Business Requirements

Business Requirements constitute a specification of what the business wants, the purpose of initializing a specific project, what the needed achievements will be, and the quality measures. This is usually expressed in terms of broad outcomes the business requires, rather than specific functions the system may perform. Specific design elements are usually outside the scope of this document, although design standards may be referenced.

1 Introduction

1.1 Purpose

i4ware - SDK is a MIT licensed software development kit (SDK) that can be used to develop customized enterprise resource planning (ERP) systems or other types of software according to a customer's specific requirements. A software development kit typically includes a set of tools, libraries, and APIs (application programming interfaces) that developers can use to create software applications that integrate with the SDK.

1.2 Scope

i4ware - SDK provides a comprehensive set of development tools, libraries, and APIs for creating customized ERP systems or other types of software solutions. The SDK includes pre-built modules and components that can be configured and customized to meet specific business requirements. i4ware's scope encompasses the following:

- Development of software applications that integrate with the i4ware - SDK.
- Configuration and customization of pre-built modules and components to meet specific business requirements.
- Deployment and installation of i4ware - SDK-based solutions.
- Maintenance and support of i4ware - SDK-based solutions.

i4ware - SDK is designed to be a flexible and scalable platform for building tailored software solutions. Its scope is not limited to any specific industry or business function, and can be used for a wide range of applications such as finance, manufacturing, supply chain management, and more.

1.3 References

List any other documents or Web addresses to which this business requirements document refers. Provide enough information so that the reader could access a copy of each reference, including title, author, version number, date, and source or location.

Back-end: *https://laravel.com/*

Front-end: *https://react.dev/*

1.4 Overview of Document

This business requirements document is organized to provide a comprehensive overview of the i4ware software development kit (SDK) project. The document is divided into five sections, each focusing on different aspects of the project.

Section 1 provides an introduction to the project, including the purpose of the i4ware - SDK and its target audience.

Section 2 outlines the business requirements for the project, including the needs of the customer and the organization.

Section 3 describes the vision of the solution, including the key features and functionalities of the i4ware - SDK. Section 4 provides a detailed description of the business context, including the market opportunity and business objectives.

Finally, section 5 outlines the requirements traceability, including the relationship between the business requirements and the functional and non-functional requirements of the SDK.

2 Business Requirements

The business requirements provide the foundation and reference for all detailed requirements development. You may gather business requirements from the customer or development organization's senior management, an executive sponsor, a project visionary, product management, the marketing department, or other individuals who have a clear sense of why the project is being undertaken and the ultimate value it will provide, both to the business and to customers.

SAAS-669 - Background

This section provides an overview of the background and context that led to the development of the i4ware software development kit (SDK) project. It outlines the history, challenges, and opportunities that were identified as part of the project's inception.

The development of the i4ware - SDK was driven by the increasing demand for customized enterprise resource planning (ERP) solutions and other types of software that meet the unique needs of businesses and organizations. Existing solutions in the market often lack the necessary flexibility and customization options, leading to inefficiencies and suboptimal outcomes for users.

Recognizing this need, the i4ware - SDK project was initiated to develop a software development kit that provides businesses and organizations with the tools they need to create tailored solutions that meet their specific requirements. The goal is to provide a flexible, scalable, and reliable platform that can be easily integrated with existing systems and platforms.

Through extensive market research and analysis, it was identified that the demand for customized software solutions is growing rapidly, driven by the need for businesses to increase productivity, reduce costs, and improve efficiency. The i4ware - SDK is positioned to meet this demand and provide businesses with the competitive advantage they need to succeed in their respective markets.

In addition, the i4ware - SDK project is aligned with the strategic objectives of the development organization, which seeks to establish itself as a leading provider of enterprise software solutions. The project will enable the organization to expand its offerings and provide its customers with a comprehensive suite of software solutions that address their evolving needs and requirements.

[⊕ Should Have, ✏ Draft]

SAAS-670 - Business Opportunity

The i4ware - SDK offers a unique opportunity for businesses and organizations to create customized enterprise resource planning (ERP) solutions and other types of software that meet their specific needs. The market for ERP software is large and growing, with businesses of all sizes and across different industries requiring tailored solutions to address their unique challenges.

Currently, businesses face several challenges when it comes to ERP solutions, including high implementation costs, long deployment times, and limited flexibility. The i4ware - SDK addresses these challenges by providing a flexible and customizable solution that can be deployed quickly and at a lower cost than traditional ERP software.

Additionally, the i4ware - SDK offers several key features that are not available in existing ERP solutions, including comprehensive reporting capabilities, user-friendly interfaces, and easy integration with other systems. This makes the i4ware - SDK an attractive option for businesses looking to improve their efficiency, reduce costs, and perform new tasks or functions.

By offering a unique combination of flexibility, ease of use, and cost-effectiveness, the i4ware - SDK has the potential to capture a significant share of the ERP software market and become a leading solution for businesses and organizations around the world.

[⊕ Should Have, ✏ Draft]

SAAS-671 - Business Objectives and Success Criteria

The i4ware - SDK project has several business objectives that are critical to its success. These objectives include:

1. Increasing revenue: The i4ware - SDK is designed to help businesses create tailored ERP solutions or other types of software, which can lead to increased productivity and reduced costs. By providing customers with a software development kit that is flexible,

customizable, and easy to use, the i4ware - SDK can help businesses achieve their goals and improve their bottom line.

2. Improving customer satisfaction: By providing customers with a software development kit that is tailored to their specific needs and requirements, the i4ware - SDK can help businesses improve their customer satisfaction levels. This can lead to increased loyalty, repeat business, and positive word-of-mouth referrals.

3. Staying competitive: In today's fast-paced business environment, it is essential for companies to stay ahead of the curve and remain competitive. By providing customers with a software development kit that is scalable, reliable, and easy to use, the i4ware - SDK can help businesses stay ahead of their competitors and maintain their market share.

To achieve these business objectives, the i4ware - SDK project has established the following success criteria:

1. Revenue targets: The project aims to achieve a specific revenue target within a certain timeframe. This target will be measured on a regular basis to ensure that the project is on track to meet its goals.

2. Customer satisfaction ratings: The project aims to achieve a specific customer satisfaction rating, which will be measured through surveys, feedback forms, and other means of communication. This rating will be monitored on a regular basis to ensure that customers are satisfied with the product and that their needs are being met.

3. Competitive positioning: The project aims to achieve a specific level of competitive positioning within the market. This will be measured through market research, competitor analysis, and other means of assessment. The project team will work to ensure that the i4ware - SDK is positioned as a leading solution within its target market.

By achieving these success criteria, the i4ware - SDK project will be able to meet its business objectives and deliver value to both the business and its customers.

[🔴 Should Have, 🖊 Draft]

SAAS-672 - Customers

The primary customers for the i4ware - SDK are businesses and organizations that require customized enterprise resource planning (ERP) solutions or other types of software. These customers have a specific set of requirements and are looking for a software development kit that can help them create tailored solutions that meet their unique needs.

The major value that these customers will receive from the i4ware - SDK includes improved productivity, reduced rework, cost savings, streamlined business processes, and the ability to automate previously manual tasks. They are likely to be highly interested in features such as customization options, scalability, reliability, and ease of use.

Constraints that must be accommodated for this stakeholder group include compatibility with existing systems and platforms, security, and compliance with relevant regulations and standards. **[** Should Have, Draft **]**

SAAS-706 - Target Market Segments

The i4ware - SDK targets businesses and organizations of all sizes and across different industries. The product is designed to be flexible and customizable, allowing it to meet the needs of various market segments.

The major value that target market segments will receive from the i4ware - SDK includes increased efficiency, improved decision-making, reduced costs, and the ability to perform entirely new tasks or functions. They are likely to be highly interested in features such as user-friendly interfaces, comprehensive reporting capabilities, and easy integration with other systems.

Constraints that must be accommodated for this stakeholder group include compatibility with different types of hardware and software, scalability, and ease of deployment.

[Should Have, Draft **]**

SAAS-673 - Business Risks

Developing the i4ware - SDK project involves certain risks that could negatively impact its success. In this section, we outline some of the major business risks associated with the project and identify potential mitigation strategies.

Market Competition

One of the major risks facing the i4ware - SDK project is competition from existing and future software development kits. We need to ensure that our product stands out from the competition in terms of its features, usability, and scalability.

Mitigation Strategy: Conduct a thorough analysis of the market and competition to identify key areas of differentiation. Continuously monitor market trends and customer feedback to ensure that the product remains relevant and competitive.

Technology Risks

The i4ware - SDK project relies on various technologies, and any issues with these

technologies could negatively impact the project's success. These risks include technical issues with the software development kit, changes in programming languages or software development frameworks, or compatibility issues with different hardware and software platforms.

Mitigation Strategy: Conduct thorough testing and quality assurance processes to identify and address any technical issues. Continuously monitor industry trends and technology updates to ensure that the product remains up-to-date and compatible with the latest platforms and programming languages.

User Acceptance

The success of the i4ware - SDK project is highly dependent on user acceptance. If the product is not well-received by its target audience, it may not achieve the desired business outcomes.

Mitigation Strategy: Conduct extensive user research and testing throughout the development process to ensure that the product meets user needs and expectations. Use customer feedback to inform ongoing product development and improvement.

Implementation Risks

Implementing the i4ware - SDK project involves various implementation risks, including delays in development, unexpected technical issues, or issues with integration with existing systems.

Mitigation Strategy: Develop a comprehensive implementation plan that includes clear milestones and deadlines, regular progress reporting, and contingency plans for any unexpected issues. Establish strong communication channels with all stakeholders to ensure that everyone is informed and involved throughout the implementation process.

Regulatory Compliance

The i4ware - SDK project may be subject to various regulations and compliance requirements, including data privacy regulations, cybersecurity regulations, or industry-specific compliance requirements.

Mitigation Strategy: Conduct thorough research to identify all applicable regulations and compliance requirements, and develop a plan to ensure that the product is compliant with all

relevant regulations. Involve legal and regulatory experts throughout the development process to ensure that all compliance requirements are addressed.
[⬆ Should Have, 🖊 Draft]

3 Vision of the Solution

This section establishes a long-term vision for the system to be built to address the business objectives. This vision will provide the context for making decisions throughout the course of the product development life cycle. The vision should not include detailed functional requirements or project planning information.

SAAS-675 - Vision Statement

The i4ware software development kit (SDK) project aims to revolutionize the way developers create software applications for the i4ware platform. Our vision is to provide a comprehensive and user-friendly SDK that enables developers to easily create high-quality applications that leverage the full potential of the i4ware platform. We strive to empower developers to create innovative and valuable solutions that enhance the user experience, increase productivity, and drive business growth. **[**⬆ Should Have, 🖊 Draft **]**

SAAS-676 - Major Features

Major Features:

1. User-friendly interface that allows for easy navigation and use of the software.
2. Integration with existing systems and tools to streamline workflows and increase efficiency.
3. Robust security measures to protect sensitive data and prevent unauthorized access.
4. Customizable dashboards and reports to provide real-time insights into key performance indicators.
5. Flexible configuration options to allow for customization based on individual business needs.
6. Reliable and scalable infrastructure to support growth and expansion.
7. Automated processes and workflows to reduce manual errors and increase productivity.
8. Integration with third-party applications to expand functionality and provide additional value to users.
9. Mobile compatibility to enable access to the software on-the-go.
10. Comprehensive training and support resources to ensure successful adoption and use of

the software.

[⊕ Should Have, 🖊 Draft]

SAAS-677 - Assumptions and Dependencies

Assumptions:

- The i4ware SDK will be developed using the latest programming technologies and frameworks available in the market.
- The users of the i4ware SDK will have a basic understanding of programming languages and software development concepts.
- The hardware and software infrastructure used to develop and test the i4ware SDK will be of adequate capacity and performance.

Dependencies:

- The development of the i4ware SDK is dependent on the timely delivery of hardware and software infrastructure.
- The project team will be dependent on the availability and cooperation of key stakeholders, including the project sponsor, customers, and end-users.
- The success of the i4ware SDK is dependent on the adoption and satisfaction of its users, which will be influenced by factors such as market competition, pricing, and quality.

[⊕ Should Have, 🖊 Draft]

SAAS-678 - Scope and Limitations

Scope: The i4ware SDK project aims to develop a comprehensive software development kit that includes a range of features and functionalities for building innovative software applications. The SDK will provide developers with a set of tools and APIs that they can use to develop software applications for different platforms and devices.

The scope of the project includes the following:

1. Development of a comprehensive SDK that includes a range of features and functionalities for building software applications.
2. Support for multiple programming languages and platforms.
3. Integration with third-party APIs and services.
4. Compatibility with different devices, including desktops, mobiles, and wearables.

Limitations: The following limitations apply to the i4ware SDK project:

1. The SDK will only support a limited number of programming languages and platforms initially.
2. The SDK may not be compatible with all third-party APIs and services.
3. The SDK may have performance issues on some devices, particularly those with low processing power or limited memory.
4. The SDK will not include support for all devices and platforms initially, and support for new devices and platforms may be added in future releases.

[🔺 Should Have, 🖊 Draft]

SAAS-679 - Scope of Initial Release

Scope of Initial Release:

The initial release of the i4ware - SDK for React and Laravel will include the following features and functionalities:

1. Core SDK functionality: The SDK will provide a comprehensive set of tools and libraries for developing high-performance, scalable, and secure applications.
2. Platform support: The SDK will support multiple platforms including Windows, Linux, and macOS.
3. React and Laravel support: The SDK will support the latest versions of React and Laravel.
4. Programming language support: The SDK will support multiple programming languages including PHP, JavaScript, HTML5, CSS3, and SQL.
5. Integration with third-party tools: The SDK will integrate seamlessly with popular third-party tools such as IDEs and source control systems.
6. Sample code and documentation: The SDK will come with a set of sample code and comprehensive documentation to help developers get up and running quickly.
7. Technical support: The SDK will include technical support to assist developers with any issues they encounter during development.

Please note that the initial release will have some limitations, which will be addressed in future releases. These limitations include:

1. Limited feature set: The initial release will include a limited set of features, with additional features being added in future releases.

2. Limited platform support: The initial release will support only a subset of platforms, with additional platforms being supported in future releases.

3. Limited language support: The initial release will support only a subset of programming languages, with additional languages being supported in future releases.

4. Limited integration with third-party tools: The initial release will have limited integration with third-party tools, with additional integration being added in future releases.

5. Limited technical support: The initial release will have limited technical support, with additional support being provided in future releases.

[⬆ Should Have, ✏ Draft]

SAAS-680 - Scope of Subsequent Releases

The subsequent releases of the i4ware - SDK will build upon the features and functionalities included in the initial release, with a focus on expanding the scope and improving the quality of the SDK. Some of the areas that will be addressed in subsequent releases include:

1. Additional features: Subsequent releases will include additional features and functionalities to meet the evolving needs of developers and users.

2. Expanded platform support: Subsequent releases will expand the platform support to include additional operating systems and devices.

3. Expanded language support: Subsequent releases will expand the programming language support to include additional languages.

4. Improved integration with third-party tools: Subsequent releases will improve the integration with popular third-party tools such as IDEs and source control systems.

5. Enhanced technical support: Subsequent releases will enhance the technical support to provide more comprehensive and timely assistance to developers.

[⬆ Should Have, ✏ Draft]

SAAS-681 - Limitations and Exclusions

In addition to the limitations mentioned above, there are certain exclusions and limitations that apply to the i4ware - SDK project. These include:

1. Third-party hardware or software dependencies: The SDK will not include support for any

specific third-party hardware or software, unless explicitly mentioned in the documentation.

2. Customization or modification: The SDK is not intended to be customized or modified by end-users. Any customization or modification to the SDK must be done by the development team responsible for the SDK.

3. Guarantee of compatibility: While we will make every effort to ensure compatibility with other software and hardware, we cannot guarantee that the SDK will be compatible with all third-party software and hardware.

4. Training or education: The SDK will not include any training or education for end-users, developers, or other stakeholders. Any training or education must be provided by the development team or other third-party vendors.

[Should Have, Draft]

4 Business Context

This section summarizes some of the business issues around the project, including profiles of major customer categories, assumptions that went into the project concept, and the management priorities for the project.

SAAS-683 - Stakeholder Profiles

Stakeholders play a crucial role in the success of any project. In this section, we identify the key stakeholders for the i4ware - SDK project and their major interests in the product:

1. Project Sponsor: The project sponsor is typically a senior executive within the organization who has authorized the project and is responsible for ensuring its success. The sponsor provides overall direction and support to the project team, and is the primary point of contact for stakeholders outside the project team.

2. Project Manager: The project manager is responsible for planning, executing, and closing the project. They oversee the day-to-day operations of the project team, and are responsible for ensuring that the project is completed on time, within budget, and to the satisfaction of all stakeholders.

3. Development Team: The development team is responsible for designing, developing, and testing the i4ware - SDK. The team includes developers, designers, and testers who work closely together to create a high-quality product.

4. Sales and Marketing Team: The sales and marketing team is responsible for promoting the i4ware - SDK and generating sales. They work closely with the development team to ensure that the product meets the needs of the target audience, and develop marketing strategies to reach potential customers.

5. Customers: The customers are the end-users of the i4ware - SDK. They may be developers, businesses, or individuals who require software development tools to create applications. The customers provide feedback on the product and may request new features or functionality.

[Nice to Have, Draft]

SAAS-684 - Project Priorities

Project priorities refer to the relative importance of different aspects of the project to the stakeholders. These priorities help to guide the decision-making process throughout the project's lifecycle. The project priorities for the i4ware - SDK project are as follows:

1. Functionality: The core functionality of the SDK is the highest priority. It must meet the needs of the target audience and provide a comprehensive set of tools and libraries for developing high-performance, scalable, and secure applications.

2. Quality: The SDK must be of high quality, with minimal bugs and errors. The quality of the code and documentation is of utmost importance, as it will affect the SDK's usability and adoption.

3. Time-to-market: The SDK must be released on time to ensure that it remains competitive and relevant in the market.

4. Cost: The project must be completed within budget, with minimal additional expenses incurred during the development process.

5. User experience: The user interface and experience design of the SDK are important, but they are of lower priority than the core functionality and quality of the SDK.

6. Platform support: The SDK must be developed for multiple platforms, but platform-specific features and functionalities are of lower priority than the core functionality of the SDK.

7. Language support: The SDK must support multiple programming languages, but language-specific features and functionalities are of lower priority than the core functionality of the SDK.

These priorities may shift over the course of the project as the needs of the stakeholders change

or new requirements emerge. It is important to continually reassess the project priorities and adjust the development process accordingly.

[🔽 Nice to Have, 🖊 Draft]

SAAS-685 - Operating Environment

The i4ware - SDK project will operate in a complex and dynamic environment, with multiple stakeholders and dependencies. The project team will need to carefully manage the operating environment to ensure the success of the project.

The operating environment for the i4ware - SDK project includes:

1. Hardware and software infrastructure: The project will require a robust hardware and software infrastructure to support development, testing, and deployment of the SDK. This includes hardware resources such as servers and workstations, as well as software resources such as operating systems, databases, and development tools.

2. Development and testing tools: The project team will require a range of development and testing tools to support the development of the SDK. This includes IDEs, code editors, testing frameworks, and debugging tools.

3. Collaboration tools: The project team will require collaboration tools to facilitate communication and coordination between team members. This includes tools such as project management software, messaging apps, and video conferencing software.

4. Stakeholder communication and engagement: The project team will need to engage with a range of stakeholders throughout the project lifecycle, including customers, end-users, management, and external partners. Effective communication and engagement will be critical to the success of the project.

5. Regulatory and compliance requirements: The project will need to comply with a range of regulatory and compliance requirements, including data protection regulations, software licensing requirements, and industry standards.

6. Organizational culture and processes: The project team will need to operate within the context of the organizational culture and processes. This includes aligning with the project management framework and change management processes, as well as working within the constraints of the organizational structure and governance processes.

[🔴 Should Have, 🖊 Draft]

5 Requirements Traceability

Provide a matrix that relates software modules to software requirements and vice versa.