

**UNIVERSITY OF GREENWICH**  
Module code – Module name

Assessment name

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# Section A: Management Summarize

## Introduce:

### Case study Introduce

The company has a good reputation for five years. They are primarily based on the collaboration of local farmers and Environmentally conscious providers. With a good foundation, they decided to expand their domain of reach in the market. They are providing more accessibility to their sustainable products. Because technology is gradually entering human life, the company has decided to develop and launch an online platform in the following months.

The main aim of the project is to expand the ability of accessible to access their product to customers and get profit from the expanded customer base. For example, more accessibility for their product means more people should know about their product and purchase. Furthermore, they can develop the business market, which helps them grow company profit and size.

Due to the abstraction of the software development department, they prefer to hire outsourcing to develop the software project. They have faced several challenges with the Waterfall methodology, which is the traditional approach. They carefully consider choosing the system concepts that lead to the project development following the SCRUM and Agile Concepts methodology.

The reason for choosing outsourcing might be its advantages. According to (Shagufta, 2024), an expert Digital specialist with expertise in Shopify web development said that outsourcing gives the company advantages of cost saving and efficiency. It is allowing companies to focus on core competencies. Able to scale up the project or down based on demand. It also provides flexibility and adaptability, which is offered by outsourcing. The project adapts Agile methodology. Agile methodology refers to a group of familiar methodologies that adapt, Adaptability, Iterative development, user involvement, and simplicity. The critical concept of Agile is developing software in a short time with tools that call timeboxes iteratively. Each iteration is like a minimal project size, showing the end-user how to gather information and iterate again. To work well with the Agile SCRUM framework is used. SCRUM is defined as an agile framework that emphasises flexible user involvement. The project will mainly use Agile project management and SCRUM. I will discuss the advantages and disadvantages as well as other considerations. Another vital resource in the project is human resources. With a careful plan and appropriate approach, the project can go smoothly, but it will fail if human resources are not valuable. This project requires outstanding people to succeed; the human resource department requires a skilled programmer, web developers, and a team leader experienced with agile development projects. A web designer to provide an extraordinary user interface with well-in difference devices.

### Discuss Agile in the project:

Agile stands for similar methodologies that adapt to adaptability, iterative development, user involvement, and simplicity. Agile is an appropriate approach for the project due to requirements. For example, the project's requirements are developed quickly, and the technology is simple enough. I see it nearly the same as a website that can be used on different devices. The Agile framework will be used for the project. Due to its advantages, such as fast development, would be the DSDM Framework(Dynamic Systems Development Methodology). For example, the DSDM framework emphasises quick, interactive development, which boots for more rapid delivery of functional software. Another benefit of the DSDM framework is user involvement. To illustrate, throughout the development process, users play a severe role in the success of the software by giving comments and feedback right away after a function is developed. It provides a complete product that will match the customer's prediction compared to another framework. Furthermore, the DSDM framework offers an advantage in communicating with the DSDM framework. It encourages non-formal communication, such as face-to-face discussions of the product and function; the user interface is better than communicating indirectly through the screen. In addition, based on the properties of Agile, the framework is inherently flexible and adaptable in many software development contexts. Despite the advantages, the DSDM framework also has some crucial discomforts, such as the process of an Agile project requiring good communication between many stakeholders and developing a team. The final product will depend on how stakeholders react to the functions. The project depends much on the role of the stakeholders, which is one of the most significant advantages of Agile but also a crucial disadvantage. For example, if the project is cared for by stakeholders and communication between stakeholders and develop team is good enough, the project has a much more significant chance to be successful due to the importance of the stakeholders; otherwise, if the stakeholder and end-user are not much care about the project and being superficial to the project which could lead to bad communicate and decrease less success change of the project also make the end product is far difference from the first idea of the stakeholders. In addition, the DSDM framework is the best with SCRUM methodologies. For example, SCRUM methodologies and the DSDM framework have similar interactions. Both of them also provide flexibility and adaption. DSM provides a realistic, practical way to implement SCRUM methodologies. In addition, both DSDM and Scrum methodologies support each other; for example, DSDM includes engineering work, such as determining the requirements and investigating. Otherwise, SCRUM methodologies have a significant effect on development. In conclusion, the project will adapt to the DSDM framework, agile approach, and Scrum methodologies due to the properties that suit the project best. While minimal, the Risks and disadvantages.

### Advantages and disadvantages of the project:

In summary, the project creates a website-based e-commercial to sell green products and expand the market within three months. The project has four main advantages: agile methodology, flexibility and adaptation, faster time to market, and mitigation risk. Using agile combined with scrum allows the development of a fast and final product to meet the client's criteria. Marketplaces are uncertain with agile, which makes the project flexible and adaptable, able to change as well as the client, making the project changeable even while developing. Applying the scrum methodology to break down the function makes development faster and allows green groceries to be made public on the website faster than the traditional method; agile focuses on early and continued delivery, which reduces the risk of unwanted functions or developing wrong functions.

On the other hand, projects also have disadvantages, such as requiring high communication between the outsource and the company. For example, agile requires continuous feedback to achieve the most outstanding performance, and poor communication could lead to the failure of a project or the final product failing to meet requirements. Furthermore, the project is highly dependent on our source, which makes Green Grocery vulnerable to delay and shortcomings. Another disadvantage of the project is budget management. For example, because of the flexibility of the project, it is possible to go over the growth budget quickly, causing changes in requirements during development time.

### DSDM Role:

In the project, there are many stakeholders, including the mother company and our source team. Stakeholders of the mother company are the CEO and Founder, who have a vision for marketplaces and are primary decision-makers. Financial controllers who are interested in the project also aim to participate actively in meetings. Operation manager with experience in agile projects and is responsible for logistics and other fields. A chief accountant, who represents the financial controller in meetings, also makes decisions on their behalf. A logistic manager who is willing to empower the representative logistics team and make decisions on their behalf. Lastly, the marketing manager who engaged in the project also has a certificate as a workshop facilitator and agile project manager. On the other hand, stakeholders who participate

in the project are a skilled programmer, an excellent web developer, Anita, who possesses strong development skills and good manners; Cheryl, who has experience as a team leader in a single development project and who has a good understanding of web development and testing.

DSDM Framework requires many roles and involvement in the development project. We will apply the role for each person. For the CEO, the Founder will be used for the project as a business visionary and project manager; the Chief account will apply as a business sponsor; the Operations Manager will apply as a Technical Coordinator. The financial controller will be applied as a business ambassador, and the business advisor, as well as the marketing manager, will be applied as a workshop facilitator. Logistic Manager will apply as DSDM Coach. In our team, Millie, who is a skilled programmer with great communication skills, will take the role of business analyst. Peter will take the role of solution developer because the role is less interactive with the customers. Anita will take the role of a Technical advisor due to her volunteer attitude. Cheryl will take part as a team leader because of her previous experience. Pat will take the role of solution tester because he has a good understanding of web tests.

### In summarize:

Green Groceries, a reputable company focusing on organic and locally sourced groceries, aims to expand by launching an online platform within three months. They outsource the project to System Concepts, opting for Agile methodologies like SCRUM and the DSDM framework. Agile's adaptability and iterative approach align with Green Groceries' needs. However, challenges such as stakeholder communication and outsourcing dependency are acknowledged. Stakeholders include the CEO, financial controller, operations manager, and marketing manager, along with outsourced team members. Effective communication and role allocation are crucial for project success.

# Section B – High-level requirements analysis and MoSCoW prioritisation

## Table of Requirements that the Customer gave

The table give the requirement in user story which allocate the functions and non-functions for that might require in the website.

|  |  |
| --- | --- |
| **ID** | **Requirements** |
| **1** | As an Order Handling Clerk, I want to use the website to process telephone purchases, replacing the paper-based system. |
| **2** | Maintain at least 20 office plants as part of the company's commitment to a green and healthy workspace. |
| **3** | As a customer, I want to be able to change my account details to ensure that my most up-to-date information is recorded. |
| **4** | Organise a virtual celebration for the CEO's birthday on the website to showcase the company's fun and friendly culture. |
| **5** | As the managing director, I want to ensure that the site is safe under the Data Protection Act so we do not get fined hundreds of thousands of pounds. |
| **6** | As a customer, register an account. |
| **7** | As a Customer, I want a choice of delivery slots to arrange my diary appropriately. |
| **8** | As a customer, I want to be able to modify my shopping cart so that I can change my mind about what I want to buy. |
| **9** | The company should adopt pet-friendly policies to create a positive and inclusive work environment. |
| **10** | The system must be designed to handle a 30% increase in traffic during peak periods without degradation in performance. |
| **11** | As a customer, I want to enter separate delivery and invoice addresses to receive bags when staying at a friend’s house. |
| **12** | As a Customer, I want to change my account details so that my most up-to-date information is recorded. |
| **13** | As an Order Handling Clerk, I want to use the Website to process telephone purchases and stop using the paper-based system. |
| **14** | As a customer, I want to choose whether or not I am sent marketing information to avoid receiving excessive junk mail. |
| **15** | All user data, including personal information and payment details, must be encrypted to ensure the highest level of security. |
| **16** | Maintain consistent branding elements and design across the website to reinforce their brand identity. |
| **17** | The development team should participate in a quarterly team-building event to foster collaboration and a positive work environment. |
| **18** | As the Marketing Director, I would like an offer or discount page to inform our customers of those above. |
| **19** | As the Chief Accountant, I want the Website to adhere to legislation regarding VAT so we are not hit with a hefty fine. |
| **20** | As the Operations Director, I want to accept all forms of payment to capture the most significant market possible. |

## High-level requirement Standard:

After the high-level requirement is filled, we will analyse the requirement, define which is a high-level requirement, truncate the requirement unrelated to the website, and compare it against the standard of high-level requirement.

According to (xebrio, n.d.) high-level requirements have clear clear aims expect good outcome, and in general functions not being specific by providing a requirement that providing answer of what not a how question. It also provides a reasonable feature and a real-life situation that needs to be solved using the end-user system. For the most high-level requirement, one must provide a suitable context request and have a reasonable reason.

## Table of High-level requirement (requirement selectect)

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Requirement | FR/  N-FR | Reason |
| Re-2 | I want to use the website to process telephone purchases, replacing the paper- based system. | FR | It is a critical feature that helps to store and manage the system more efficiently. The phone base also provides better trust in the users than just text. |
| Re-3 | As the Operations Director, I want to accept all forms of payment to capture the most significant market possible. | FR | Many payments mean a lot of work must be done to archive all the payments. It requires far more time and might not be possible, and the practical could be higher. We need to identify 80% used mainly by a large amount of people, 20% of  Per cent of existing pay gate |
| Re-4 | As a customer, I want to be able to change my account details to ensure that my most up-to-date information is recorded. | FR | It is an essential requirement due to  Relate to personal information, which is essential to the system and could lead to the system's failure due to wrong delivery, management failure and effect on third- party company services such as delivery company. |
| Re-6 | As the Managing Director, I want to ensure the site is Data Protection Act- safe so we do not get fined hundreds. Of thousands of pounds. | NFR | It is a vital attribute of the Systems relate to Legal of the  a website without correct Security could lead to much trouble with  Legal and Risk for company information. It is also a must-have aspect.  Of software development. |
| Re-7 | As a customer, register an account. | FR | Registration plays a crucial role in security.  The authority of the user allows the website to be created.  To decide which feature belongs to a specific end user: for example, customer and admin  By authority users, it also provides information. About the customer which is needed for delivery And further service. |
| Re-9 | As a customer, I want to be able to modify my shopping cart so that I can change my mind about what I want to buy. | FR | This feature allows customers to Confident to push anything they like To a place that they know they have  Rights to do anything with it. It provides Comfort experience website. Although the  The website can perform smoothly, but this feature needs to be added.  is one of the basic features of an online e-commerce platform  The project could fail if this feature is missing due to The advantages of it. |
| Re-10 | The company should adopt pet-friendly policies to create a positive and inclusive work environment. | NFR | As the same number, it is not a specific feature. Or attribute that could be delivery  It depends on the mother company. And employ contract there nothing. to do about it |
| Re-11 | The system must be designed to handle a 30% increase in traffic during peak periods without degradation in  performance. | NFR | Many people think that it is not.  too crucial of speed for loading a website  Many sources tell us that 1 in 4 customers will leave. If a website loads more than 3 seconds. Which  This means that the customer needs to be patient while waiting.  Websites to load are primarily commercial websites. Which leads to the loss of many customers. furthermore it  Decrease point in the Google search system, which means  It is less likely that the website will appear on the first page.  Of Google search engine, which might lead to a fail To reach customers. However, if the website has good speed and incredible bandwidth, it might be easy to handle in peak periods. |
| Re-12 | As a customer, I want to enter separate delivery and invoice addresses to receive bags when staying at a friend’s house. | FR | It does not involve crucial benefits. Most end-users will take the deliver At home. Or they just pay-forward If they don't have time to get it. They could also contact the delivery service to discuss the situation by changing the delivery address, which could lead to delivery failure or loss of packing.  However, the feature seems valid for customers staying in different places. Giving them a chance to exchange the location could provide a good impression on the website; for example, it gives crucial convenience, mostly websites that don't offer it. But it provides a horrible experience for third parties, mainly. |
| Re-13 | As a Customer, I want to change my account details so that my most up-to- date information is recorded. | FR | Same RE-4 |
| Re-14 | As an Order Handling Clerk, I want to use the Web site to process telephone purchases.  So that I can stop using the paper-based system. | FR | Same No.2 |
| No.15 | As a customer, I want to choose whether or not I am sent marketing information to avoid receiving excessive junk mail. | FR | For this, they could modify.  With their email, I believe there is a filter. That provides to hide the junk email.  This is a minor feature. It not provide  There are many advantages to user experience. Besides that, the feature could give users an impression by providing users with the right to authenticate and decide whether to receive notifications. |
| Re-16 | All user data, including personal information and payment details, must be encrypted to ensure the highest level of security. | NFR | This feature must be an archive.  By providing protective end-user information It gives users a more comfortable experience. The website. It is also crucial for legal.  Most of the country now requires protection.  For personal information. If the function is not archive The website could fail or, worse, be acceptable.  Thousand of dollars by the government. |
| Re-17 | Maintain consistent branding elements and design across the website to reinforce their brand identity. | NFR | Although this attribute is not crucial  in developing an online platform commercial And not provide advanced user experiments. But it is crucial for business purposes.  Establishing trust and loyalty through consistent branding is paramount for success in today's competitive landscape. When customers encounter familiar design elements across your website, it fosters confidence and security in your brand, leading to long-term loyalty and advocacy. |
| Re-19 | As the Marketing Director, I would like an offer or discount page to inform our customers of those above. | FR | A discount page that could take the intended of the customer by giving discount could be  Give crucial advantages for marketing promotion. |
| Re-20 | As the Chief Accountant, I want the Website to adhere to legislation regarding VAT so we are not hit with a hefty fine. | NFR | It's critical to ensure our website. adheres to VAT legislation to Prevent legal ramifications and Potential system failures.  Non-compliance could result in significant fines and legal troubles With the government.  By diligently following VAT regulations, accurately calculating and displaying VAT where required, and collaborating closely with  Legal experts, we mitigate the risk. Of fines and safeguarding the integrity of our financial systems |

## Requirement that not selected

|  |  |  |
| --- | --- | --- |
| ID | Requirement | Reason |
| No.1 | Employees would like to have a healthy workspace and 20 office plants | it is not a feature or anything The system is not deliverable. |
| No.10 | The company should adopt pet-friendly policies to create a positive and inclusive work environment. | As the same number, it is not a specific feature. Or attribute that could be delivery  It depends on the mother company.  And employ contract there nothing. to do about it |
| No.18 | The development team should participate in a quarterly team-building event to foster collaboration and a positive work environment. | For reasons such as No1, it does not take advantage of the website.  Or take a role in user experience, not improve anything related to policy.  And employ contract. It does not even relate to software. |
| No.8 | As a Customer, I want a choice of delivery slots to arrange my diary appropriately. | The reason for implementing the project Which is an online platform for expanded  Root customers and reach the further side of the market. This means this could be global or an entire country.  It also depends on the third-party service, which is the delivery.  Singly the system cannot handle the arrange with Correctly, it could lead to slower delivery to arrange Or fail to deliver. |
| No.5 | Organise a virtual celebration for the CEO's birthday on the website to showcase the company's fun and friendly culture. | It is not a vital feature due to  With a lack of improvement related to online e- commercial platforms, the system can still perform without this feature. Unless this requirement is modified and has some critical role or gives advantages for end- users, it will not be a good idea to develop. |

## Moscow priority table:

I’ve applied the 60:20:20 rules of MoSCoW(techtarget, n.d.) In the project of green groceries 60% of effort will be use for core concept functions. Other 20% will spent on could and shoud have is the same.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Id | Requirement | Moscow priority | Effort | Reason |
| Re-2 | I want to use the website to process telephone purchases, replacing the paper- based system. | should have | 70 | The reason to choose this function is it great for speeding the process of business give advantages in faster process which mean end-user get the product faster  This requirement is should due to this is important requirement and the end product would be not fully develop without this function |
| Re-3 | As the Operations Director, I want to  accept all forms of payment to capture the most significant market possible. | could have | 28 | This coud have but it might just fine with common kind of payment such as paypal, master card, …. For the other less common could be consider but not require  This requirement is could have due to this one is easy to left out during development due to less impact and require much performance |
| Re-4 | As a customer, I want to be able to change my account details to ensure that my most up-to-date information is recorded. | Must have | 486 | This must have due to update the of the detail of user private. Which are important in processing the process of delivery and clarify the data.  This requirement must have due to core concept of the website it require a up to date data and correct to procedure perfectly. The system will run on error if the system do not have this function |
| Re-6 | As the Managing Director, I want to ensure the site is Data Protection Act-safe so we do not get fined hundreds.  Of thousands of pounds. | Must have | 486 | This requirement must be follow due to the require of law which must be compile before public the website also help user to feel that they are safe when using the website.  This requirement must have due to it is core concept of the website the website couldn’t able to process smoothly without this function |
| Re-7 | As a customer, register an account. | Should have | 45 | This should be have cause it might not nesecary for for register a account or even authorite the end-user it could be replace with fill the form and accept the purchase before or using phone to commitment.  Thís requirement is should have due to requirement to the website could be consider to not to have but it needed to be in the system to make the system process smothy and faster procedure of purchase for end-user. |
| Re-9 | As a customer, I want to be able to modify my shopping cart so that I can change my  mind about what I want to buy. | Must have | 466 | This might be consider as should have but in the matter of fact that it is crusial for a e-commercial web to not to have cart. Which give disappoint for the end-user might loss a lot of potential customer.  This requirement is must have due to concept of the e-commerial it is painful to not to have and the website might not be use due to huge discomfort it gave to end-user |
| Re-11 | The system must be designed to handle a 30% increase in traffic during peak periods without degradation in performance. | should have | 37 | this requirement give advantages in web experience. During peak period it could be lead to overwhelm the data that system could process lead to error and shut down, but it not must have due to mostly bandwidth the provide by third party service are capable of handling this kind of problem  this requirement is should have due to the needed for extra bandwidth in the high access period of time during the day. But the website still working properly without this requirement for example the bandwithd might not be full even in peak time. |
| Re-12 | As a customer, I want to enter separate delivery and invoice addresses to receive bags when staying at a friend’s house. | could have | 26 | This could be consider to develop but it fully require for the system this give small advantages in user experience. But it could lead to some kind of problem with delivery service such as wrong delivery or fail delivery.  This requirement is could have due to possible to have in the system but it is not require for the website to procedure. |
| No.15 | As a customer, I want to choose whether or not I am sent marketing information to avoid receiving excessive junk mail. | could have, | 28 | This could have in the system provide advanatges in user experience but it a after use the website. It could give a little of impressive of end-uesr to the website.  This requirement is could have because of the system is not require this feature to run properly and smoothly. It not a core function but not also hurt to not to have. Just a extra convenient for end-user |
| Re-16 | All user data, including personal information and payment details, must be encrypted to ensure the highest level of  security. | Should have | 55 | This should have in the website due to personal information are vulnerable to attacker, this is reasonable requirement due to protection of end-user also this relate to some kind of legally.  This requirement is should have because of it is paintful to not to have the user but it is require highest which is might not possible with the time of develop, it would be rather stick with high security encryte algorthims. |
| Re-17 | Maintain consistent branding elements and design across the website to reinforce their brand identity. | Should have | 45 | This should have in the website not cause it give advantages in technical or require a function but it require in the business marketing field. Due to brand element it increase user trust and loyalty.  This requirement are should have due to business requirement and marketing department it also put low performe but give quite extra result. |
| Re-19 | As the Marketing Director, I would like an offer or discount page to inform our customers of those above. | could have | 28 | This require a huge advantages for the user and marketing field as well by promoting discount. It promote end-user to purchase the products.  This requirement is could have due to requirement of the e-commericla to encourage consumers.  This requirement is could have due to the system able to process smothy without this requirement but it is great to have but not really require in the web. |

## Calculate development times:

The developed team has five people: each works 8 hours a day, five days a week and four weeks a month. The development times are three months, except for managing risk and giving other actions more time, such as meetings. The DSDM framework requires many meetings, so giving some time to the agenda would be clever. Give it about three weeks. So it would take 1800 hours to complete the product.

|  |  |  |  |
| --- | --- | --- | --- |
| Requirement ID | Effort (hours) | Total effort (hours) | Scale(%) |
| Re-4 (must have) | 343 | 1009 | 56% |
| Re-6 (must have) | 343 |
| Re-9 (must have) | 323 |
| Re-2 (should have) | 117 | 493 | 27.5% |
| Re-7 (should have) | 92 |
| Re-11 (should have) | 90 |
| Re-16 (should have) | 102 |
| Re-17 (should have) | 92 |
| Re-3 (could have) | 75 | 298 | 16.5% |
| Re-12 (could have) | 73 |
| Re-15 (could have) | 75 |
| Re-19 (could have) | 75 |
| Total | 1800 ( 9 weeks) | | |

## Assign requirements to the agenda in the sprint method.

The project will be plan on time box. Which table under will the development team have 5 people which mean each week they able to provide 200 hours of working. Base on that and each effort must give each requirement the time box is planned on reasonable time scale.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Sprint 1 | | | Sprint 2 | | Sprint 3 | | Sprint 4 | | Sprint 5 | | |
| 200 man.hours/week | Requirement | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week11 | Week 12 |
| Must have | Re-4 | 200 | 143 | done |  |  |  |  |  |  |  |  |  |
| Re-6 |  | 57 | 200 | 86 | done |  |  |  |  |  |  |  |
| Re-9 |  |  |  | 114 | 200 | 9 | Done |  |  |  |  |  |
| Should have | Re-2 |  |  |  |  |  | 117 | Done |  |  |  |  |  |
| Re-7 |  |  |  |  |  | 74 | 18 | Done |  |  |  |  |
| Re-11 |  |  |  |  |  |  | 90 | Done |  |  |  |  |
| Re-16 |  |  |  |  |  |  | 92 | 10 | done |  |  |  |
| Re-17 |  |  |  |  |  |  |  | 92 | Done |  |  |  |
| Could have | Re-3 |  |  |  |  |  |  |  | 75 | Done |  |  |  |
| Re-12 |  |  |  |  |  |  |  | 23 | 50 | Done |  |  |
| Re-15 |  |  |  |  |  |  |  |  | 75 | Done |  |  |
| Re-19 |  |  |  |  |  |  |  |  | 75 | Done |  |  |

## Summarize

in the section it begins with a table outlining the customer's requirements, followed by a discussion on high-level requirement standards. Another table categorizes function requirements by importance, while a separate summary table outlines key high-level requirements. Prioritization is done through the MoSCoW method, classifying requirements as Must have, Should have, Could have, or Won't have. Development times are then calculated to estimate task durations. Lastly, requirements are assigned to sprint agendas.

# Section C – Legal, Social, Ethical and Professional issues

## Data controller

### Discuss about data protection(DPA- data protection act):

The Data Protection Act (DPA) is a UK law that protects people's personal information from unwanted collection by collectors. It ensures data privacy, allowing individuals to control their information's actions, control its processing, and maintain accuracy. Data privacy also includes fair and lawful processing, limited purpose, and high-quality security. Individuals have rights to access, correct, or erase their personal information, ensuring their rights are protected and upheld.for example, For example, they have the right not to allow collectors to collect personal information. Data privacy also includes fair and lawful processing, which I was an example of. Limited purpose, for example: By allowing data collection, the data must be used only for specific purposes such as annual reporting. Accuracy is also a part of data privacy, meaning all data must be accurate and up-to-date. For example, giving an old medical condition could lead to false medicine, and providing up-to-date information could prevent any harm or loss in the future. For example, when an end-user allows collectors to collect their information, the collector must give high-quality security to the collected information. Lastly, there are Rights to data subjects; for example, individuals have rights to access, correct the information or erase it (gov.uk, 2018)

### What is a data controller:

A data controller is a person who takes responsibility for data protection within an organisation or company. The role of the data controller is to ensure the data process is pretty and lawful. For example, Green Grocery's data controller must provide a security database to store user data. Before gathering the information, they must announce that data is being collected for specific purposes. It also allows users to access, edit, and delete user information.

### Role of data controller in green groceries

Green groceries depend on data controllers to ensure data privacy. Controllers must let users accept or reject data collection, store it securely, and use it only for explained purposes.  
  
User data, including personal info, is collected during registration, terms acceptance, and delivery. It's stored securely with complex algorithms. To remove the source database, a third-party service is needed to protect the data.  
  
Data processing adheres to DPIA principles, utilizing minimal data for specific purposes and securing sensitive information. Third-party services, such as Delivery, ensure safe transfers of store and user location data. Trusted third-party services with extensive experience and high-security measures handle user data protection.

## Legal, Social, Ethical, Processional

### Legal:

* **Data privacy:**

Green groceries must follow data protection laws such as CCPA and DPA 2018 in all data processes, ensuring user privacy and legal compliance.. For example, Green Groceries must inform end-users before collecting their information, provide a safe place to store the data from any leaking information and attack while processing critical information such as payment accounts must be protected with encoding and before transferring data, the data must have some way to prevent the attack and make sure the company, organisation that get the data must commit data protection as well.

* **Intellectual property(copy rights):**

The Copyrights help people from being thieves. Ideas and intellectual property,… such as the names of products, brands, inventions, and designs.… for example, in groceries, the website will not take any ideas or information, copy the design, invention or any coping idea. All the information that is pushed to the website must go over the filter about the copy. Right now, the manager will ensure the unique properties of a product before publishing it on the marketplace.

* **Security awareness:**

On our website, to increase security awareness, we only allow users to create strong passwords. For example, the input field only accepts the password, which is complicated. Except for bird date, and name, it must include at least one uppercase word, 1 number and one unique character at least long in 8 characters

* **Transparent and trust:**

In green groceries, all the information is trustworthy able for example, all the ingredient to make the product all expose on the website, and the product only uses the ingredients that are told on the website to create it.

### Ethical issues:

* **Ethical standard:**

Green Groceries must commit to fully implementing ethical standards. It is not clever to ignore ethical problems due to social issues; following ethical standards gives the advantage of accepting many people. Ethical standards help a product not be offensive to a single person. In many situations, for example, Ethical standards provide societal acceptance and sympathy.

In other words, an example of an unethical company would be giving critical personal information such as credit card numbers to an untrustable third-party service, which could lead to the loss of property of the end-user.

* **Protect Data and Fairness:**

Green Groceries will ensure customer data protection. The website will not allow sensitive information to be shown to third parties. The website also provides a protected database to store the information in a hash to ensure that no harm is caused to the end user, even if it leaks out. Furthermore not only protect the information of end-user we also protect the information of businesses, such as reports and plans,… for example, the leak of information about a business, such as annual reports, sales reports, and plans, will provide many people who have information to take advantages on the market such as stock market, by providing high technology protection in data it will ensure the fairness and safety of not only the company but also any person take involve in the company such as third party and end-user. In addition, we will ensure the fairyness within users. By providing a commits that all the user accounts are the same. The discount that the website offers for each customer is the same as each other.

### Social issues:

**Impact on all citizens:**

Green groceries have an excellent impact. For example, the website provides a green consumer product service to end-users so they can access green products. It would benefit end-user health and also partly support the farmer.

**Accessibility:**

The website is also able to be accessed on many devices. For example, the website is responsible for Windows or mobile phones; the size can be used on any device.

**Technical in the education of consumers:**

For technical education, our client will use the website to take part in the role of admin; for end-users who are regulated users, we will guide them by designing font-end and provide a place that answers common questions.

**Webapp:**

The web app will take user information if only when they are aware of it,. We provide terms and policies in the registration so that users can read them. We will say all the information that relates to the user, including announcing that we are collecting their information by accepting the terms and policies they allow us to collect.

**Secutiry aweness:**

In our website the user when registration an accout they cannot use simple password intead they could use complicate password in order to registration a account

### Profesional:

* **Compliment with standards and regulations:**

At Green Grocery, we commit to holding the highest standards for our website. The website will be implemented with the highest quality in the required amount of time. The development process always follows the rules of web development, such as W3C.

* **Test for QA:**

In Green Groceries, quality assurance is a commitment to an excellent website; our team will test and quality all aspects of the website, including user interface, database, protection, user experiences, and many more factors related to quality. we will maintain a significant amount of performance on the web.

* **Security and Data protection:**

Green groceries will complement the fact that users' data will always be protected. We ensure protection by high technology and hash encrypting the information. The data of the user, when even being leaked out that information, will be useless because the data is hashed in Bcryte, which cannot be decrypted. The database is being used as a third service. Still, the data stored in a database will always be encrypted to take care of user information for most sensitive information.

* **BSC code of conduct:**

BSc code (British Computer Society code): In the IT field, the BSC code is considered an ethical professional code for professionals, adapted to every member of the British Computer Society.

For example, in groceries, we make sure the It team and whoever relates to the IT field maintain BCS code while working. For example, the first thing in the BCS code is to make IT available to everyone(public interest). Our website is for the benefit of our company and also provides the customer with a place to access green products which are suitable for their health. Furthermore more, the second code of bcs is duty to relevant authority in our company the it team will not use their position as advantages to clients they will work as responsibility to their professional. BCS code of conduct also relates to other members of it team to each other such as helping other when they are get intro trouble that they cannot handling which is duty to the profesion, lastly the code state that individuals person who are professional in coding must keep their knowledge up to day and expertise as well.

BCS's code of conduct has four general aspects to follow: public interest, duty to the relevant authority, duty to the profession, professional competence, and integrity. Public interest, which means in a professional capacity, it needs to do the job with studies diligently, follow the relevant regulations, and consider the interests of system users. For example, green groceries it is considered a public interest because they give end-users the ability to access green products that are good for their health. The second aspect of the BCS code of conduct is a duty to the relevant authorities. It is required to clear out the situation that could lead to result in a conflict of interest between stakeholders for most coders and relevant authorities. When a conflict arises, it is required to maintain truth and transparency about the product. For example, in Green Groceries, if there is a conflict between our development team and the mother company, the development team will maintain transparent. The team will report to the department responsible for solving conflict peacefully. Thirdly, bcs adapt duty to the professional. Uphold BCS and professional standards contribute to their improvement. Act with integrity in dealings with BCS members and other professionals. Consider how your statements affect others and speak only when qualified and authorized. Notify BCS of any criminal convictions, bankruptcy, or disqualification as a director. For example, in Green Grocery, each person who is on the development team maintains professional standards and improves them while in contact with other members, maintains integrity in relation, and considers the consequences of self-action to other team members. Lastly, professional competence and integrity mean a person must be honest with their professionals, not take responsibility that is out of their hands, always keep improving their professional skills, and extend their field of knowledge. For example, develop a team of green groceries, always learning and improving the knowledge about the technology they are using, and keeping a professional standard while developing the website.

## Conclution

In conclusion, this project emphasizes the importance of Agile methodologies, particularly Dynamic Systems Development Method (DSDM), in meeting customer requirements efficiently. Through rigorous requirements analysis and MoSCoW prioritization, the project ensures alignment with customer needs while adhering to legal, social, ethical, and professional standards.

The role of the data controller, governed by regulations such as the Data Protection Act (DPA), is crucial in safeguarding customer data integrity, especially in a context like Green Groceries. By addressing legal, social, ethical, and professional considerations, the project aims to deliver value while upholding integrity and responsibility.

In summary, the project's adoption of Agile principles, coupled with a thorough understanding of legal and ethical frameworks, positions it to succeed in meeting customer expectations while contributing positively to society.

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