



**UNIVERSITY OF
GREENWICH**



COMP1787

REQUIREMENTS MANAGEMENT

ASPOSE
Your File Format APIs

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Section A – Management Summary

1 Management Summary

1.1 Introduction

Green Groceries has distinguished itself as an ethical company with a robust reputation over the past half-decade. Through its collaborative efforts with local farmers and environmentally conscious suppliers, the company has established itself as a stalwart in the industry. By prioritizing sustainability and quality, Green Groceries has not only cemented a strong foundation but has also consistently delivered eco-friendly products to the market.

Current issues: The company has faced difficulties in the past with the "waterfall" project. In addition, they have to face challenges such as protecting customer information, laws that need to be complied with, traffic, and paperwork issues, thereby causing competitive pressure.

1.2 Agile methodology

The Agile methodology stands out as a widely adopted process framework within the realm of software development. Founded upon the fundamental values and principles espoused in the Agile Manifesto, it has emerged as a cornerstone approach for modern software engineering practices. From there, resolve requests and provide solutions continuously. Agile project iteration reduces wasted resources, time, and development effort. Agile often emphasizes the human element in the software development process. From there, satisfy customers through early provision of valuable software. (Salza, P, 2019)

The advantage of Agile is the ability to be flexible in changing customer requirements. During the software development process, Green Grocery Company's requirements may change, edit or supplement knowledge and conditions. Agile development teams are adaptable and flexible to these changes. This ensures that the final product offering meets the customer's most desirable needs. Additionally, Agile projects reduce risk by breaking the project into smaller parts and ensuring the product is tested and feedback is given early. Thereby increasing customer satisfaction.

1.3 Dynamic Systems Development Method (DSDM)

DSDM serves as the primary method employed across the entire project lifecycle. It's an agile framework centered on rapid application development (RAD) and emphasizes quality. Offering comprehensive support throughout the software development process, DSDM, like other flexible models, advocates for an iterative and incremental approach, ensuring customer involvement. It allows for adjustments to time and resources, enabling functions to be refined during development (Stapleton, J. 1997).

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1.4 Scrum methodology.

The scrum methodology is a development framework that has an iterative process during product development. It is seen as a comprehensive and flexible product development strategy. A "sprint" in scrum typically lasts 2 to 4 weeks, which is how scrum works by breaking large projects into smaller, more manageable tasks. The principle of scrum is to be present in the fluctuation of requirements during production. Customers can change their thoughts about what they want and need. These methods are unpredictable and cannot predict how to address the delivery system that is the priority of scrum.(Sachdeva, S 2016)

1.5 Strengths and weaknesses of Agile in the Green Groceries project.

1.4.1 Advantages of Agile method for projects (Indeed Team, 2023)

- Provide flexibility to allow Green Grocery company requirements to change. Additionally, respond quickly in business environments or customer requests.
- The scrum method allows for the flexibility to express work in response to customer needs and market trends.
- This method will often optimize the software development process and increase interaction between team members. From there, the project implementation process will be accelerated, helping the company save time and resources.
- Increase customer satisfaction by meeting customer needs. From there, the final product will match the customer's wishes.

1.4.2 Disadvantages of Agile method for projects (Indeed Team, 2023)

- This method often depends on the cooperation of group members. Often, without good cooperation, there will be many difficulties. Because many people are familiar with the method of conveying the method, a change in mindset and training of team members is required.
- Scope management will often be complicated due to flexibility.
- Risk of misinterpreting requirements Additionally, due to the flexibility of Scrum, there can be a risk of misinterpreting requirements or not predicting changing requirements.

1.6 Why Agile may suit Green Groceries

I completely agree with your point about choosing the Scrum framework for this project. Although Agile is an agile development method and focuses on collaboration between stakeholders, it may not ensure that all customer requirements are fully met. Scrum, on the other hand, typically focuses on product manufacturing and ensuring that the final product meets

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customer needs. This approach promotes an emphasis on ensuring product quality and reliability, while maintaining flexibility during development. By using scrum, companies can optimize the product manufacturing process, while ensuring that customer requirements are considered and met throughout the development process. Using a scrum framework for a project allows for continuous improvements, and agility allows the company to take advantage of rapid feedback mechanisms to identify what needs improvement and do it quickly. This enhances customer satisfaction and ensures that the final product meets their business goals and expectations. I am sure that Scrum is the most suitable method for the Green Grocery project.

1.7 Technical feasibility

Green Groceries Company is a company with a solid foundation. Proficiency in Scrum and agile methods ensures the technical feasibility of this project well suited for rapid development and delivery.

1.8 Feasible economy:

Project development requires investment in software development. The project's return on investment is very potential with sustainable products, so demand is increasing and the market is getting wider. In addition, this method allows for long-term cost savings.

1.9 Legal Feasibility

By complying with legal requirements such as VAT Fees, protecting customer information and user rights. Software development always complies with legal standards. Thereby minimizing financial risks for the company.

Section B

B1. Base line requirements

B1.1 Inappropriate requirements in high-level requirements

High-level requirements are general system requirements that need to be fulfilled. These requirements will often not be specific. These requirements will be identified during the early stages of product development to provide more detailed guidelines and frameworks in the future. Below is a list of requirements listed as inappropriate:

ID	Requirements	Reasoning
2	Maintain at least 20 office plants as part of the company's commitment to a green and healthy workspace	For this request, it does not match the system requirements. It's more like taking care of plants than a function in a website. This job is more suitable for people who specialize in trees and in addition, it also contributes to better air, not related to project requirements.
4	Organize a virtual celebration on the website for the CEO's birthday to showcase the company's fun and friendly culture.	Celebrating the CEO's birthday has nothing to do with the functionality of a website. In my opinion, this request is more related to the event or promotion, not the functionality of the website. This requirement can also be used for company promotion but because it is not a system requirement
9	The company should adopt pet-friendly policies to create a positive and inclusive work environment.	Deciding on this policy is not a requirement for web development. Additionally, this website specializes in organic products that do not have too much to do with pets or livestock.
17	The development team should participate in a team-building event every quarter to foster collaboration and a positive work environment.	This requirement is similar to organizing a conference for customers and the development team to discuss. It is an internal operational requirement of the development team and users and is not directly related to business goals or end-user needs.

B1.2 Baseline requirements rewritten.

Below is a list of appropriate website requirements.

ID	Requirements	Reasoning
3	Customers can manage and change their account details and make sure the latest updates are recorded.	This request allows customers to change personal information and update it on the system. It is also possible to change the password. This password will be encrypted to keep customer information secure. These updates will always be up to date in case the user does not pay attention to editing the shipping address or editing the phone number or other personal information during the ordering and receiving process. This change makes it easier for users to update accurate information, thereby making it easier to send orders.

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6	Customers are allowed to register and log in to the Green Groceries website	Customers being able to register and log in is essential for a shopping or sales website. The job of an account is to store user information. This information will be kept confidential along with the user's account and password. Logging into the website allows users to store items in the shopping cart. When they leave the website or have problems with the website, the shopping cart will still be there. In addition, user-level information can quickly make deliveries without having to edit information such as name, address, or phone number.
7	As a customer, users can customize delivery locations according to their own schedule.	Customizing delivery information allows customers to receive goods on their own schedule. The Green Groceries website allows users to customize order information such that customers can receive goods at their own time. What time is it and where can I pick it up? Customers can edit this information before ordering. It ensures users can receive goods without worrying about time inconvenience.
8	Users can optionally change the shopping cart to change what they want to buy.	Cart tweaks allow customers to easily adjust their list of selected products. Including adjusting the quantity and removal according to the user's needs. During the shopping process, customers can change their decisions. They want to add new products to the shopping cart and remove products that they do not need, choose wrongly or do not have enough budget.
10	The system will increase access by 30% during peak times but will not reduce system performance.	This helps enhance user experience. Because when the system is overloaded, it will cause delays and reduce access performance. Causes loss of revenue from customers who cannot access the website.
13	The order processing clerk wants to use web ordering services, use merchandise transactions via phone or PC, and stop using paper.	Processing orders via phone or computer. Helps clerks be more flexible in processing orders anywhere via phone or computer. Avoid cumbersome paperwork such as searching for customer information or having many errors in the recording process that cannot be corrected.

15	All User and Payment Data are subject to the highest level of security at all times.	Protecting customer information is respecting customer privacy. That is how businesses show respect and care for customers. In addition, it also increases customer trust in the business. Because when users see that their information is protected, they will tend to feel secure and continue with the business's products
16	Consistent brand elements and design across the entire site to reinforce recognition in the marketplace	Maintaining brand consistency allows customers to easily identify the brand. Consistency in design, color selection, fonts and other elements helps create strong brand recognition. Customers easily recognize and remember the business's brand. It also creates trust, because when customers use the website. On pages with the same design, they tend to feel more confident about the brand and product.
19	Websites must always comply with legal regulations on VAT fees to avoid heavy fines.	Failure to comply with VAT laws can result in fines and sanctions from tax authorities. It will affect the finances of the business and create serious legal problems. Compliance with the law helps protect a business's reputation and reputation. It also helps the company stabilize its finances.
20	Integrate many payment methods on the website to capture many different markets.	Payment scalability allows customers to have more choices about payment gateways that suit them. Because each customer often has their own preference for using cards such as credit cards, e-wallets, or bank transfers. That way the business will attract a larger number of customers.

B2. Requirements prioritized

B2.1 Time Box

ID	Requirements	Estimation (Hour)	Break tasks
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3	Customers can manage and change their account details and make sure the latest updates are recorded.	300	This is a basic but quite important requirement for a website. This request includes the design of the user interface (UI), which takes about 100 hours to plan the design and apply it to the website and server-side logic that allows the management of personal information. The user's core will spend about 200 hours perfecting the backend.
6	Customers are allowed to register and log in to the Green Groceries website	200	Login and registration are important parts of the website. We will divide the time into 2. 90 hours for registration because registration will take more time and effort. 60 hours for logged work. 50 hours for UI design of login and registration
7	As a customer, users can customize delivery locations according to their own schedule.	200	Design delivery address management interface (50 hours). Implement logic such as adding, deleting, editing shipping addresses (150 hours).
8	Users can optionally change the shopping cart to change what they want to buy.	150	Design shopping cart interface (50 hours). Implement logic such as adding, deleting, editing cart and also develop interface to modify product quantities (150 hours).
10	The system will increase access by 30% during peak times but will not reduce system performance.	500	This work takes a lot of time and effort from programmers. Such as checking user traffic to prevent system congestion. Optimize data queries in the database. In addition, it is necessary to expand the infrastructure to handle user traffic.
13	The order processing clerk wants to use web ordering services, use merchandise transactions via phone or PC, and stop using paper.	400	Design UI interface for order processing (50 hours). Deploy order processing from phone (30 hours). Develop order verification and confirmation functions (250hours). Test handling and repair functions (70 hours)
15	All User and Payment Data are subject to the highest level of security at all times.	300	Apply strong authentication mechanisms to the system and implement HTTPS for safety (200 hours). Security testing and vulnerability assessment (100 hours).
16	Consistent brand elements and design across the entire site to reinforce recognition in the marketplace	150	Spend a lot of time designing to fit customer requirements until customers feel satisfied

			(About 100 hours). Integrate onto website pages (50 hours)
19	Websites must always comply with legal regulations on VAT fees to avoid heavy fines.	200	Programmers must always comply with tax structures that apply to businesses.
20	Integrate many payment methods on the website to capture many different markets.	100	Research available payment gateways (10 hours). Integrate those payment gateways into the website (60 hours). Test and fix errors (30 hours).

B2.2 High level requirements list

ID	Requirements	Priority
3	Customers can manage and change their account details and make sure the latest updates are recorded.	Must have
6	Customers are allowed to register and log in to the Green Groceries website	Must have
7	As a customer, users can customize delivery locations according to their own schedule.	Should have
8		

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