Course: COMP1648

Development Frameworks and Methods

Due Date: 19th April 2018

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Date of Submission: 17th April 2018

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Introduction:

The "PaintEverything (PE)" is a medium-sized company which they manufacture and sells. Currently the company has two type of business for customer. The company since in 1958 and But two years ago the newly appointed Managing Director, Peter Cook, which he claimed that the company was stagnating & needed to improve sales by adding an online store in order to sell directly to individuals. And the peter cook want to creation e-commerce wed store. The company has already IT professionals which they manage company database and sales system. The IT team are not happy for this claimed. But finally the team agreed to build the system.

Section A: Summery Of Management-

Introduction:

"PaintEverything" is a medium sized of company which has some clear objective and purpose. Dynamic systems development method (DSDM) Is the Perfect Approach for This Project and this is recommended from Head Office.   And DSDM is an agile development delivery framework. It is originally used as a software development method and first released in 1994. Giving below this reason-

(Anon., n.d.)

Justification of this project using DSDM Atern:

DSDM Is The Perfect For This Project Because It Is Medium Sized Of Project And It Is Online Based. So, the Company is Using DSDM Method for this Project. The company is following these methods. Including this:

- The "PaintEverything" project is medium sized, which the company newly appoint managing director peter cook. The managing director want change the company database and sales system. When the company will be change their database system then their project delivery will be due time. If the IT team late on the project delivery time, the company face big problem. They cannot run their company without database storing system. So, if the company follows DSDM method they can easily understand their delivery time. Because DSDM method follow on time delivery, if the IT teams to fulfill this rule then the company keep will promise and true the dealing right of way agreement working.

- The "PaintEverything" change their database storing system which their current process is manufacturing, marketing, sales and shipping system. When the company changes their database they must follow their product quality. Because when they change their system so they must follow better quality before product. If The Company follows DSDM method they can understand their product quality test system. DSDM method never compromises their quality. If the company do not maintain their product quality they loss their reputation and hamper their business. If the IT team fulfill this rule they can position the level of quality at the beginning, make sure that quality does not become a changeable, file ,plan and test correctly, Build in quality by invariable appraisal and Test early as well as always.

- The "PaintEverything" change their system so; they can follow their system design. Because when the company changes their database they can understand easily and they can develop their project without any problem. Anybody can understand easily their profile, the system like this developed. The company requested the help of an external IT consultant, sally flowers. So the sally flowers will be understand the system easily, system design follow those thing. If the project follows DSDM method the IT team developing their system delivers a firm base of data throughout possibility and IT team supporter incremental delivery. If The IT team follows this rule, they can easily design their system.

- The "PaintEverything" project changes their system for better business profit. So the IT team follows their business needs. The IT team need focused on business objective. The "PaintEverything" what want from the IT team, the team understand that thing. If they maintained business need, they are benefited otherwise they are loss their business profit. If the company follows DSDM method they can fulfill their business need and profitable .if the IT team fulfills this rule and they can focus on company main concern and Time box the work they are benefited and achieve profit.

- "PaintEverything" change their project so; they need develop iteratively. Because the managing director will be change the database system, if any IT person cannot understand their need or business objective and without understand need they can develop the system. After the managing director saw the project and it is not fulfill requirement. The IT person aging change the project system for requirement fulfilled. It is iteratively processes. First one system complete then another develop. If the IT team doesn't follow the iterative process they can loss time and money. Because the project have a budget for time and money. So, if the IT team follow DSDM method they can profitable. Because DSDM follow iterative process. If the IT team maintains these rules they can understand easily company need and iterative process system and grip modify the correct result will not come out without it, be resourceful, test, learn, develop and Build client advice into each iteration. (Anon., n.d.)

Advantage of DSDM:

Advantage of "PaintEverything" using DSDM Atren methodology. Including this:

- The "PaintEverything" development projects which the company have particular budget within on time delivered and the system reduce risk.
- This project provides a simple way in by developers to end-users and the "PaintEverything" never compromise their product quality.
- Users are extremely concerned in the progress of the project so, they are added possible to get a grip on the development project which the "PaintEverything" are requested to help external IT consultant "sally flowers".
- "PaintEverything" focuses on business objective and this model fundamental functionality is delivered fast, with extra functionality being delivered at common time.
- "PaintEverything" communication continuously with their user. And they are communication with IT team for their better development.

Disadvantage of DSDM:

Disadvantage of "PaintEverything" using DSDM Atren methodology. Including this:

- The managing director want to new e-commerce web store and database system, which the company creation new web store, so it is a fairly new model for employed and IT team. So, it is not incredibly frequent and simple to understand for IT team.
- The initial object, DSDM is expensive to execute, as it require developers and user both to be qualified to use it efficiently.
- It cannot be appropriate for one-time projects or small organizations. Because it is changing requirement development. For the changing project, the project cannot complete within in due time and the delivery will be late.
- If they cannot delivery within due time then they will be have to pay extra money for the project.
- DSDM allows communication with employee for making decision. So it is affected for project because, if they cannot fulfill market demand they have to face problems. (Anon., n.d.)

Section B: High Level Requirement Analysis with MoSCoW Prioritization-

B1- high level requirement review:

At create of every project, company director have an idea of what they want to complete. This first idea is typically a particular report concerning a company policy or an operational goal. While the idea is evaluation and not working into the dissimilar workings that require meet the policy or goal. The machinery turns into the high-level requirement for the project. Classically high level requirement, like- current little feature, focus on business needs, and not how the condition will be gathering, when observation mutually. There are two type of requirement such as functional and non-functional requirement.

B1.1- Not Appropriate High Level Requirement List:

Order and tracking quick and easy: it is non-functional requirement. The "PaintEverything" has order and tracking quickly but is not high level requirement for this project.

Payment & storing card information system safe and secure: payment and storing site will be secure. Because, if any person or any hacker do not attack to their security. So they need security for their project. So it is not high level requirement for "PaintEverything" and non functional requirement.

Un hack able: the paint everything company all the data manage by external IT consultant sally flowers team and their different employee. They are managing different type of data which they are keeping different data. Such as- manufacturing, marketing, sales and shipping. Because, the "PaintEverything" currently maintenance all that type of data. So it is non functional requirement.

URL registries: the PaintEverything are focus on manufacturing, marketing, sales and shipping, so it is non functional requirement. So it is not high level requirement for "PaintEverything".

Security vulnerability:

The "PaintEverything" project needs security Vulnerability. Because it can be establish in the most accepted operating systems, router, firewalls and fixed devices. Attackers that interpret the basis code can discover weakness to develop. Once an attacker is develop vulnerability it can

guide to full system cooperation, loss of responsive information. It is vital to review the project systems and vulnerability.

Availability of Online: it is non functional requirement. Because, the managing director realize that they need online availability for the product directly sell to individual.

B1.2- Appropriate High Level Requirement List:

Login & Registration: the site will be must login and registration system. First the entire client can login then they can registration this site for order or tacking product. Which, the client can order product for buying by online? They can logout their site. The site must be re-set forgotten passwords system. It is a high level requirement and function requirement. If any customer forgot their password they can re-set their password. So it is very secure system for the site. It is functional and high level requirement.

Lifecycle of product: the client select product by categories. The client chose product categories from cycle. So it is functional requirement.

Payment system & storing card information: it is a functional requirement; it is secure system for project. Payment system is very important for "PaintEverything". The customer can order product by online and then the product will be shipped. Payment needed for this system. For the ordering the customer need give their information. If the company needs any customer information then they found information easily for this system. So it is a high level requirement.

Return product: it is a high level requirement. The customer able to return product and the "PaintEverything" know how much their product is faulty and they can collection their faulty product by return product system. They can know their profit and loss by their faulty product. So it is functional requirement.

Search facility & find product: it is a high level requirement. The project needed search facility for finding product. Which the customer can search all product and they can select product by own chose. This feature will be help finding product. So it is a functional requirement.

Data integrity and security:

The data integrity and security are connected terms. Data security refers to the safety of data adjacent to illegal access or dishonesty and is essential to make sure data integrity. Data integrity is a preferred effect of data security. It is a high level requirement for "PaintEverything".

Mobile app for ordering: it is a high level requirement. This feature is helping for easily order by mobile. Which the customer can use this feature by mobile app. So it is easy to use for customer and they can easily order product by mobile app anywhere and anytime. So it is functional requirement for "PaintEverything".

Product Feedback: the customer will be contact "PaintEverything" for order or shipping product. They can contact by email, phone, etc. it is one kind of high level requirement for paint everything. And it is a functional requirement.

Track orders and shipping: the customer can order and shipping product. First they chose their product with quantity. It is a high level requirement. It is a functional requirement. For the reason, the customer can select product by own choice with quantities. Order taking system will be faster and more efficient. And this system will be more secure, because a valid customer id will be require, it is most important function of "PaintEverything". The customer can order product for buying and they can fulfill payment and then the client conformation from company by mobile or email. The client can see their order easily and get conformation. So it is a functional requirement.

B2- High Level Requirement List Using Moscow Rules:

MoSCoW Prioritization can be useful to tasks, products, requirements, user story, approval criteria and tests. MoSCoW is a technique for serving to recognize priorities. Like-

Must have

These offer the least functional separation of requirements which the project agreement to deliver. Like-

- it is risky without this
- company holder Cannot deliver without it
- Cannot deliver on goal time without this

Should have

- vital but not important
- can be hurting to leave out, but the answer is unmoving feasible

Could have

- required or attractive but less vital
- Less contact if missing out evaluate with a Should Have

Won't Have

- This facilitates to handle opportunity to a few necessities will minimally not create it into the deliver explanation.
- These are necessities which the development team has approved it will not carry. (Anon., n.d.)

B2.1- High Level Requirement List:

No	High Level Requirement	Prioritization
1	Login & registration	"S"
2	Lifecycle of product	"S"
3	Payment system & storing card information	"M"
4	Return product	"C"
5	Search facility & find product	"M"
6	Data integrity and security	"W"
7	Mobile app for ordering	"C"
8	Product Feedback	"C"
9	Track orders and shipping	"S"
Note- Must Have = "M", Should Have= "S", Could Have= "C" & Won't Have = "W"		

Must have:

Search facility & find product: search facility is the most important thing for e-commerce site. Which the customer can search product and find out product easily. So searching facility is the best thing for "PaintEverything".

Payment system & storing card information: now a day all the e-commerce system is online ordering. Which all the order will be online so, their payment and storing system will be must online system? It is very important for "PaintEverything". Which all the customer information will have this payment system. If the company needs any customer information, then they can collect information from this sorting system.

Should have:

Login & registration: login and registration system is very important for e-commerce site. Because, it will be secure the customer account and information. It is require for project. For purchase items the customer can registration and login their site. It is needed for "PaintEverything". Re-set forgotten password system is very important for this site, because if any customer forgets their password they will face big problem. If the site has re-set forgotten password system then they can get their password easily.

Lifecycle of product: product lifecycle important for "PaintEverything". The customer selected product easily from lifecycle. Which, the product shows category one by one.

Track orders and shipping: order and tracking system follow web format. Which show on customer all order, past, active and pending order? It is require function. It is big system of project, which the customer can order by online and the company gives order number. And the customer gets product then the company given conformation by email or phone. By the using this system, the company can collect customer information. Where, all the customer information will store by the company. And product select with quintets. Using this process the customer can select any product by own choice and select different type of quantities. It is require function of the business.

Could have:

Return product: return product system is most important for "PaintEverything". Because, the "PaintEverything" applying this system they can find out their profit or loss. Because they known their faulty product and calculation their profit. So it is significant for the business.

Mobile app for ordering: the customer can order by mobile apps. It is require function and it is vital for business. This system will be easy for order. Using this system the customer can order anytime and anywhere.

Product Feedback: the customer can contact with "PaintEverything" Company for any query or any question. They can contact by mobile, email etc. it will be easy their communication. When any customer can order product but they do not get their product, then they can contact company by this way. It is require function.

Won't Have:

Data integrity and security: using the Data security and Data integrity the company can safe their data easily. For the Data integrity and data security system anyone cannot hack their information. It is require function for "PaintEverything".

Section C- Legal, Social, Ethical and Professional Issue:

C1- LSEPI:

Legal, social, ethical & professional issues (LSEPI) have every company. Legal issue means low of legal question and social means problem influences considerable number of individuals within society. Ethical issue means require an organization or person and evaluate right or wrong chose between. And professional issue means honesty. Including-

(a)Why the "PaintEverything" needs a data controller:

The "PaintEverything" needs a data controller for data manage. The data controller manages data and control information. The company has already IT Expertise for their data manage but they want change their database for better service. So, the new system the company need data controller. Which they can manage data easily. The company provides two type of business. And they can provide different type of product like- manufacture, marketing sales and shipping. So the company need data controller all data manage. There are many vital responsibilities of the data controller. Such as-

- For Data protection, the company need data controller, which the data controller manage data securely from hacker.
- The data controller safe data from illegal purpose.
- They can control all type of data from unethical purpose
- The data controller control client access level and they safe data from client.
- The data controller manages all type of customer information. So they will more carefulness about data.
- They will save and secure customer information. Anybody can not hack customer data.
- So the data controller alert all time for unethical or dishonest person.
- The data controller manages data processing, so the controller need avoid a damage organism cause to the data subject. (Anon., n.d.)

(b) How the data controller could help overcome the Legal, social, ethical and professional (LSEPI):

A data controller is a company full data authority, which the data controller manage different type of data. Such as- the data controller can manage data; insert personal data, delete or update data as well as storing and process data. The data controller has full authority of those decision making system. The data controller manages data by flowing company privacy policy. If any customer information is needed for any company staff they can collect their information from the data controller. Data controller is the big responsibilities of the company. The data controller keeps different type of data Such as- internal data and external data. The data controller maintained company security. Which nobody or any hacker cannot hack and cracker any data of the company the data controller follow this. The data controller managed every site with relating data.

(b) Two practical example of the company:

Example one:

"PaintEverything" e-commerce base company and manufactures and sells paint to wide verity of customer. The company has two type of business like- one is hardware store and purchase and another is re-sell paint. Such as roof paint and sealants, DIY professional and building industry and art supply store. The company keeps different type of data for using that system. So if any staff shares company data with another company, it is unethical and illegal activities. For the reason the company loss their data and risk their business. The companies any staff share any customer personal data then they can loss their reputation and the customer can case company against for their personal life hamper. So it is LSEPI issue. So, the data controller need keep data protect properly and safely as well as securely. Because it can be hamper and destroy their business. So the data controller will be more careful about data collection and data protection.

Example two:

"PaintEverything" Payment and storing card information system is online base. Which the customer can face risk for any payment or any card information. If any staff can share any customer personal or any card information the customer will be hamper their personal life and loss money. "PaintEverything" payment process is when, any customer buys their product the company can give order number then the customer pay payment and the company sends e-mail or phone conformation. So, this process will be completed, third party is involved. One is order number and another is conformation. That means the customer one time give their personal information and next time gives card information. The company running with this process so, the company need more secure about business. If any customer information will be lack then the company will be face problem. The customer can make an action against company. So it is LSEPI issue. So the data controller will be stronger and more protectable for data collection.

C2- BCS Code of Conduct:

The company current process is manufacture, marketing, sales and shipping. For the system the company follows BCS code of conduct for their project. Including the BCS codes of conduct system develop to "PaintEverything" needs to consider.

1. Duty to the Relevant Authority:

In agreement to the duty to the relevant authority, the system developer of "PaintEverything" is not acceptable to make known any information of the system without the communicate agreement of the authority and must not be opportunistic and build up a comparable system with comparable in order on the recitation of the product to a third party so as to complete extra profit.

Example:

While the system developer will be develop their project. When the person will be control of all the private information in observe to this project. For the reason other challenger or other business man may desire to acquire information from him. So he must look authority from the "PaintEverything" for him to reveal their information and not build up like information to the other challenger company.

2. Public Interest:

Public interest means have due watch for public privacy, health, happiness and security of others and the environment. BCS code of conduct section of public interest the system developer individual a professional must be very aware of public security and privacy. The developer is not theoretical to release the client guarded information to others without their permission**.**

Example:

The system deal with customer newly for the reason, the system developer need the contacted with "PaintEverything" for project security. And the developer must follow the company need and their business focus point. And the developer ensures the system security and any data leak or loss.

3. Duty to Profession:

The system developer as a professional, the system developer projected to act with integrity and deference to other professional working in the similar work of the "PaintEverything" and too prove value to all employee of "PaintEverything".

Example:

The system developer duty will be like a profession. And he will be ignore all type of unethical or harmful activity which the company loss their reputation. Because, he is the person leads the "PaintEverything" privacy and information.

4. Professional Competence and Integrity:

Professional competence and integrity means demands to the system developer must build up the project in agreement with her/his certified knowledge and maintain consciousness of the technological process and the values to would be apply in the project. It is rules of the BCS code of conduct.

Example:

The company have already IT expertise for their data base maintained for e-commerce. But they want change their system. For the reason, the system will be new functionality. The system developer needs handle all the functionality with standard maintained and professionally. It is necessary for "PaintEverything" business.

Conclusion:

In this assignment I am gain many knowledge. This assignment will be completed; I am showing different requirement and develop system. Which the system has high level requirement, appropriate and not appropriate function, MoSCoW prioritization?   For completed the "PaintEverything" business report I am showing specific which the project implement the drawing service.

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