to satisfy the meed of customer.

Functional & non-functional requirements (D) eq. (D) user requirement. - The requirement of customer (statements) system requirement - detailed description of softwar - How Swhat to implement (reader) of user requi. - not usually concerned with how the system will implement e.g. manager reader of system requi - need to know precisly what system will do e.g. developer. System requirent e.g. cab booking non-functional functional system functions offer what system by gystem showd do "system should react/ - performance, security or availabily perform in particular situation

10,00
Page No. Dete
Non-functional
Product organizational external
usability -, environmental
efficiency operational togistic
dependability , Development - Account
, security > Security
1 second
elicitation - collecting requirement of system from
user i customer & other stalished
a con (some some some some some some some some
MC .
Software requirement Specification (SRS)
- description of a software system to be deve-
loped. (documentation)
- lays out functional & non-functional requirement
- It may include set of use cases (situations
that describe user interaction that the softw.
are must provide to the user for perfect
Structure. 1) Intro- 1) Purpose 1) Purpose
i) Purpose
2) Intended audience (Faculty, student) who use
3) Scope (Future scope)
4) Definition (Principal, director, administrator)
s) References
2] Overall description
i) User interfaces
- student interface (pages visible to student) 2) System interface
- Carran
- Servers.

	Vinge No.
	Constraints, assumptions & dependencies
a)	- conditions (age, password)
97	- conditions
the state of the s	
HI	
	3) System features & requirement
	3) System Feature
+	i) Funt
	ii) use cases iii) external interfaces requi
) down A
	iv) logical DB requires quality.
	iv) logical DB required quality. v) non-functional required quality.
	0 0 0
	- page series
	- prestraint - prequirements should be clear, - inser & system requirements should be clear, unambiguous, easy to understand, complete & consistent unambiguous, easy to understand mot be include
(0)	easy to understand results include
	unambiguous, easy to understand restriction and be include requirement document should mot be include requirement document architecture, or design
	a) Natural language sentence. 1) Natural language sentence, mumbered sentency
	1) Natural language written using numbered screen
	- requirement
	in NL
	2) structure HL - Requirement written in Std Form or template - Requirement written in Std Form or template
	- Requirement written III 320
	3) Design description languages like a programm
	3) Design description languages - This approach uses a language like a programm - This approach uses a language like a programm
	ing language but with more abstract features
	4) Graphical models, supplemented by text annota-
	tions.



as per a (1) (8) (9)

Requirement elicitation is the requirement reasonable of a system from users I customers & other stake.

A Process

- the required performance of system

Requirement validation

- checking requirements means define the
system that the customer really wants

- it is important because error in a require
ments documents can lead to extensive rework
cosk when these problems are discovered
during development

- The cost of fixing a requirements problem by

making a system change is usually much greoter than repairing design or coding emax 3 Requirements managements

- requirements of large software always changes because of it is developed problems - that cannot be completely defined.

- Planning is an essential 1st stage in the requirements management process

- The planning stage established the level of requirements managements detail is to require





- -decides on
-) Requirements identification
- each requirement must be uniquely identified
- a) A change management process
- set of activities that assess the impact & cost of changes
- 3) Traceability policies
- define relationships bet each requirements shot the requirements & the system design that should be recorded
- 4) Tool support
- requirements managements involves the processing of large amount of info about requi rements.
- Process activities ax.
- 1) Requirement discovery
- process of interacting with stakeholder of sy-Hem to discover their requirements
- 2) Requirement classification
- Domain requirements from stakeholder &dorumentation are also discovered during this activity 3) Requirement promisation
- concerned with prioritizing requirements & finding & resolving requirements con
- 4) Requirement specification
- The requirements are documented & input into the next round of spiral,

	Page No. Dete
(8)	Insulin pump case study
8	Function -: Compute insulin dose Description: Compute the dose of insulin to be delivered when the current measured sugar level is in the safe zone beth 3 & y units input: Aument sugar reading (52), the pre- visus two readings (no & y) Source: Current -> Sensor other -> memory Output -: Complete dose destination: main loop control loop
	Tabular specification of computation for an insulin pump
3)	Condition Sugar level falling (rozm) Sugar level stable (rozm) Sugar level stable (rozm) Sugar level increasing & rate of increase decreasing ((rozm) < (rozmo)) Sugar level increasing & Complose = round rate of increasing stable ((rozmi) 4)
	or increasing ((m2-m)) = (m-mo)) If rounded mesons sult = 0 then Complose = min Dos