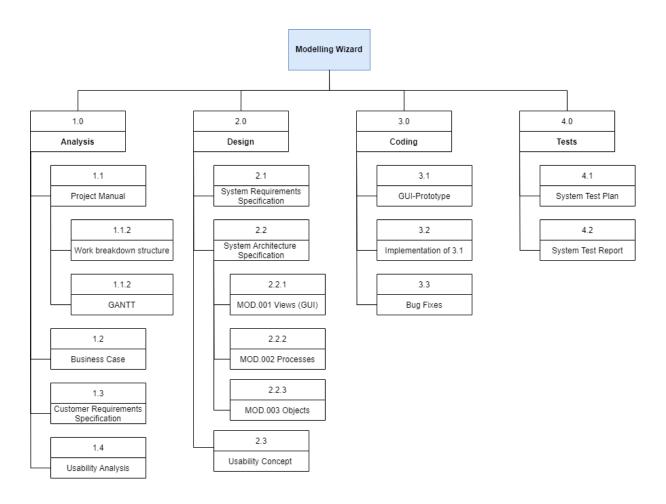


## 3. Project Organization

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Project Organization			
Position	Description	Name	
Customer	<ul> <li>Defines the project framework</li> <li>Sets out the customer requirements</li> </ul>	Rentschler, Markus / Holder, Christian	
Project leader	<ul> <li>Control of the distribution of tasks</li> <li>Coordination of the members</li> <li>Allocation of resources</li> </ul>	Robin Ziegler	
Project team	Product Manger Test Manager System Architect Tech. Documentation Developer Graphical Designer	Maximilian Trumpp Michael Grote Fabian Kreuzer Dana Frey Nils Hoffmann Sophie Kirschner	



## 4. Work Breakdown Structure (PSP)





## 5. Milestones

WP-Code	Milestone Name	Plan Date	Responsible Person
1.0	Analysis		
1.1	Project Manual	06.10.2022	Michael Grote
1.1.1	Work breakdown structure	06.10.2022	Michael Grote
1.1.2	GANTT	06.10.2022	Michael Grote
1.2	Business Case	10.10.2022	Robin Ziegler
1.3	Customer Requirements Specification	06.10.2022	Maximilian Trumpp
1.4	Usability Analysis	15.03.2023	Sophie Kirschner
2.0	Design		
2.1	System Requirements Specification	20.10.2022	Dana Frey
2.2	System Architecture Specification	30.10.2022	Fabian Kreuzer
2.2.1	MOD.001 Views (GUI)	12.05.2023	Fabian Kreuzer
2.2.2	MOD.002 Processes	12.05.2023	Fabian Kreuzer
2.2.3	MOD.003 Objects	12.05.2023	Fabian Kreuzer
2.3	Usability Concept	19.03.2023	Sophie Kirschner
3.0	Coding		
3.1	GUI-Prototype	26.03.2023	Sophie Kirschner
3.2	Implementation of 3.1	12.05.2023	Maximilian Trumpp
3.3	Bug Fixes	18.05.2023	Fabian Kreuzer
4.0	Tests		
4.1	System Test Plan	01.05.2023	Michael Grote
4.2	System Test Report	18.05.2023	Robin Ziegler



## 6. Lists of tasks and responsible person

Activities and Responsibility			
Person Category Tasks			
Robin Ziegler Position: Project Leader GitHub-Name: robinziegler	Documentation, Organization	<ul> <li>Business Case</li> <li>Organization of GitHub</li> <li>Contact person to the Customer</li> <li>Software Test Report</li> </ul>	
Maximilian Trumpp Position: Product Manager GitHub-Name: maximiliantrumpp	Documentation	<ul> <li>Customer         Requirements         Specification</li> <li>Contact person to the         Customer</li> </ul>	
	Development	<ul><li>Implementation of the new GUI</li><li>Backend Implementation</li></ul>	
Michael Grote Position: Test Manager GitHub-Name: michi3214	Documentation	<ul><li>Project Manual</li><li>Software Test Plan</li></ul>	
	Development	Implementation of the new GUI	
Fabian Kreuzer Position: System Architect GitHub-Name: Fabiankreuzer	Documentation	System Architecture     Specification	
	Development	<ul> <li>Implementation of the new GUI</li> <li>Backend Implementation</li> </ul>	
Dana Frey Position: Tech. Documentation GitHub-Name: DanaFrey	Documentation	<ul><li>System Requirements Specification</li><li>Meeting Minutes</li></ul>	
	Development	Implementation of the new GUI	



Nils Hoffmann Position: Developer GitHub-Name: HoffmannNils	Documentation	User Manual
	Development	Implementation of the new GUI
Sophie Kirschner Position: Graphical Designer GitHub-Name: sophiekirschner	Documentation	<ul><li>Usability Analysis</li><li>Usability Concept</li></ul>

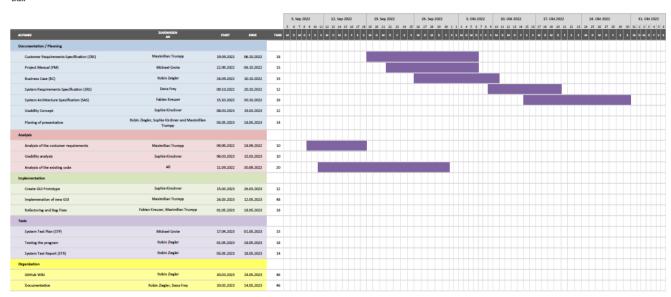


### 7. Gant-Chart

The original GANT-Chart could be found in GitHub (see <a href="https://github.com/robinziegler/TINF21C\_Team4\_Modelling\_Wizard\_Improvements/tree/master/PROJECT/PM">https://github.com/robinziegler/TINF21C\_Team4\_Modelling\_Wizard\_Improvements/tree/master/PROJECT/PM</a>).

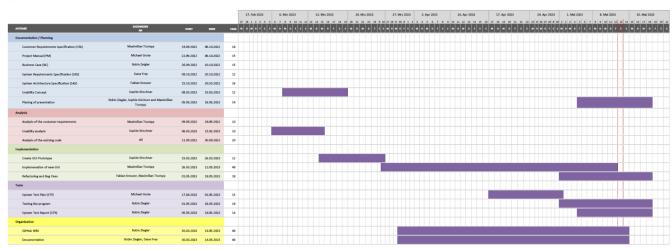
### First part of the project:





### Second part of the project:







### 8. Risks

#### • Financial Risk:

Due to delays in development or unforeseen bugs, the development effort could increase. The higher development effort would increase personal costs.

#### Actions:

By distributing development tasks among different team members, some processes can be performed more efficiently.

## • Planning Risk:

Time schedules might have been planned too tightly.

#### Actions:

For unexpected development efforts, a team member should act as a floater. In addition, certain buffers should be built into the schedules.

#### • Technical Risk:

Since development has already been started by a previous team, our team needs to get familiar with the existing code first. The programming language C# is only known to a limited extent in our team.

#### Actions:

A good familiarization with the existing project and the used programming language is necessary. In this context it is useful to get used to the existing documentation.

#### Legal Risk:

Due to the use of software from other developers, attention to possible legal conditions is necessary.

#### Actions:

When using components from other developers, attention must be paid to possible licenses and plagiarism must be avoided as much as possible.

#### Personal Risk:

Significant problems could arise due to possible staff absences. The spontaneous loss of a team member would compromise the scheduled completion.

#### Actions:

By distributing development among multiple team members, the impact of a team member leaving can be better hedged.



## 9. Changes during the project

After analyzing the existing application, it was decided to discard the application and make a new implementation. This was to reduce the development effort. This also allowed the use of a new framework, which simplified the implementation of a more modern GUI.

In addition, there was a personnel change during the project. Sophie Kirschner joined the team.

