**Business Case**

(TINF20C, SWE I Praxisprojekt 2021/2021)

Project: Modelling Wizard for Cables

Customer: Rentschler & Holder

Rotebühlplatz 41

70178 Stuttgart

Supplier: Team 2 by Kevin Pauer (Leon Amtmann, Calvin Friedrich, Max Gohlke, Kevin Pauer,  
Thorsten Rausch, Tim Sellemann, Fabian Thomé)

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| --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Comment** |
| 0.1 | .2021 | Kevin | Created |
| 0.2 | .2021 |  |  |
| 0.3 | 15.10.2021 | Tim | Final cost calculation edited |
| 0.4 | 19.10.2021 | Kevin, Tim | Risks added |
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# Scope

The project defines a web-based application which allows the user to configurate cables, add device interfaces/ports and data attachments using a user-friendly GUI.

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# Profitable Benefits

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| **Benefits** | **Description** |
| **Higher efficiency and lower cost** | By using an easy-to-use User Interface, the costumer can more efficiently search for a product. AutomationML gives us the opportunity to store and exchange data effortlessly, thus significantly reducing the cost of data management and communication. |
| **Better customer experience** | Through the ability to configure the needed cable via a User Interface, the customer has a better and easier shopping experience. Happy costumers pay better and visit more regularly. |
| **Standardization** | AutomationML makes it possible to store cable data in a standardized format. This helps reduce costs and raise the efficiency of transactions and makes it easier to organize data. |

*Table 1: Qualitative and quantitative project benefits*

# Time frame

The project has a time frame from 13.09.2021 to END DATE, whereby it is not possible to continue working on it in the following months of December to February due to staff shortages, which was however observed in the schedule.

The following objectives should be achieved:

1. Research and planning of the project and the work packages must be completed by 22.10.2021.
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Detailed lists of tasks and time required by person:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Leon Amtmann (DOCU)** | **Calvin Friedrich (Pm)** | **Max Gohlke (LE)** | **Kevin Pauer (PL)** | **Thorsten Rausch (SA)** | **Tim Sellemann**  **(TM)** | **Fabian Thomé (LE)** |
| **PM** | **Project Management** | 0 | 60 | 0 | 70 | 0 | 0 | 0 |
| **Meetings** | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| **GitHub Organisation** | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| **Presentation** | J22 | 8 | 8 | 10 | 8 | 8 | 8 |
| **DEV** | **Documentation** | 90 | 15 | 10 | 20 | 10 | 15 | 10 |
| **Analysis** | 10 | 15 | 20 | 10 | 40 | 10 | 10 |
| **Design** | 5 | 30 | 10 | 10 | 40 | 10 | 15 |
| **Coding** | 0 | 0 | 70 | 10 | 10 | 15 | 65 |
| **Testing** | 0 | 0 | 15 | 0 | 20 | 70 | 25 |
|  | **Total (hours)** | **162** | **163** | **168** | **165** | **163** | **163** | **168** |

Table 2: Timeframe measurement

# Risks

* Financial risk: TEXTHALTER TEXTHALTER TEXTHALTER TEXTHALTER TEXTHALTER TEXTHALTER TEXTHALTER TEXTHALTER.  
  *Action* à *TEXTHALTER TEXTHALTER TEXTHALTER TEXTHALTER.*
* Planning risk: Defined project goals cannot be achieved as planned.

*Action* à *Project plan must be revised with realistic time and work schedules*.

* Communication risk: Less or incorrect communication can lead to unproperly processed tasks up to not completing tasks on time.

*Action* à *Regular meetings to keep track of progress.*

* Personnel risk: Employees can leave the project during the entire period.

*Action* à *Edit achieved progress and distribute work so that several people can cope with it.*

# Expenses

DESCRIPTION:

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| --- | --- | --- | --- | --- |
| **WORK** | **COST** |  | **ARBEITSPAKET** | **COST** |
| **Project Manager** | 34,30 €/h |  | **Project management (PM)** | 15.369,68 € |
| **Product manager** | 28,50 €/h |  | **Development (DEV)** | 21.297,15 € |
| **Leading Developer** | 32,17 €/h |  | **Total** | **36.666,83 €** |
| **System Architect** | 30,56 €/h |  |  |  |
| **Test Manager** | 29,19 €/h |  |  |  |
| **Documentation** | 25,33 €/h |  |  |  |

Table 3: Cost by work package

|  |  |  |  |
| --- | --- | --- | --- |
| **FIXED COSTS** | **PRICE** | **DURATION** | **TOTAL COST** |
| **Rent** | 330€/ monthly | 6 months | 1.980,00 € |
| **Extra costs** | 90€/ monthly | 6 months | 540,00 € |
| **Software and tools** | 30€/ monthly per user | 6 months 7 users | 1.260,00 € |
| **Provider services** | 150€/ monthly | 9 months | 1.350,00 € |
| **Total** |  |  | **5.130,00 €** |

Table 4: Fixed costs

# Profitability Calculation

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Profit calculation:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Quarter 1** | | **Quarter 2** | | **Quarter 3** | | **Quarter 4** | |
|  | **Dep.** |  | **Dep.** |  | **Dep.** |  | **Dep.** |  |
| **Subscription (Deposit/ monthly)** | 17 | 4.250 € | 21 | 5.250 € | 22 | 5.500 € | 23 | 5.750 € |
| **Lifetime licence** | 2 | 5.000 € | 3 | 7.500 € | 4 | 10.000 € | 4 | 10.000 € |
| **Total** | **+ 17.750 €** | | **+ 22.750 €** | | **+ 26.500 €** | | **+ 27.250€** | |

Table 6: Subscription profit calculation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Quarter 1** | **Quarter 2** | **Quarter 3** | **Quarter 4** |
| **Profit** |  |  |  |  |
| **Expenses** |  |  |  |  |
| **Total** |  |  |  |  |

Table 7: Profitability calculation