

NCC Level-5DC Diploma in Computing Agile Development

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Module Title : Agile Development

Assignment Title: Prime Properties

Examination Cycle: June 2016

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ID No

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Module Name : Agile Development

Assignment Title : Prime Properties

Number of Words : 2,835

I confirm that this is my own and that I have not plagiarized any part of it. I have also noted the assessment criteria and pass mark for assignments.

Due Date: 12/04/2016

Submitted Date: 11/04/2016

Student Signature: Fatema Akter

ACKNOWLEDGEMENT

At the beginning I would like to render thanks to the almighty Allah. And so I would wish to show my special thanks, gratitude to my teacher *MD*. **SHAMSUL AREFIN RAJIB** well as all other teachers. I did a great deal of research and I came to know about so many recalls and it helped to increase my knowledge.

Once more, I would wish to give thanks all of them who helped me to complete this Assignment.

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Introduction:

Now I am going to speak assignment agile development, in this assignment topic the Prime Properties (PP). This assignment will enable me to show my knowledge and understanding of agile development. This assignment has five tasks such as Task-1: Write a letter for managing director of prime properties, Task-2: solution development team: business sponsor and solution developer, Task-3: produce a letter for administrator, Task-4: vision statement and use case diagram, as well as Task-5: using the template gives appendix.

Agile Development is the best choice for this project:

Date: 5-4-2016

To

Imran Sarwar

The Managing Director of

Prime properties

From: Fatema Akter

Heading-Agile Development is the best choice for this project:

We know that agile development methodology is the best choice for this project. Why agile development mythology is the best choice for in this project including this:

- Agile development methodology is a good approach to use for small and medium size project
- Agile meant to deliver projects on time and within budget at the same time as focus on business values
- Agile *acceptable* for *project* to be *completed on time* by using prioritized requirements-the flexibility comes from the functionality including:
 - > not from reducing quality or
 - extending deadlines
- Agile places better importance on end user involvement all through the development cycle
- Dynamic system development model (DSDM) boasts the best-supported schooling with certification of any of the agile software development
- Spiral lifecycle model and System development cycle as well as prototyping
- Iterative development prescribes the creation of initially small
- Incremental progress inherent project risk by breaking a project into segment
- The most important things of agile development project that no change time and cost in the project running time.
- That means the project delivery time and cost is fixed. But the project running time they
 change their function or requirements before finish project.

(Tudor, (2010))

We know that this project name is *PP (prime properties)*. The PP (prime properties) was established 60 years ago. It has some long tram member of staff like residential sales manager, estate agents and administrators. PP (Prime properties) is an estate agency based in Brighton. This company specialist in the sales of high value residential properties. The agile development is the best choice for prime properties.

Including this:

- The PP (prime properties) project is Addition to advertising properties for sales and high value residential properties the company provides ranges of service. These services includes: providing house valuation, tidying and dressing properties.
- The PP (prime properties) practically **small in scope** would not essentially advantage from big design up front.
- The managing director wants the PP (prime properties) project completed within six months. Because this is an appropriate timescale for using agile development, as well as a strangely short timescale for the use of other customary methodologies such as the waterfall methodology.
- There is a number of *flexibility* in the prime *properties requirement*. The requirements are more flexible than the timescale.
- These *factors mark* it more suitable to the use of agile development, which sticks to the timescale and make sure quality.
- And does so by being flexible about the *requirements implemented*, rather than extending the timescale or dropping the quality of implementation.
- Customary methodologies are usually *inflexible regarding* the requirements, with the effect that project go over timetable.
- The company operates on a combination of commission model and fees model. The company charges a flat fee for the legal and conveyance cost.
- The standard package including the initial valuation, the professional photographs, advertising the property and providing accompanied viewing. Additional fees are charge for dressing the property.
- At the present the company handles all enquires by the person or telephone. To reduce time spent on non-serious enquires, the company wants a website to advertise its services and properties.
- The requirement list for the prime properties project is practically short, and it is
 possible that more necessities will be recognized during development of the website.
 Because everybody easily communication with company by the website and there
 buyer will be worldwide.
- **Therefore** The project would **profit** from the use of a more flexible advance like DSDM alter quite than less flexible customary methodology.

- Using an agile development methodology marks it additional likely that the end users of
 the prime properties system will get a system with the features they need as prime
 properties worker agent will be more involved all over the entire development process
 as part of the project or solution development team.
- The team member at prime properties has been **empowered** to make decisions concerning the **website**.
- This means that agile development is suitable and marks it additional expected to meet the needs of end user than using standard website development.

So that I think this project will be used agile development methodology. It is a *correct choice* for this project. So we can talk agile development is the best choice for this project.

• Business sponsor:

Managing Director- (Imran Sarwar)

Two reasons why he is a suitable choice for this role:

- > The business sponsor is the *project champion* who is *committed* to the project, the proposed solution and the approach to *delivering* it.
- ➤ The business sponsor must *hold a sufficiently senior position* in the *organization* to be able to *resolve* business issues (e.g. to force open closed doors) and make *financial decisions*.
- > He is available for project
- The Solution developer:

Estate agent-(Matilda mount)

Two reasons why she is a suitable choice for this role:

- > She has been **20** years ago experienced in this company.
- Has knowledge of all aspects of the business and she attends a lots of marketing conferences and spends a lot of time.
- > The solution developer *interprets* business requirements and *translates* them into a *deployable* solution that *meets functional* and *non-functional* needs.

(Anon., n.d.)

MoSCoW priority with one example:

Date: 6-4-2016

To

Sara Mullholland

The Administrator of

Prime properties

From: Fatema Akter

Heading- Produce a letter for the Administrator (of Sara Mullholland) that provides each of flowing points (e.g. MoSCoW priorities, Test-driven development and Risk-based testing).

- To create a agree to deliver on time and within cost, whilst maintenance a focuses
 on business need could mean that the worth of the deliverable would be compromised,
 unless we have some other flexibility.
- That *flexibility* can simply *come from* the futures we *deliver*, and may mean that a number of features so as to be *initially envisage* have to be left out.
- The optimistic feature to this is that if new necessary requirement come out during the
 project, they can really be careful for addition without frightening delivery deadline or
 cost.
- In a DSDM Altern project, quite intentionally, requirements are not fully analyses at the
 outset of the project,
- Therefore if a requirement dose has to be de-scoped, small work has been washed out on it.
- This *de-scoping* is always by *conformity* of the *suitable stakeholders* in the project and has a business-*value focus*.
- Each of the requirements recognized in the prioritized requirement list (PRL) is
 frequently assess for business criticality by the multi-skilled team made up business
 and technical skills and features can be prioritized for delivery according to business
 need and value.
- Some of the *non-functional requirement*, such as *security*, may also be classified as high priority.
- "MoSCoW" prioritisation is a technique for helping to gain common understanding for priorities.

The letter stands for:

- Must have
- > Should have
- Could have and
- ➤ Won't have

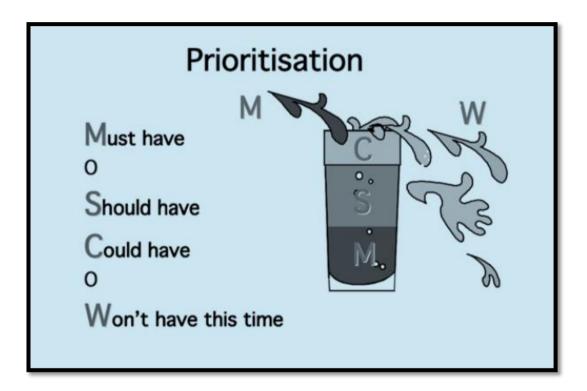


Figure No-3.1: MoSCoW Prioritisation

The advantage of this approach over categorization such as "desirable", highly
desirable, and showstopper, is in the description of what will come about to a
requirement in each categorization in conditions of the delivered solution within a
particular timeframe:

For example:

MoSCoW Does "highly desirable" mean that the solution is stall useful without it. The flowing is the much clearer definition based on **MoSCoW**

Must have:

• The "*Must have*" are requirement that are *fundamental* to the *system*, without them the system will be *unworkable or unless*. The "must have" define the minimum functional subset which the DSDM Atern project guarantee to keep happy.

Should have:

 "Should have" are important requirement, but for which there is a workaround in the short term. These would in general be classed as mandatory in less time-constrained development, but the system will be useful and usable without them

Could have:

"Could have" are requirement that would add some business advantage, but can be left
out of the increment under development without serious effect.

Won't have:

• "Won't have" this time still valuable requirement, but can wait until later development take place.

The MoSCoW rules provide the basis on which decision can be made about what will be developed during a Time box, within an increment of the project and over the project as a whole.

The Philosophy of Atern

Any project ...



- · Must be aligned to clearly defined strategic goals
- Must focus upon early delivery of real benefits to the business

Figure No-3.2: Philosophy of Atern

(Handbook, (2008))

Test-driven development with two acceptance example:

- > Test driven development (TDD) technique, started in 2003 that generally used for software development process.
- > TDD is provides technical testing that relies on the repletion of a very short progress which defines an initially failing, automated test case.
- It is also provides desired improvement or new function and produce minimum number of code when pass that test.
- > TDD encourages simple design and inspires confidence.

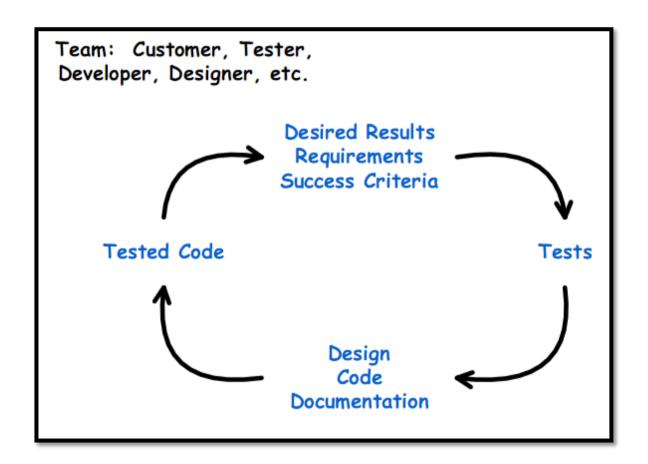


Figure No-3.3: Test Driven Requirement and development

- We are flow waterfall project, when do we valid that the system meets the user's requirement. This system design name is V model.
- Firstly flow user requirement then software rqmnts Spec then high level design including detailed design, code, unit test, integration test, system test, acceptance test.
- This way the project will be progress. *Including* the *V model* design system:

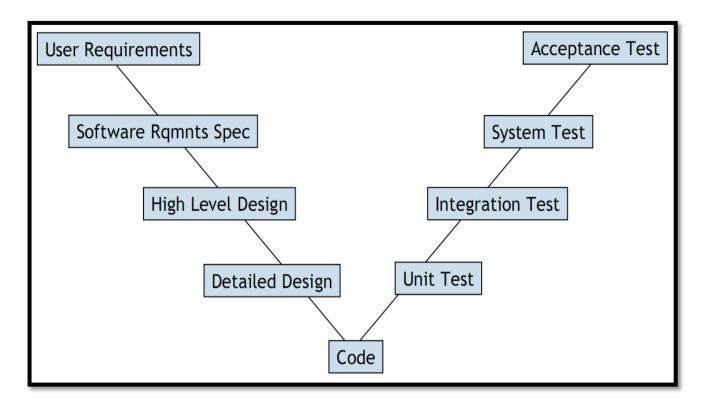


Figure No-3.4: V Model

For example:

Add a test:

- ➤ In *Test-driven development*, every new feature begins with writing a test. The development has to *clearly know* the features' *requirement and condition*.
- > The **developer** can **achieve** this from side to side **use cases** and user stories to cover up the requirements and **exception conditions**.
- ➤ And can write the test in anything *testing framework* is *suitable* to the software environment. It could be a *modified version* of an *existing test*.
- > This is a *make different feature* of *Test-driven development* against writing *unit tests after the code* is written.
- ➤ It makes the *developer meeting point* on the supplies before writing the code, a subtle but *vital distinction*

Run all Tests and see if the new test fails:

- > This *validate* that the *test connect* is *working correctly*, that the new test does not *incorrectly pass* without requiring any new code, with that the required feature does not *already exist*.
- > This step also **tests the test** itself, in the negative. It system out the **possibility** that the **original test always passes**, so is valueless.
- > The **new test** should also **fail** for the **expected reason**.

(Anon., n.d.)

Risk based testing with two examples:

- ➤ The *project management has two part* planning *issues*: such as *parts-1 and part-2*. But part-1 divided into two parts like *control and risk*.
- > Here I have **described** about **risk**. Including this:
- Risk: we know that a project risk is something that may happen and if it does, it will have detrimental effect. Here I have draw a Typical Risk Management Process.

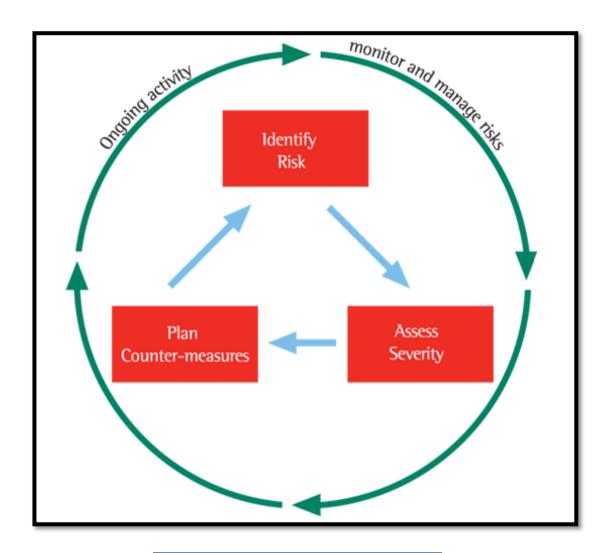


Figure No-3.5: Risk Management Process

For example:

- Low or patchy availability of business roles. DSDM Atern relies having on having the right level of involvement from the right business people thought the project. Lack of availability of business people can delay the project or compromise the end products.
- Swapping team resource in and out. A stable team speeds up progress and limits documentation required. Swapping team members increases the amount of documentation required and slows things down
- ➤ Having a fully *detailed specification* at the outset. This *removes flexibility* and makes it harder to embrace *change* or commit to a *timescale or budget*.
- Client expecting 100% solution to be delivered on time and budget. If 100% functionality is required (no MoSCoW prioritization) than quality is likely to suffer if the other variables of functionality, time and cost are not flexible.

Business vision statement:

"The company project name is *prime properties*. The prime properties were *established 60* vear ago. It has some long term member of staff including the residential sale manager, estate agents and administrators. The company specializes in sale of high value residential properties. This company will provide ranges of services. These services include: providing house valuations, tidying and dressing properties. This project deliver a services which will allow prime properties to easily handle with all of the paperwork associated with Calculating a commission model and a fees model the company charges a flat fee for the legal and convincing cost and also the estate agent receive the sales commission for each property. The company charges a fee for the sale price of the property for its standard package. Including: the initial valuation, the professional photographs, advertising the property and providing accompanied viewing. The company advertising in up market magazines and newspaper which has worked well for it target market. It is so difficult for staff. For the reason the new managing director is fanatical to *update* the *business system*. At the present the company handles all the enquiries by person or telephone. For that many time is waste and the information is missed sometime for that the company need a website. Because the company save time and their advertising provides every place as well as everybody know them and the company get easily potential buyer worldwide. The new system is to be available within the next six months."

- Produce a use case diagram:
- Diagram for staff photographer:

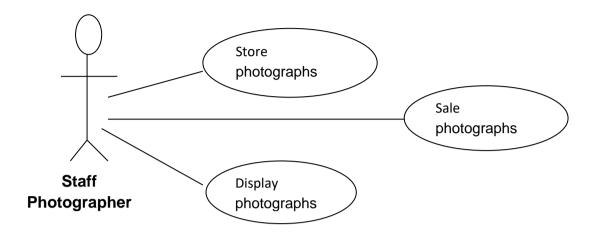


Figure No-4.1: Use case diagram for Staff photographer

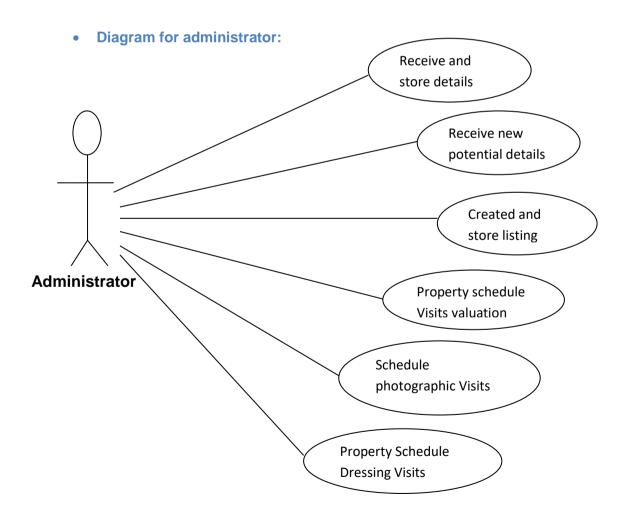


Figure No-4.2: Use case diagram for Administrator

• Diagram for administrator:

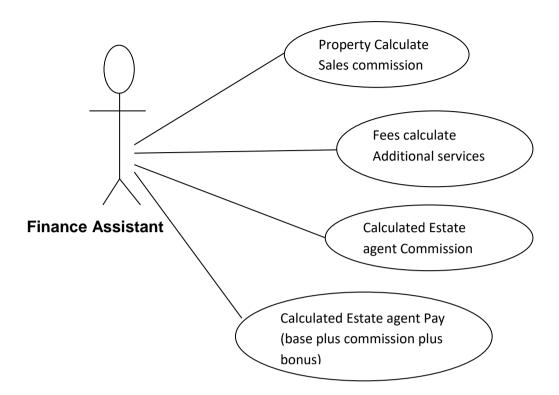


Figure No-4.3: Use case diagram for Finance Assistant

• Diagram for Finance Manager:

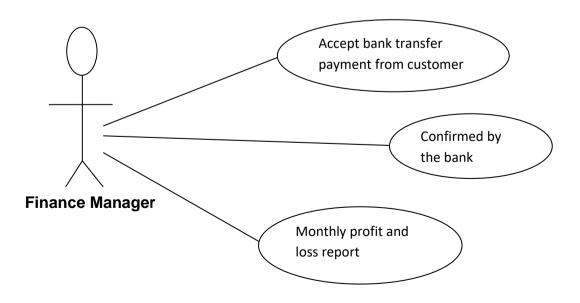


Figure No-4.4: Use case diagram for Finance Manager

• Diagram for Estate Agent:

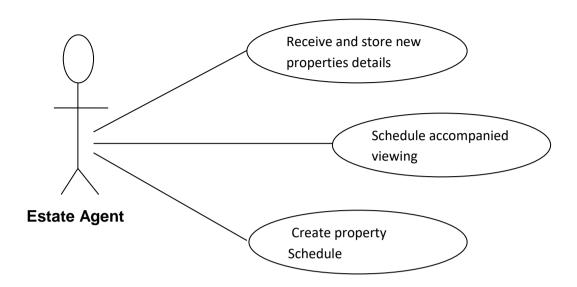


Figure No-4.5: Use case diagram for Estate Agent

- Using the template give in appendix A:
- Requirement list:

Requirements	Requirement short	Requirement description	Acceptance
identifier	name		criteria
R-1 Functional	properties details		Via telephone,
		Receive and store details of	email, or face to
		new properties for sale	face Carried out by
			Estate Agent
R-2 Functional	potential details	Receive and store details of	Via telephone,
		new potential buyer	email, or face to
			face Carried out by
			Administrator
R-3 Functional	Receive details	Receive details of new	Via web form
		potential buyer	
R-4 Functional	Store photographs	Store and display	Carried out by staff
		photographs of properties for	Photographer
		sale	
	Create listing properties	Create and store listing of	Carried out by
R-5 Functional		properties available for	Administrator
		marketing purpose	
R-6 Functional	Schedule valuation	Schedule property valuation	Carried out by
Transitional		visits	Administrator
R-7 Functional	Schedule	Schedule <i>photographic visits</i>	Carried out by
	photographic		Administrator
R-8 Functional	Schedule	Schedule accompanied	Carried out by
	accompanied	viewing	Estate Agent
R-9 Functional	Schedule "property	Schedule "property dressing"	Carried out by
IX-3 i dilottorial	dressing"	visits	Administrator
R-10 Functional	Sales commission	Calculate property sales	Carried out by
	Calculate	commission	Finance Assistant
R-11 Functional	fees Calculate	Calculate fees for additional	Carried out by
		service	Finance Assistant
R-12 Functional	estate agent	Calculate estate agent	Carried out by
	commission	commission	Finance Assistant
	Calculate		

R-13 Functional	Calculate estate agent pay	Calculate estate agent pay (base plus commission plus bonus)	Carried out by Finance Assistant
R-14 Functional	Property schedules create	create Property schedules (booklets describing the property marketing purpose)	Carried out by Estate Agent
R-15 Functional	Create monthly report	Created a <i>monthly profit</i> and loss report	Carried out by Finance Manager
R-16 Non- Functional	Property schedules and invoice	Print invoice and property schedules rate	1 page every 3 second and upper 6 second acceptable

Figure No-5.1: Table for using template

Conclusion:

In this assignment I have described the prime properties. I have completed the entire *task* in this assignment. Such as *Latter*, *solution development team*, *MoSCoW priority*, *Test-driven development*, *concept of risk*, *vision statement*, *use case diagram* and *using template functional* and *non functional* requirement. I have successfully completed my assignment. In this assignment I have gain a lot of knowledge.

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