

Development Frameworks and Methods

Course: COMP1648

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Contents

Introduction	3
Section-A: Management Summary.....	3
A.1: Justifying of DSDM Atern as the proper solution:	3
A.2: Advantage of DSDM Atern:	6
A.3: Disadvantage of DSDM Atern:.....	7
Section-B: Resolution of High Level Requirement and MoSCoW Prioritization.....	7
B.1: Review of “high level requirement”	7
B.1.1: Inappropriate High Level requirements	7
B.1.2: High level requirements.....	9
B.2 MoSCoW Prioritization.....	11
B.2.1 prioritizing high level requirement list by using MoSCow prioritization	11
B.2.2 Reason and justifications of prioritization high level requirements	13
Section C- Discussion of Legal, Social, Ethical and Professional Issues:	15
C1 Management Summary on Data Controller	15
C1 a) the role of the data controller within the organization	15
C 2 Purpose of BCS code of conduct	19
Conclusion:	20
References.....	21

Introduction

Jules Mayweather is a person who is always concern about her fitness and healthy life. When she switched the job and started to take care of her baby, she realized that the food is marketed for children do not meet exacting standard. It contains high quantity of sugar and salt. So she started to make food in house for her child and gradually commenced marketing the food to her friends. In this consequence, she registered her going well business named “Nutraly” and grabbed the market in a short time. At a time, it gathers a huge scope in the market and she decided to develop the business in a new IT based system to meet the customers’ needs properly.

Section-A: Management Summary

A.1: Justifying of DSDM Atern as the proper solution:

- ❖ Jules the owner of Nutraly Company thought that the company need some more step that would help to perfectly portioned and customizable home deliveries for babies’ food which will be a systematic business manner. She expected to centralize all the discrete in a base line of principal procedure. She wanted to fix a system that would be helpful to the consumers by providing such beneficiaries that browsing, selecting and purchasing toddler’s food for one week.

DSDM support this dynamic idea to figure out the business expectation at a suitable way and correct time. So, DSDM will be the best way to solve this business approach which will help to understand the business priority, establishing a valid business case and categorizing the business need into MoSCoW prioritization.

- ❖ As Jules wanted planning to run the new system will be within 4 months, she assigned a seasoned analyst at system works named Steven Payne. Steven Payne aspires to conduct a workshop to pin down high level requirement for the new system where will partake the representatives who will be selected by Jules from various department. Steven Payne desired such presence due to place new system as soon as possible. DSDM Atern is able to perform the business amalgamation that Jules explained.

DSDM has the ability to develop the project under a specific time frame and make satisfied the business requirement by analyzing the high level requirements. DSDM is capable to fix time boxes with invariable review point that will establish the delivery time and won't give a space equivocality.

- ❖ From the beginning two members of Jules Company the IT head, Max Powers and the CFO, Cathy McGraw behave strongly antagonist for Jules' venture. Cathy tried to prove this business initiative doesn't match with their B2B business model and Max debated that the present strength of their IT system was not enough to support the second IT system. That stands completely against the policy of business purpose. So Payne should to involve the right stakeholders and foster to pro-active partaking from the business delegates.

Now DSDM is also a major key to convert her business into properly division and customizable home delivery. In the concept of DSDM it is a biggest thought to cooperate. So cooperation is a very important issue to implement the new system that Jules endeavored.

- ❖ By keeping all the other procedures Payne will develop the IT system for attaining the incremental convenience of Nutrarly. Payne will just magnify the company into IT system that consist in the whole business requirement. The IT head demanded for facilitating enough bandwidth expedience, so Steven will expand the IT sector so that the customers can choose a particular food for seven days. At this level, Payne will carry-out appropriate solution and enough design up front (EDUF) to make the foundation strong.

To maximize the building system of the company DSDM is capable because it helps to divide the business to development. So using DSDM is an appropriate option of the company.

- ❖ Jules marketing system is E-commerce based so it is very important to get feedback from the customers into each iteration. And Jules want to expand her business by facilitating weekly based delivery package where a purchaser can select his/her desirable product individually. So Payne has to use iterative development that impulse creativity and learning.

This prospect patronizes the DSDM system can fulfill the goal of Jules. In the principle of DSDM it a huge issue to communicate continuously and clearly. So at this stage Payne can make efficient the DSDM.

- ❖ The patron of NutrarlyNow got inspiration from the poor service when she switched her job and started taking care of her infant. So the new system should be created the quality by keeping constant review and design and document properly and applying MoSCoW prioritization method to derive the sorting requirement.

DSDM Atern is well known on quality of this requirement that never compromise with quality. That will ensure quality doesn't vary besides supporting the early testing, test continuously and test on the appropriate level.

- ❖ In the behind of any success there are lied a proper communication. It may be in different ways like verbally, written, visually, formally, informally etc. A project can go down only for the poor communication. In Nutrarly, a strong communication is must to formulate in IT based system though having negative sense somebody about the change.

DSDM indicates to informal and face to face communication, organizing workshops with respective parties, reserving documentation timely, taking action into the need of customers, modeling and prototyping and honesty and transparency in all the level of communication to perform the existing system into a web based system.

A.2: Advantage of DSDM Atern:

- One of the best advantage of DSDM is developing a solution. A little change that emerged from feedback pathway could be a strong solution that would be conducive to access the business need extremely and assist to business growth.
- By the development process, all the users can provide their adequate solution. Thus the involvement of the users can change the rapidly the project outcome and mark up the quality.
- When the topper management of Nutrarly took position against Jules' opinion, it was obligatory to exclude the frequent mistake and errors and kept a minimum review on the solution. That implies to the clarity to the new system.
- For using DSDM Atern software will be quicker, so customers will get service sooner rather than later.
- The consumers will be more knowledgeable about the products in exchange for DSDM Atern (tryqa, 2019).
- It takes less time to purchase and able to provide immediate feedback. Sometimes the buyers are not free to waste more time to choose, at this scenario it will be helpful.

A.3: Disadvantage of DSDM Atern:

- DSDM demands more time and energy from everyone because developers and customers must constantly interact with each other.
- Documentation inclines to lay aside another pathway, which makes it harder for new members to get up to speed (pcdreams, 2019).
- Project can be long lasting hence there is absent any distinct destination that duration the project will be stop.
- The developers can't be able to work in a different project because it is not explicit when the running project will be abolished (Vicarage, 2019).
- It might be harder to identify the progress because the progress befalls with several cycles.

Section-B: Resolution of High Level Requirement and MoSCoW Prioritization

In this discussion section there are two major parts. Firstly we will know about the “High Level Requirement”. And in the second part we have a look into what is MoSCoW prioritization of “High Level Requirement”.

B.1: Review of “high level requirement”

In this part of the assignment we will have a look at the inappropriate high level requirements and find out the actual directed high level requirements.

B.1.1: Inappropriate High Level requirements

The site should be easily usable and quick loading:

In this case of the system will be specific, the system needs to be user-friendly and easy to run. But the ability of users and the strength web are not surely functional requirement. For that it is an inappropriate high level requirement.

Establishing mobile app and chatting with other clients:

This is the demand of establishing mobile app and creating capability with other clients resembles to how they can communicate with others that is a non-functional requirements. As a result it is inappropriate requirement.

The look and feel of the website should resemble the healthy lifestyle we are selling:

It means the interface of the site will look and feels to be decorated for the better out looking of the system. It is absolutely a non-functional requirement that's why is an inappropriate high level requirement.

Calculating nutritional value and overhead preparation:

A system will be able to measure the nutritional value of foods and have to buy at least 5 days foods to know the overhead preparation is typically non-functional requirements. As is an extra requirements so it is inappropriate high level requirement.

Waiving from buying too much food and overfeeding children:

Customer can buy food as their wish. It is depends on their willingness and an interpersonal matter. He/she can purchase food for others. So due to being non-functional requirement it is an inappropriate requirement.

B.1.2: High level requirements

Login and Registration:

NutrarlyNow has a wide scope for the clients who are enthusiastic to involve with the team. There are two steps to open a unique ID like registration with e-mail ID and login activities must be used to ensure enjoying the system and admin's tracking.

Searching and Browsing:

Searching and browsing features help to the users to choose product and browse various range of products. For searching and browsing, user login is required but not registration. It helps to web traffic that's why it's a high level requirement.

Receiving orders from customer online:

This requirement specifies that customers will be able to buy products online. This is important to maintain and fulfilling an E-Commerce business system, hence it is considered as appropriate high level requirement.

Checking out shopping basket and saving option:

This menu of the system will make the system more useable as it goes to functional requirement by being sure the basket checking and saving the chosen items that indicates to no repetition of buying foods. So it goes to appropriate high level requirement.

Creating selection and payment option:

The customers will buy foods in an E-commerce system, so in the system there need to selection bar and paying option for selected items that reflects the actual requirements of functional requirements.

Food packaging and shipping:

This is absolutely an appropriate requirement because NutrarlyNow is a company of producing and servicing perishable food. It is quite possible to be spoiled food for poor packaging and shipping management.

Rating functionality with comments section:

This system helps to customers of judging the quality of a product. And the comment option make easy the task of developing food standard in future that why it is a high level requirement.

Able to ask, read and write reviews from customer:

As this is an online based platform, there is need to attach asking query, reading summary and writing reviews for the customers which are functional requirements. This features indicates to the optimization of the system. We can recognize it as appropriate requirement.

Adding nutritional value and Health guidelines on packaging:

The packaging system is not only used for keeping save the products but also to introduce the product features and a proper health guideline for the making easier to order and checkout customers as required. So such advertisement admittedly an appropriate requirement.

Preparing daily reports:

Keeping daily report and accountancy supervision such as preparing sales chart, cost sheets, journal, ledger, income statement, final account and return on investment (ROI) are functional requirement. A company cannot run without transparency and accountability that's why this is appropriate requirement.

Order management and facility to return product:

The system must should be responsive for managing orders, what products should shift where is very emergent to convey and giving the expedience of returning food from customers whenever customer will claim against the product and taking the claim into action to solve further facing of such harassing situation. This is a functional requirement. So it is an appropriate high level requirement.

Online group for communicating:

An online platform is need for the company because in there customers will be involve among themselves to communicate each other's and reveal their problems against foods. This group will talk about the further development of the company and will share their demands and problems. But the group will be operated and tracked by the company and in this group only the permitted customers can join.

B.2 MoSCoW Prioritization

The MoSCoW prioritization method is use to in management, business analysis, software development and project development to meet the understanding with stakeholders of each requirements. The term MoSCoW is refers to the full form of must have, should have, could have and won't have (volkerdon, 2019).

B.2.1 prioritizing high level requirement list by using MoSCow prioritization

MoSCoW prioritization is also known as the name of MoSCoW method or MoSCoW analysis, is a popular prioritization strategy for fulfilling requirements (productplan, 2019). In the word of MoSCoW, there are 4 different words, those are

Acronym of MoSCoW,

Must have

Should have

Could have

Won't have

Must Have: These refer to the minimum usable subset of requirements of delivering. Must have defines to the following,

- Can't deliver on target in absence of this.
- Can't be legal without it.
- Unsafe in absence of it.
- Unable to deliver case without it (volkerdon, 2019).

Should Have: The requirements are very useful for the system but it will not halt the process if those requirements are absent.

Could Have: In MoSCoW prioritization could have means the requirements those are important but not vital, may create disturbances but the system will go on (volkerdon, 2019).

Won't Have: The requirements which are least critical, lowest payback and those are not applicable at that time, do not consider for taking action in next timebox but later timebox (wikipedia, 2019).

Prioritization list of high level requirements:

Serial	High Level Requirement	MoSCow Prioritization
1	Searching and browsing	Must Have
2	Receiving orders from customers online	
3	Order management and facility to return product	
4	Food packaging and shipping products	
5	Creating selection and payment option	
6	Checking out shopping basket and saving option	Should Have
7	Adding nutritional value and health guideline	
8	Login and registration	
9	Preparing daily reports	
10	Rating functionality with comments section	Could Have
11	Able to ask, read and write reviews from customer	
12	Online group for communicating	Won't Have

B.2.2 Reason and justifications of prioritization high level requirements

Must Have

Searching and browsing: In an E-commerce firstly system there requires the customers to see in various sight of products without login. The customers will not be interested to the website if there is mandatory login at any time. It will create the web based platform moveable to customer users.

Receiving orders from customers online: Customer must be able to order products online of NutrarlyNow Company. Because the new company is made of facilitating customers to buy foods online. So it is in the position of having must.

Order management and facility to return product: It is so important to organize orders from customers and provide the facility of taking back foods from customer whenever they will stand logical reason to recant the products. What product need to supply in where is the major key in this part.

Food packaging and shipping products: NutrarlyNow manufactures products and then supplies to the respected customers. So it is important to packaging the foods as those are perishable and shipping carefully to the correct location for maintaining business purpose.

Creating selection and payment option: Customer will browse the website to order foods, so there is need to selecting option and payment option of purchasing the desired products. Customer must be able to select and pay for chosen item to buy.

Should Have

Login & registration: At the newly NutrarlyNow Company, login and registration should have been only the non-urgent criteria and without it customer will be able to choose and placing orders foods and also can pay for products. To perform such activities the buyers don't not necessarily face for that login and registration belongs to Should Have criteria.

Checking out shopping basket and saving option: This item of NutrarlyNow has kept in 'should have' requirement because at the time of choosing and ordering product the customer can feel the need of going back to the basket have a look and saving the most pleased foods.

Adding nutritional value and health guideline: On the body of foods adding nutritional value and health guide line may create an extra advantage. It can increase the business strategy to achieve the oriented goal. That's why it takes room in 'should have'.

Preparing daily reports: This stated requirement is significant to NutrarlyNow Company because this will help to making decision to the decision makers and the paucity of this option won't be so harmful due to having been all the records stored in the web site. Therefore it belongs to should have.

Could Have

Rating functionality with comments section: The company can run this requirement in could have requirement after ensuring the service providing and getting proper feedback from customers. This requirement is not crucial or more effective for NutrarlyNow so it have got place in could have.

Able to ask, read and write reviews from customer: Customer will be able to throw questions, read the features of foods and also write comment on a product is kept as could have requirement in the system. Because the system does not depend on this requirement to run.

Won't Have

Online group for communicating: Creating an online group which would be used for communicating among the customers can't be a requirement of any system. Most of the time it may be the reason of facing difficulties NutrarlyNow, so this requirement takes the position in the last requirement of MoSCoW prioritization.

Section C- Discussion of Legal, Social, Ethical and Professional Issues:

C1 Management Summary on Data Controller

C1 a) the role of the data controller within the organization

Data controller

Data controller is a person or a company who is responsible for the means of processing the data of the organization or the company. The Data controller of the company needs to follow the Data Protection Act (atinternet, 2019). The data controller of the company processes the confidential data of the company and the customers of the company strictly following the rules which are imposed upon the terms of sensitive category of the personal data. The data Controller Company or organization should use the data and handle the data with consent of the company and the customers of the company. There are many criteria which needs to be followed while handling or controlling the data of the company (ictlaw, 2019). The data controller needs to avoid an injury which might be caused to the data subject causing serious damage of the property; data controller simply disposes the personal data for myriad possible reason specifically handling how much data need to be shared amongst the employee of the company. NutrarlyNow company has number of customers' data in their system which needs to be handled carefully (i-scoop, 2019). The amount of data available in the system of NutrarlyNow company is huge and any mistakes made might mislead if the data is handled by any ordinary person. The data security of the company is maintained by the data controller of the company. The data controller of the company processes the data of the company to critic the legal, professional, social and ethical issues following the Data protection act all the time.

Example 1

There are number of customers of the company who shares their personal information such as name, permanent address, contact number and other necessary details to the company so that the company may use those data for contacting with the customer and may provide better services to the customers. This information should be handled efficiently else any unauthorized access to the system might cause huge risk of data loss to the system.

Legal issue

The system which needs to be developed for the NutrarlyNow company should protect the clients information in their system so that no one can get the personal information of the company's customers or staffs. The system of the company should not save any unnecessary information to the system which might may cause problem to their valued customer in future. Else the customers of the company can file lawsuit against the company. The data controller of the company handles this information so the staffs cannot get any extra or unnecessary information from the system and cannot misuse any information.

Professional issue

The system which is being developed for the NutrarlyNow company should protect their employee and customers information securely to the system. Any unauthorized access to the system should be strictly prohibited. Unauthorized access to the system is only possible if there is any lacking in the professional knowledge during the development of the system. The data controller of the company manages the system by keeping the system secured from the tampering of data or any unlawful processing in the system by improving the technical and organizational process of the system.

Social issue

If any personal information of the customers is used in the social media by the NutrarlyNow company without the consent of their customers, the customer might be harassed in social media and there is a possibility of losing their reputation. This will lead to the customers to lose faith on the system and eventually they would suggest others to not to use the system or not to take services from the company as they would lose faith from the company. Data controller can control this situation by following the data protection act (DPA) so that the customers data can be securely stored in the system database.

Ethical issue

Modification and use of customers or employees' data without their consent is a major issue and is both illegal and unethical. The employees of the NutrarlyNow company may use the data for their personal benefit without the consent of the company or customer this would be an unethical issue for the system and needs to be monitored. The data controller of the company assures that the employee of the company should receive only the needed amount of data from the system which is required for completing their task.

Example 2

The customers of the NutrarlyNow company purchases the available product from the system of the company online. When they are purchasing any product from the system, the customers of the company need to provide their account details and card details to the system. The information provided by customers can be misused if they are not handled properly and the customers can be blackmailed or harassed in future.

Legal issue

When the customer purchases any product as they provide their personal details in the system, if the employee of the company or any other person gets those data, they can misuse the information to purchase or withdraw money. They can even blackmail the customers of the company. This is illegal to store any information from the customers about their purchasing card details. Data controller of the company can handle it by using the principles of Data Protection Act where none of this credential information is stored in the system.

Professional issue

The account or card details provided by the customers during the purchase of any product is very secret and should not be shared with anyone. While developing the system the developer needs to be concerned about the legal issues so that no one can get access or get the information of the customers account details if any one finds out this information this would be a professional issue for the system. The data controller needs to check the system so that any unlawful processing of data can be controlled and the data should be secured by modifying the system technically and increasing the security of the system.

Social issue

If the employees of the NutrarlyNow company publishes any confidential information of the customers form the system without the consent of the users to third party for their personal benefit this will be a social issue for the system. Data controller can monitor the system and use the customers' information for the specified lawful purposes only.

Ethical issue

While purchasing any product from the system if any employee manipulates with the prices of the available product without the concern of the product owner it would be unethical for the customers. The CEO or the product owner should only be able to update the price of the products so that the customers of the company cannot be charged extra for any product from the system. Data controller of the system can ensure it by not providing access to the unrightful person to the system to modify the prices by providing an adequate security

C 2 Purpose of BCS code of conduct

The purpose of BCS code of conduct is to provide a set of rules and regulation which needs to be followed by the IT industry while developing a system. SystemWorks is an external company who will develop the NutrarlyNow system for the company after analyzing the complete system. The SystemWorks Company needs to follow the British Computing Society (BCS) codes of conduct while developing the system maintaining the legal, social and ethical issues within the IT sector. BCS code of conduct helps to establish a control on how members of the company should conduct themselves within the IT industry (medium, 2019). The four sections of BCS code conduct which needs to be implied in the system while developing the system for NutrarlyNow Company by the developer of the SystemWorks.

1. Public Interest

All the developers and employees of the SystemWorks company should have regard for health, privacy, security, environment and wellbeing of others who are working. They need to have due regard for the legitimate right of the third party's system which are being used in the system. While conducting the professional activities the employees of the company should never discriminate any other on the grounds of sex, sexual orientation, marital status, nationality etc or disability or of any other condition.

2. Professional competence and integrity

Developer or employee of the SystemWorks should only undertake to do work or provide service which they are professional in. None of the employee should claim any level of competence that they do not possess. Each of the employee should ensure that they have proper knowledge about the legislation and should complete their responsibilities complying with such legislation. The employees should respect and value alternative view points and accept and offer honest criticism of work. At the same time, they should not be involved with any bribery or unethical inducement.

3. Duty to relevant authority

The employees of the company should carry out the professional responsibilities with due care and diligence in according with fulfilling the necessary requirements asked by the NutrarlyNow company. The developers or employee of the SystemWorks company needs to avoid any situation which may give rise to a conflict of interest within two companies. And need to accept the professional responsibilities for their work and never disclose or misuse any information without the consent of the company for any professional gain.

4. Duty to the profession

The developers of the SystemWorks company should accept their profession duty and seek to improve their professional standards through participation in their development and enforce the system. The employees of the company should encourage and support fellow members in their professional department and uphold the reputation and should not take any action which could bring the profession into disrepute (bcs, 2019).

Conclusion:

Nutarly Company is searching an upgrading platform that would be more aggressive to satisfy customers' need by ensuring an online based marketing system where customer can create expected basketful from anywhere. It is strongly hoped that if the developing methodology and strategy of Nutrarly if executed properly, it is quite possible to explore it into NutrarlyNow. DSDM has such ability to provide all the requirements with functional solution.

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