| Can | nlin | Page | |
|------|------|------|---|
| Date | 1 | | 1 |

Assignment 1

Vansh N Jain 202001351

25

Division : B.

To study software Process models & identify their applicability to various coregories of projects.

A software process model is an abstraction of the software development process. The models specify the stages sorder of a process. It is a representation of the order of activities of the process the process the sequence in which they are performed.

A model derines the Pollowing:

The tasks to be performed.

The input & output of each task

The pre & post-conditions For each task.

· The Plow & sequence of each task.

Pactors in choosing a software process

· Project requirements

· Project size

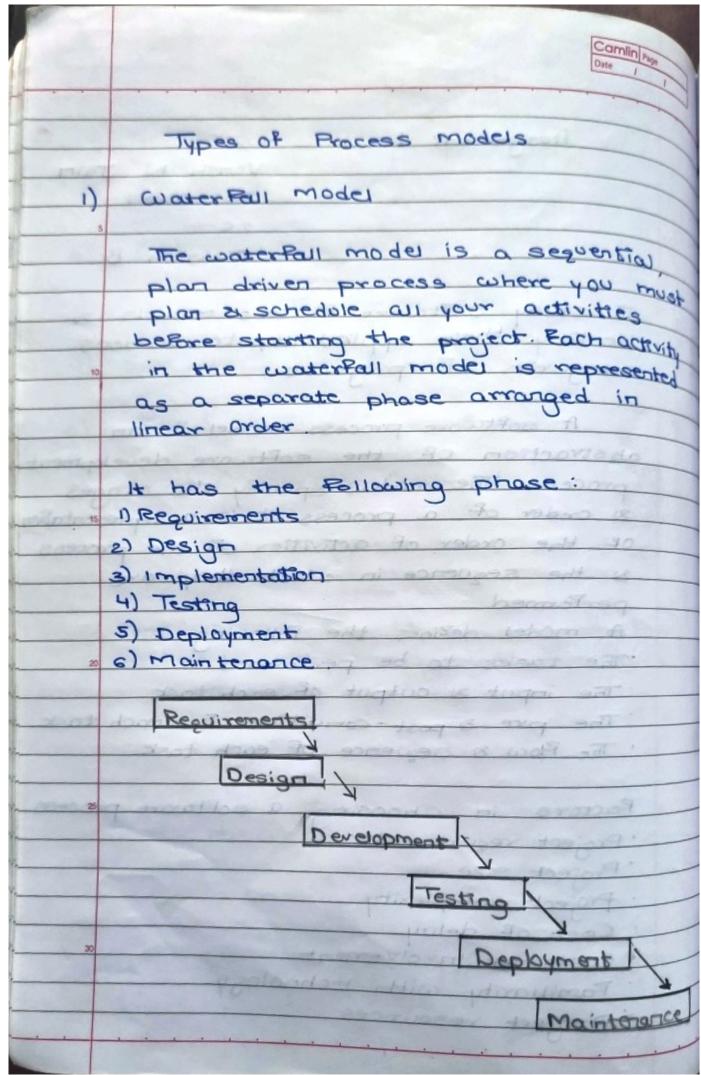
· Project complexity

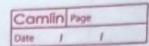
· Cost of delay

· Customer Involvement

Familiarity with technology

· Project resources





Applicability:

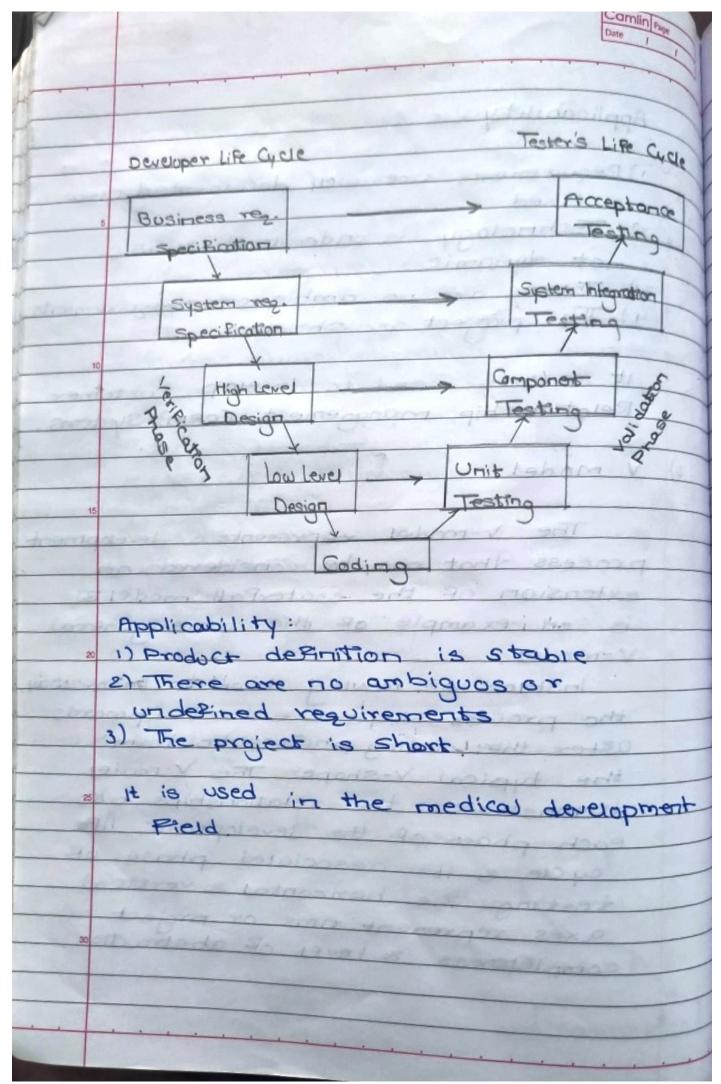
- 2) Pequirements are well downerted, clear
- 2) Technology is understood is is
- 3) There are no ambiguous requirements.
 4) The project is short

It is/was used to develop customer Relationship management (cem) systems.

2) V model

The v-model represents a development process that may be considered an extension of the waterfall model & is an example of the more general V-model

Instead of moving down in linear way,
the process steps are bent upwards
after the coding phase, to form
the typical V-shape. The V-model
demonstrates the relationships blu
each phase of the development life
cycle & its associated phase of
testing. The horizontal & vertical
axes represent time or project
completeness & level of abstraction



3) Incremental model

The incremental build model is a
method of saftware development where
the model is designed implemented &
cated incrementally (a little more
added each time) until the product is
maintenance. The product is defined
as finished when it satisfies all of
through the requirements, design, Coding
the testing phase. Each subsequent release
of the system adds function to the
previous release until all designed
endocated

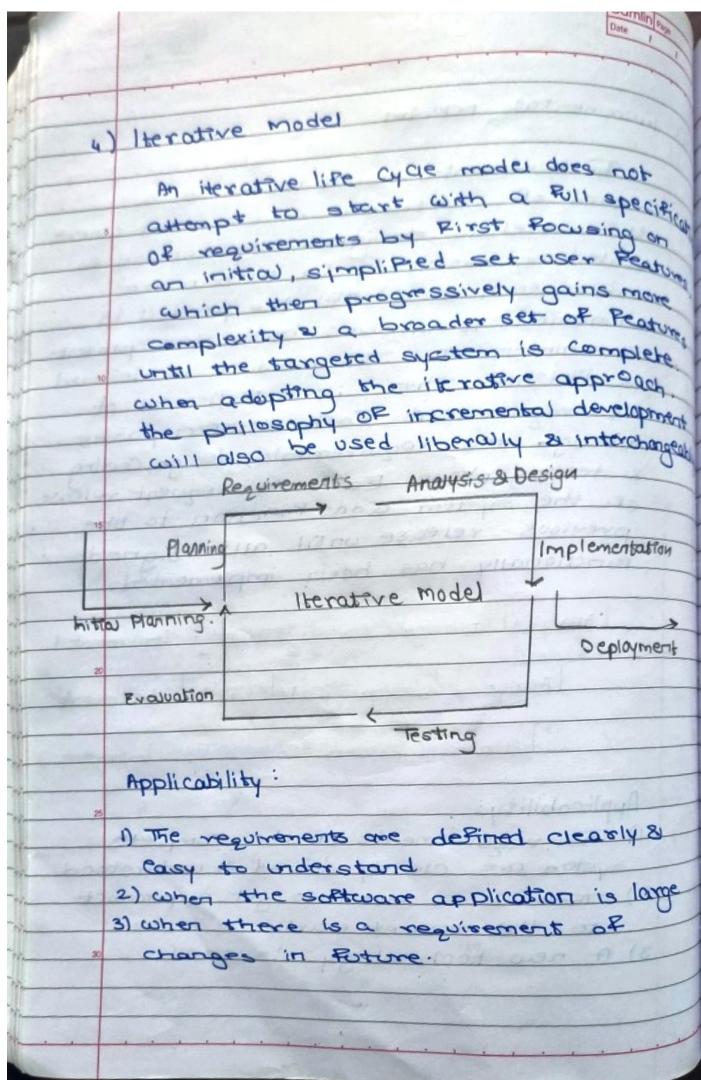
Enconally has been implemented.

Analysis Design Code Test Increment 2

Analysis Design Code Test Increment 3

Applicability:

- 1) The requirements of the complete
 system are clearly defined & understood.
 2) There is a need to get a product
- 2) There is a need to get a product to the market early.
- 3) A new technology is used.



| Camlin Page |
|------------------|
| Camlin Page |
| |
| |
| |
| |
| For a set of |
| d on the |
| ressed in the |
| way of |
| om w business |
| nd to changing |
| sk. |
| |
| enary many |
| |
| y (XP) |
| 5 |
| |
| AGILE |
| |
| XP |
| Karban |
| Lea h |
| POD |
| 1 |
| are development |
| crative |
| ement & solution |
| n blw |
| tional beams |

Agile model

Agile is an umbrella term for a set of methods su produces based on the values & principles expressed in the Agile Manifesto that is a way of thinking that crabbles team & business to innovate quickly respond to changing demand, while mitigating risk.

Organization can be agile using many of the available framework available such as serum Ranban Lean. Extreme Programming (XP)

The agile method proposes alternative to traditional project management. scrum They are used in software development to bsom help businesses respond Crysta to uppredictability which refer to a group of softo methodologies based on it development, where requir evolve through collaboration Self - organizing cross-Fund Disover It system have rapidly new change some need to be implemented 2) Developer regaine more Design Design

Freedom OF time & option.