Business Case

Basyx Editor-Plugin-Erweiterung

Customer Stake-Holder: Rentschler & Wojcik

Provider: Team 3

|  |  |  |
| --- | --- | --- |
| Role | Name | Mail |
| Project Director | Martin Böhm | [inf24132@lehre.dhbw-stuttgart.de](mailto:inf24132@lehre.dhbw-stuttgart.de) |
| Project Manager | Florian Zahn | [inf24254@lehre.dhbw-stuttgart.de](mailto:inf24254@lehre.dhbw-stuttgart.de) |
| Test Manager | Daniel Ziegler | [inf24202@lehre.dhbw-stuttgart.de](mailto:inf24202@lehre.dhbw-stuttgart.de) |
| System Architect | Federico DiBenedetto/ Felix Bandl | [inf24072@lehre.dhbw-stuttgart.de](mailto:inf24072@lehre.dhbw-stuttgart.de) / [inf24227@lehre.dhbw-stuttgart.de](mailto:inf24227@lehre.dhbw-stuttgart.de) |
| Technical Documentation | Leonardo Risatti/ Morten Haase | [inf24074@lehre.dhbw-stuttgart.de](mailto:inf24074@lehre.dhbw-stuttgart.de) / [inf24033@lehre.dhbw-stuttgart.de](mailto:inf24033@lehre.dhbw-stuttgart.de) |

Please note that every Group-Member functions also as a Software-Developer!

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Short product-overview:

The *BaSyx Editor Plugin Extension* project aims to enhance the existing BaSyx GUI by extending the Editor Plugin, Viewer Plugin, and the REST API backend. The goal is to improve usability, data accessibility, and interoperability within the BaSyx ecosystem.

The extended solution will enable users to attach and process external model files within the Asset Administration Shell (AAS). After validation, the files will be linked according to their definitions and MIME types. Additionally, KBL and VEC files can be analyzed to extract key technical data—such as product features and general specifications—which will then be integrated into the AAS “General Technical Data” submodel.

Furthermore, the REST API will be enhanced to allow structured access to XML file contents, and the Viewer Plugin will be upgraded to visualize these internal data structures. The result will be a more powerful, user-friendly, and flexible tool that supports advanced data integration and visualization capabilities within the BaSyx platform.

# Why is the implementation of these features viable?

After the implementation of the given features, the over all-profitability of the end-product will increase through the factors of user-friendlieness, rise in efficency and customizability due to the possibity of manual edit posts. It is to be expected that the changes will be well received by the existing community, as they simplify operation, especially editing posts, for both technically savvy and laypeople. Users who have long wanted this feature will be even more convinced of the product. Furthermore, adding this feature will demonstrate a certain caring attitude toward our client's software and its users, which will further enhance our client's reputation and can help attract new users.

# Calculation of costs

## Fix-Costs

Estimated fix costs and costs for the implementation of this project:

|  |  |
| --- | --- |
| **Name** | **Cost in €** |
| Internet and Energy | 1000 |
| Software Licences | 700 |
| Server |  |
| Additional Hardware | 200 |
| **Total** | **1900** |

## Variable Costs (Personal cost)

Estimated variable costs for the implementation of this project:

|  |  |  |  |
| --- | --- | --- | --- |
| **Role** | **Name** | **Hourly Wage in €** | **Cost in € per week** |
| Project Director | Martin Böhm | 40 | 320 |
| Project Manager | Florian Zahn | 35 | 280 |
| Test Manager | Daniel Ziegler | 35 | 280 |
| System Architect | Federico Dibenedetto | 35 | 280 |
| System Architect | Felix Bandl | 35 | 280 |
| Technical Documentation | Leonardo Risatti | 35 | 280 |
| Technical Documentation | Morten Haase | 35 | 280 |
| **Total per week** |  |  | **2000** |

## Costs per Workphase

Estimated costs per Workphase for the implementation of this project:

|  |  |
| --- | --- |
| Name of Phase | Cost |
| Planning |  |
| Design |  |
| Implementing |  |
| Testing |  |
| Presentation |  |
| Rollout |  |