

# Project Manual

(TINF21C, SWE)

**Project:** Modelling Wizard Improvements

**Customer:** Markus Rentschler

Christian Holder

<b>Team:</b>	Project Manager	– Robin Ziegler ( <a href="mailto:inf21100@lehre.dhbw-stuttgart.de">inf21100@lehre.dhbw-stuttgart.de</a> )
	Developer	– Nils Hoffmann ( <a href="mailto:inf21194@lehre.dhbw-stuttgart.de">inf21194@lehre.dhbw-stuttgart.de</a> )
	Test Manager	– Michael Grote ( <a href="mailto:inf21111@lehre.dhbw-stuttgart.de">inf21111@lehre.dhbw-stuttgart.de</a> )
	System Architect	– Fabian Kreuzer ( <a href="mailto:inf21106@lehre.dhbw-stuttgart.de">inf21106@lehre.dhbw-stuttgart.de</a> )
	Tech. Documentation	– Dana Frey ( <a href="mailto:inf21099@lehre.dhbw-stuttgart.de">inf21099@lehre.dhbw-stuttgart.de</a> )
	Product Manager	– Maximilian Trumpp ( <a href="mailto:inf21123@lehre.dhbw-stuttgart.de">inf21123@lehre.dhbw-stuttgart.de</a> )

## Change History

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

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# 1. Project Assignment

Project Assignment	
<b>Project Objective (Output)</b> The aim of the project is to analyze the usability of the existing Windows stand-alone 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.	
<b>Project Benefit (Outcome)</b> 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.	
<b>Customer:</b> M. Rentschler; C. Holder	<b>Project leader:</b> Robin Ziegler
<b>Team members:</b> <ul style="list-style-type: none"> <li>• Robin Ziegler</li> <li>• Maximilian Trumpp</li> <li>• Michael Grote</li> <li>• Fabian Kreuzer</li> <li>• Dana Frey</li> <li>• Nils Hoffmann</li> </ul>	<b>Previous developer team:</b> <ul style="list-style-type: none"> <li>• Linus Eickhoff</li> <li>• Florian Kellermann</li> <li>• Lukas Ernst</li> <li>• Florian Kaiser</li> <li>• Malte Horst</li> <li>• Rajkumar Pulaparthi</li> </ul>
<b>Main tasks:</b> <ul style="list-style-type: none"> <li>• Documentation</li> <li>• Analysis</li> <li>• Design</li> <li>• Development</li> <li>• Create tests</li> </ul>	<b>Milestones:</b> <ul style="list-style-type: none"> <li>• Analysis phase</li> <li>• Design phase</li> <li>• Coding</li> <li>• Test phase</li> <li>• Presentation</li> </ul>
<b>Project start event:</b> Introductory lecture with project assignment	<b>Project start date:</b> 09.September 2022
<b>Project end event:</b> Presentation of the Results	<b>Project end date:</b> 14.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 reduces the user friendliness. Also, some menus should be changed from the "Easy Mode" to the "Advanced Mode" to simplify the usage in the Easy Mode.

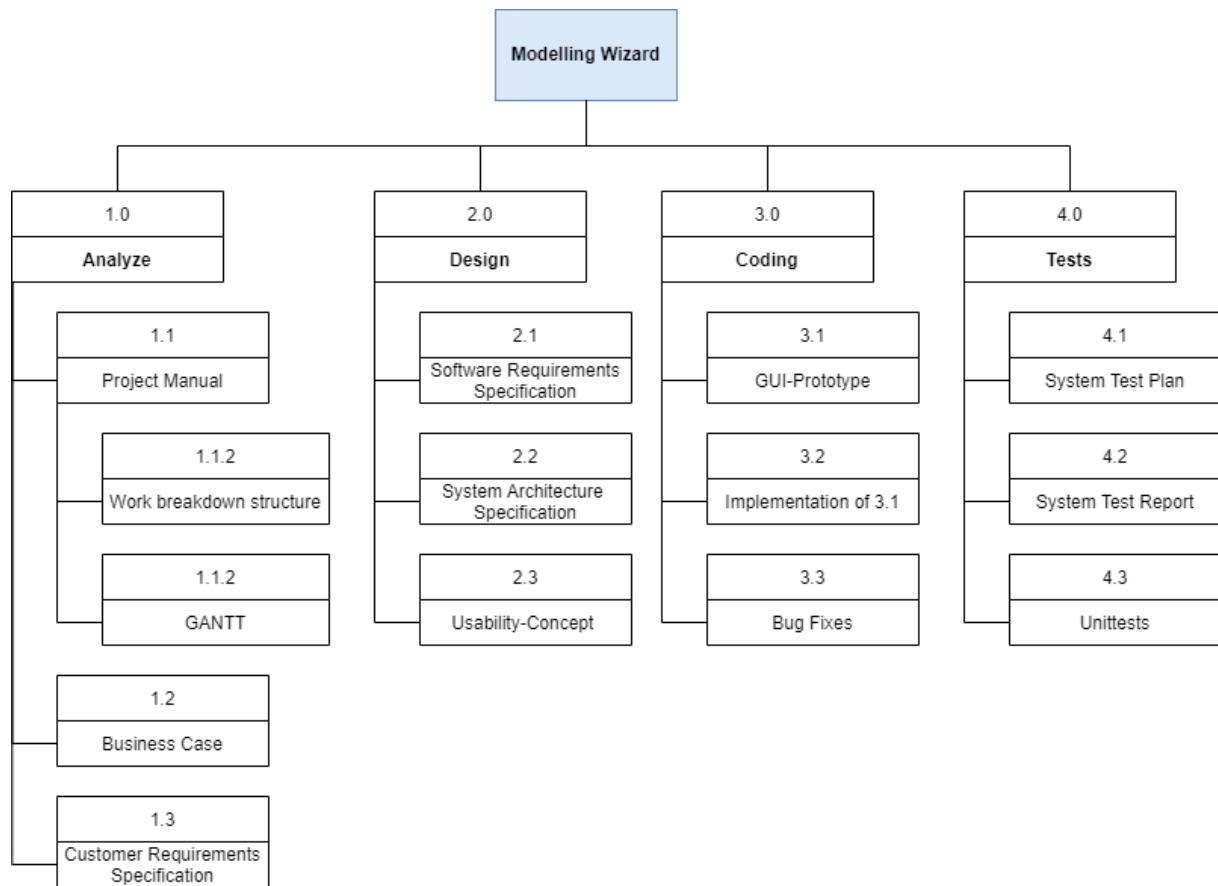
Temporal Project Context	
Pre-project phase	Post-project phase
<ul style="list-style-type: none"> <li>The stand-alone application has already been developed by another team. The GUI has some small bugs, and the user-friendliness can be increased even further</li> </ul>	<ul style="list-style-type: none"> <li>The existing GUI should be redesigned. The existing code should be refactored. New tests should be implemented for the software.</li> </ul>

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

### 3. Project Organization

Project Organization		
Position	Description	Name
Customer	<ul style="list-style-type: none"> <li>• Defines the project framework</li> <li>• Sets out the customer requirements</li> </ul>	Rentschler, Markus / Holder, Christian
Project leader	<ul style="list-style-type: none"> <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	Maximilian Trumpp Michael Grote Fabian Kreuzer Dana Frey Nils Hoffmann

## 4. Work Breakdown Structure (PSP)



## 5. Milestones

WP-Code	Milestone Name	Plan Date	Responsible Person
1.0	Analyze		
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
2.0	Design		
2.1	Software Requirements Specification	20.10.2022	Dana Frey
2.2	System Architecture Specification	20.10.2022	Fabian Kreuzer, Nils Hoffmann
2.3	Usability-Concept	11.11.2022	Fabian Kreuzer
3.0	Coding		
3.1	GUI-Prototype	30.09.2023	Maximilian Trumpp
3.2	Implementation of 3.1	30.03.2023	Fabian Kreuzer
3.3	Bug Fixes	30.04.2023	Fabian Kreuzer
4.0	Tests		
4.1	System Test Plan	20.03.2023	Michael Grote
4.2	System Test Report	14.05.2023	Michael Grote
4.3	Unittests	10.04.2023	Michael Grote

## 6. Lists of Tasks and responsible person

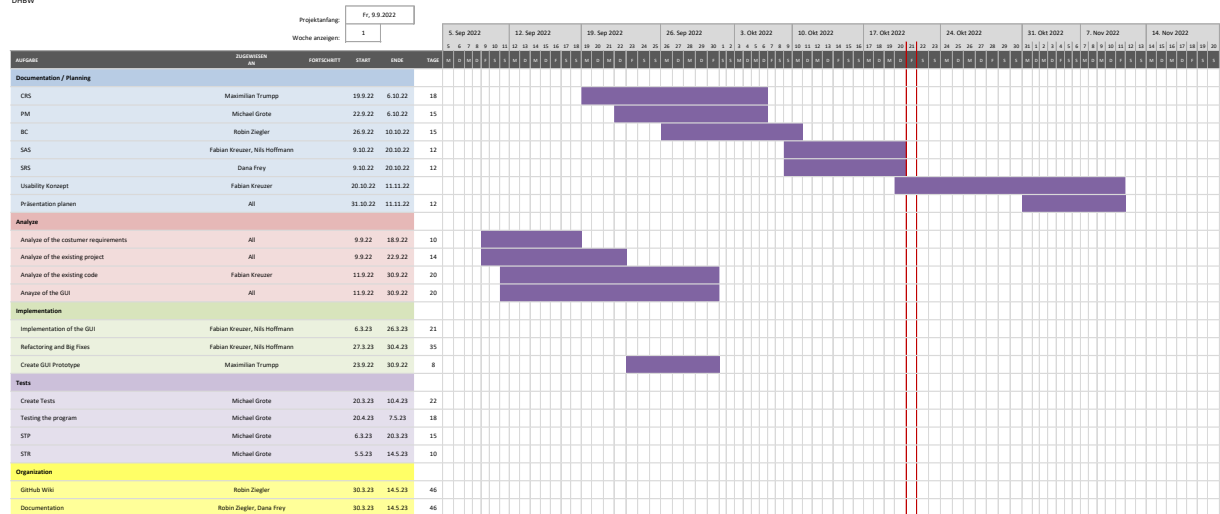
Activities and Responsibility		
Person	Category	Tasks
<b>Robin Ziegler</b> <i>Position:</i> Project Leader <i>GitHub-Name:</i> robinziegler	Documentation, Organization	<ul style="list-style-type: none"> <li>• Business Case</li> <li>• Organization of GitHub</li> <li>• Contact person to the Customer</li> </ul>
<b>Maximilian Trumpp</b> <i>Position:</i> Product Manager <i>GitHub-Name:</i> maximiliantrumpp	Documentation	<ul style="list-style-type: none"> <li>• Customer Requirements Specification</li> <li>• Contact person to the Customer</li> </ul>
<b>Michael Grote</b> <i>Position:</i> Test Manager <i>GitHub-Name:</i> michi3214	Documentation	<ul style="list-style-type: none"> <li>• Project Manual</li> </ul>
	Development	<ul style="list-style-type: none"> <li>• Unittests</li> </ul>
<b>Fabian Kreuzer</b> <i>Position:</i> System Architect <i>GitHub-Name:</i> Fabiankreuzer	Documentation	<ul style="list-style-type: none"> <li>• System Architecture Specification</li> </ul>
	Development	<ul style="list-style-type: none"> <li>• Implementation of the new GUI</li> </ul>
<b>Dana Frey</b> <i>Position:</i> Tech. Documentation <i>GitHub-Name:</i> DanaFrey	Documentation	<ul style="list-style-type: none"> <li>• Software Requirements Specification</li> <li>• Meeting Minutes</li> </ul>
<b>Nils Hoffmann</b> <i>Position:</i> Developer <i>GitHub-Name:</i> HoffmannNils	Documentation	<ul style="list-style-type: none"> <li>• System Architecture Specification</li> </ul>
	Development	<ul style="list-style-type: none"> <li>• Implementation of the new GUI</li> </ul>



## 7. Gant-Chart

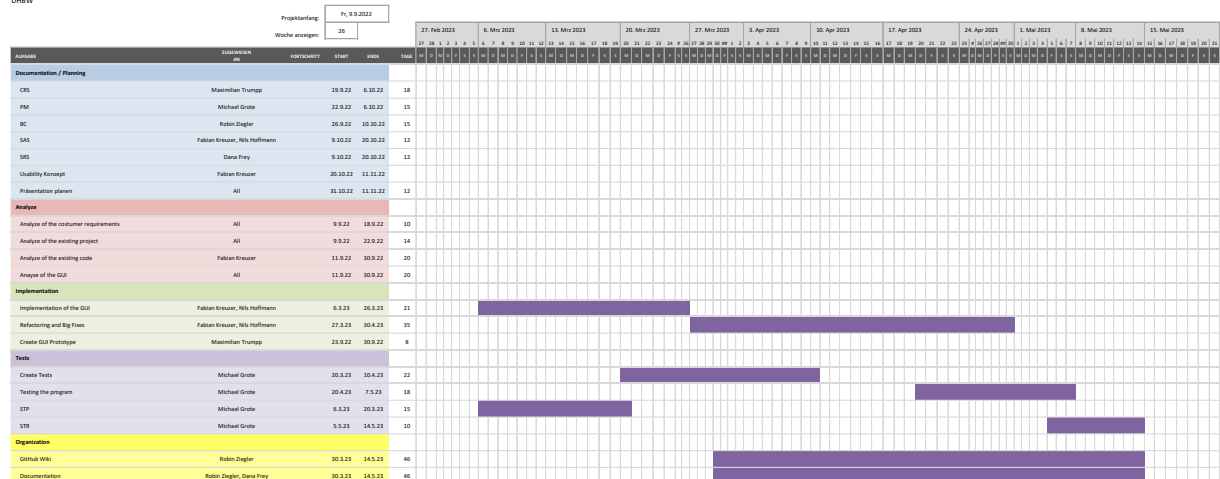
### First part of the project:

Modelling Wizard for Devices  
DHBW



### Second part of the project:

Modelling Wizard for Devices  
DHBW



## 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.