|  |  |
| --- | --- |
| CRM  (customer relation management) | ERP  (enterprise resource planning) |
| Start with sales department management | Start with financial management |
| Mange customer interactions with systems | Manage business resources |
| Deal with customer data only | Shared data base to all parts of business |
| Cannot handle transactions with data, it read only data to analysis it | Handle interactions with data as it mange all business resources |
| Doesn’t have ERP systems | Sometimes have CRM systems internal |

Assigment2:

1] Case study1: A personal insulin pump

product type: Customized products

application type: Embedded control systems

model: v model

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2] Case study2: Mentcare: A mental health support system

product type: Customized products

application type: Stand-alone applications

model: waterfall

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3] Case study3: weather

product type: Customized products

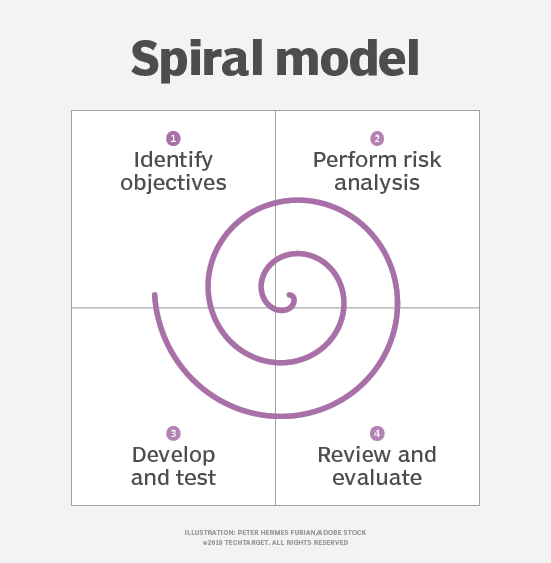
application type: Data collection systems, Embedded control systems

model: waterfall

Assignment3:

1] spiral mode

-methodology: it is a combination of plan driver development specifically (water fall model and incremental models)



In spiral mode, each loop represents a phase in development process where consist of basic 4 parts

1-analysis (gathering requirements, solutions)

2-planning and design (risks, porotype)

3-development (code, test)

4-deployment (review, support, feedback)

And so on till final deployment.

-when we use it:

1-the large projects and also projects that already started

2-customer need to see frequently the project

3-high risk projects

4-clients are not clear about requirements

5-frequent changes

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| --- | --- |
| advantage | disadvantage |
| Flexibility in requirements  (changes or additional requirements can be added later) | Cost (it consider an expensive method so it is not suitable for small projects) |
| Fast deployment | Can take very long time ( the reputation of phases till final deployment is unknown) |
| Customers can see the project features before final deployment so it is garneted the projects fits exactly his requirements |  |
| Well risk handling (at each phase risk is calc and handled) |  |

2]V mode (Verification and validation)

-methodology: it is a plan driver development



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Ii is the same phases as waterfall model but instead of waiting till development finish to start test phase, at each phase there is a test created to test. After the product is finished development the tests test the product for the requirements of each phase till reach to acceptance test.

In V model tests is run

-when we use it:

1-the requirements are clear and defined

2-high reliability projects

3-small to medium projects with no frequent change

|  |  |
| --- | --- |
| advantage | disadvantage |
| Simple and easy to understand and use | Not suitable for complex projects |
| Reliable (as it well tested and can make error free , high quality projects ) | High risk  (requirements can be changed during process) |
| Fixed time and well management | Can be used with concurrent events |