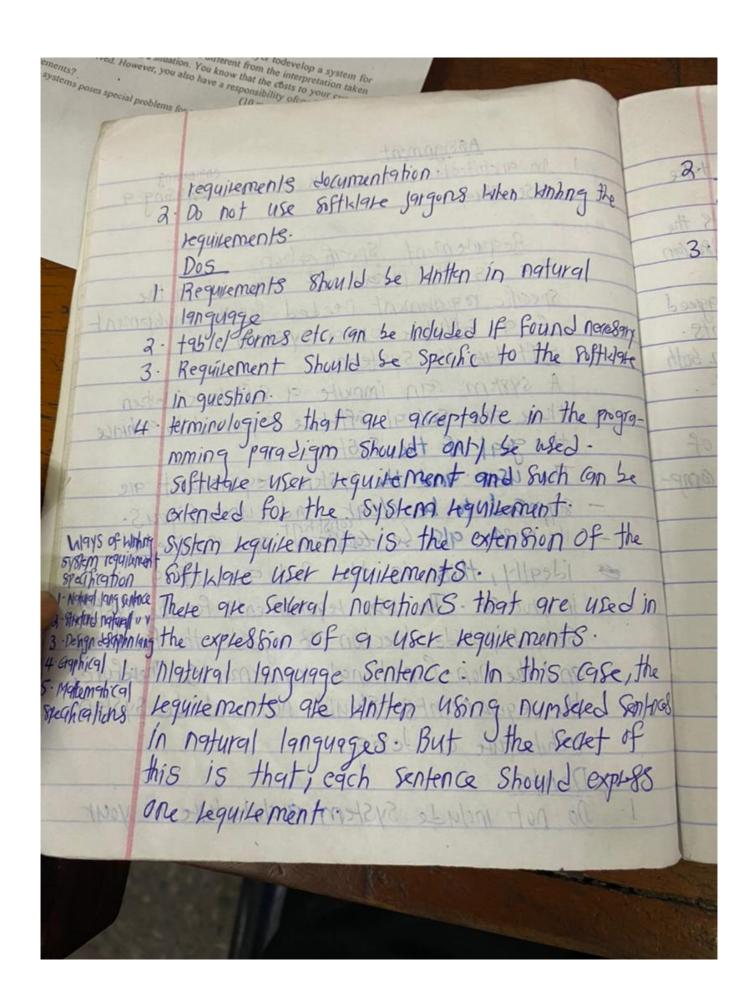
Assignment 1. An architectural framehork on reversed, using 9 Case Study:
thin granifectural Framehlurk on reversed using 9
Jequiuements
Requirement Specification This is the purees of landing dolln the
This is the phrees of Hitting dolln the
specific regulament needed for the Leiderment
of a suffklak or a system.
A system can immute a softklare when
there give selleral software required to achince
the gog / AB the System.
The user gram the system requirement gre
- supposed what bendegt and unambigues. - It must a glad be toostant and complete
- If must so also be too stant and complete
sideally, this is the 3rd aim of a
in phiress. The user requirements for the system
Should prollide direction as regards the Functional
and the non-functional tequitements. Therefore,
the requirements should not include system
orchibetive at lesion
grehitectuse or Jesign.
this is that, each sentence stathod course
1- Do not include system grohitecture in your

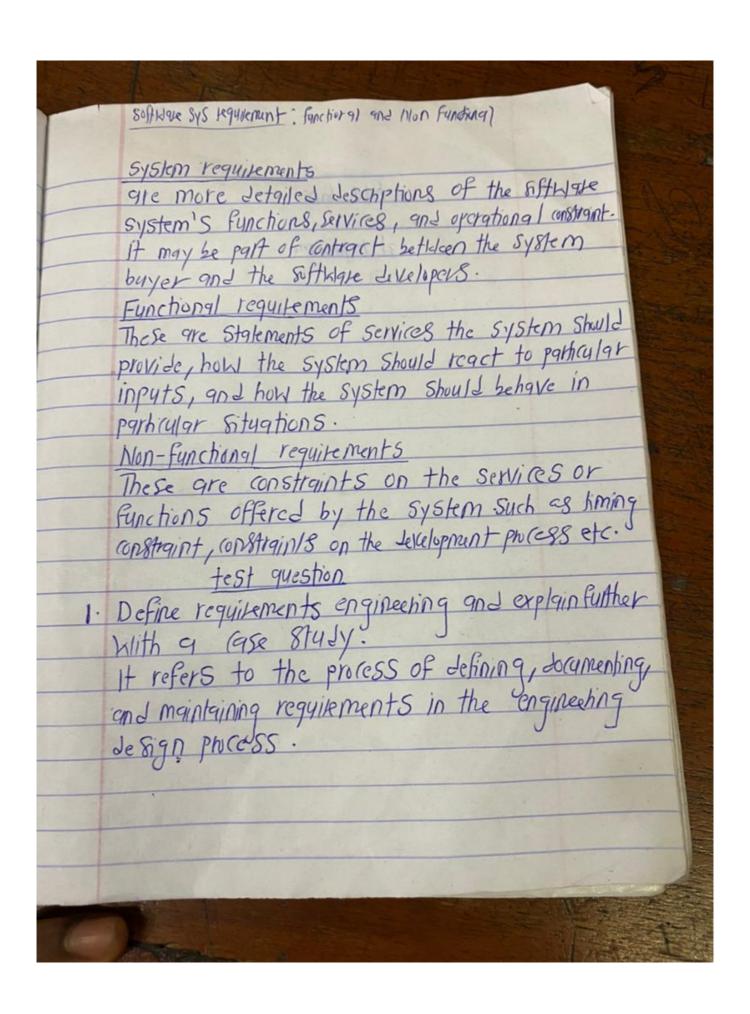


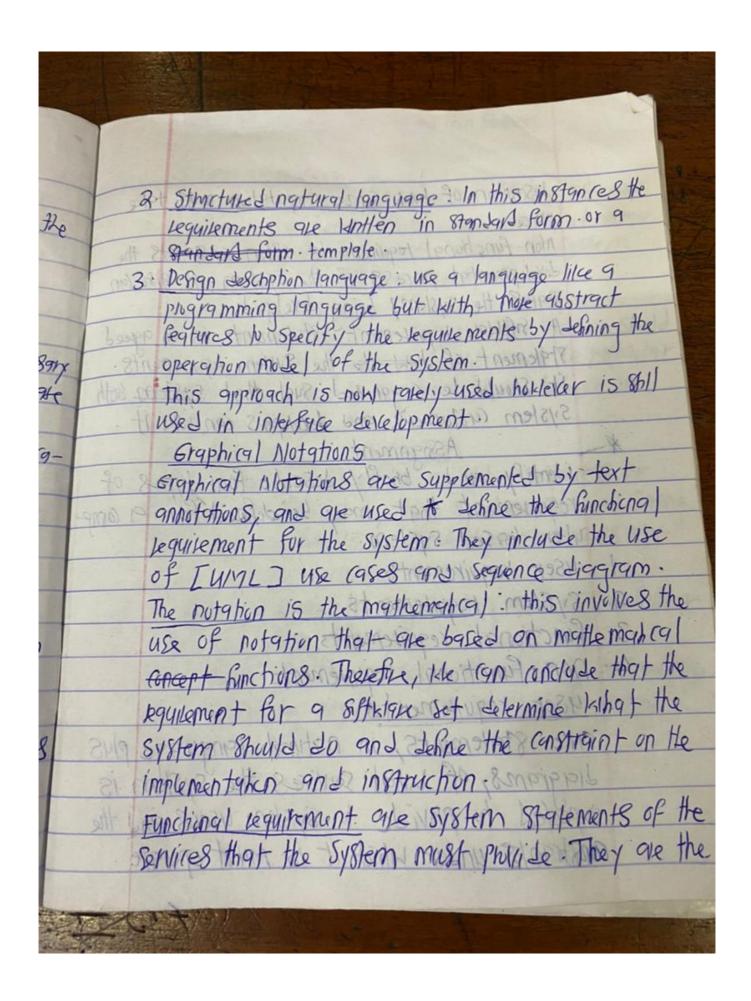
Jesniphion of hold some computation must take Non-functional requirements often constraints the Levelopmental pricess of the system. it also go A softly le systems being Leveluped.

A softly le seguitement 874 tement is an agreed Stylement of hot the the System requirements. it should be organized such that system both System customers and Lexelopers can use if. Assignment

identify and bhefly describe four types of
requirement that may be defined for a omp

uter-based system. 1: User requirements 22 System requirements 3. Functional requirements 4. non-functional requirements 4 yser requirements gre 8talements, in natural language plus Liggrams, of hihat services the system is expected to phovide to system users and the constraints under which it is must operate





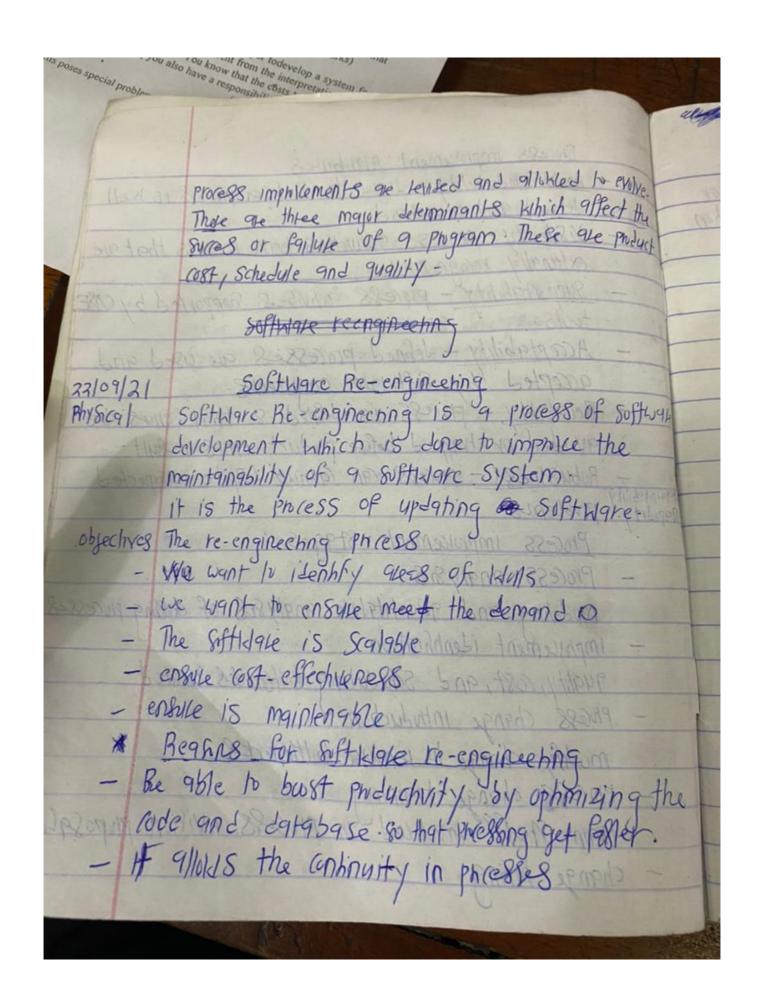
TU TU
st zuom Software Engineering and
Softwares are computers programs associated documentation.
Softhlare is a specific requirement use for Suff-
- Senetic photoct 8-10 2917-3-14919 Marcs -
Attributes of a good software
- must be maintenable on the efficiency
- dejendable sussession - Acceptability
- usable, undustandable - security
- able to deliver the require of functionality and pafermance
2 Findamintal Software engineering water tols
- must be deployable, updateable and carry out cote testing-
Engineering has to do with developments of products
using Well defined smarking phonoples and methods.
S. E is an emerging discipline engineering branch
using software photocts.
softhigre engineering is an engineering branch associated
Whith the development of software product using Well
WILLY THE GENERALITY OF STITUTE PROTECTIONS
I dened scientific phinciples and methods. The outcome
of siftuate engineering 15 an ethicht and seliquite
of negthbare product ground March 31 +1 -
it is ealso an engineering discipline that is concerne
Will all accorde all all all participal
With all aspects of shall represent is after a small represent the small representation.
Sufflage When was In a shall before is all and

W. Soft klane, kilhen made for a specific requirement is SOFTWARE ENGINEERING Called & Softhlare phoducts and Types of Softklare products Generic products These gre 879n Jalone 80ft 49re8 that are produced by a development organization and sold on the open market to any customer who is able to buy them. e.g word processurs, Jahring packages. 3. Customized (or bespulse) products of those gre
that are commissioned by a particular * Fundamental Software engineering Softhlare Specification 30 ftdgre developments to 201 - Softklake Walidations bonds 80ftkl9te revolution priptomo importance of Software engineering More and more, individuals and society rel on galvanced Sufflight Systems. We nee be able on Produce reliable and thistitlorth Systems economically and quickly is usually chequet in the dang Myn, to use ofthelesengineering methods and technique For Sufflygle 51/8/ems

308 200 SOFTINGRE Process
A Software process is a sequence of activities
that leg 18 to the production of Software product
There are four fundamental activities that are common
to 911 &ffk1gre process:
- 1- Software specification: whose customers and engineers
define the suffkigge that is to be produced and the
Constraints on its operation.
2. Softklate Leitelopment: Inhose the softklate is designed
by 89912 phogrammed not estable larger A
- 3. Softklare 1/9/129tion: Inhere the Softhlare is checked
to ensure that it is higher the customer regules.
4. Softlagre evolution: where the softlagre is modified
to reflect changing ay Stomer and market requirements
- Understanding existing invisions
outsi Minformation Systems development subatal
Resources -> Activities -> Products
1 Ythour at nightle bezelenningenibnemeltgrukigtenbir -
Analytis sufficience
salet no 8-2 mon Perigna July Perigna July 18 Borgmentation -
Construction and 19e1 construction
- There are other proceedings that desented a
· training mother

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* HVDE	A System Process A
profeed	A system development pricess is the set of gammas
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	The state of the s
J engine	by the identification of the current 8tate-of-the-
र उठ रे र्राष्ट्र	Practise of information systems Levelopment Within an
	organization and then improving it
designed	organization and then improving it
6	A logical organization of people, procedures, and
is deal	technology into klork activities designed to transform -
2-HNP	result
- Albom	resulting of sull nonthing organized
WINDS A	Process imposement Goals
-	undastanding existing processes
-	introduce process changes to improce quality, reduce
	costs, or accelerate schedules.
- 1	industry is demanding indeased attention to quality in
9	general. All SmylphA
-1	1087 pricess impricement work foruses on lefect
la	eduction and preliantion
7	here are other process attributes that deserved our
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Process improvement Attributes
achvities - understandability - Logice to which a pricess is klell
veloper defined and undarshod.
ems Visibility-process activities have results that the
iven externally veragnizable.
- the - Supportability - process achvibes supported by OBE
190 Proposition 18 1 - con a control and
- Acceptability - Jefined processes are used and
accepted by softkight engineers.
and - Reliability - process is Jehned so that emis are
9 youded or trapped before product emis result.
1 108 - Robustness - pricess can continue Lespite unexpected
- Rapidity Problems
Process improvement 8799es
- Process analysis and the of the
e modeling and guantitative analy 828 of anshing process
- imprisement identification
9 guality, cost, and scheduling buttlenedes located
- Phase change introduction
mulifu change to remove buttlened
- process change training tood of side of
- process change training throws uvision phosa
- change himner of the control of 200119 4



Sur Silver	
aly	is the examination and alteration of a system to reanstill the it in a new form.
the Just	- imphiles opportunity - softklare re-engineering is necressing because whe want to alkid the HSKS- [reduction in risks]
	Factors that affect 108t of & Ft klake - Re-engineering The guality of Software to be re-engineered
14/4e	The tool support quallability for re-engineering The extent of the data conversion that is required.
-	The grailability of expert 874ff for re-engineering.
1-	information that philides a detailed description of every
3 -	or hold it can be used on must be updated.
3	relaise engineering - 9 pricess of design relovery, reverse engineering twis extract 2949, architectural and
	Produced Length info from an existing phyram. Data testing: It segin with reverse engineering
	activity.
4 m	code reconstructing toul. The Source code is analysed using

