

GALGOTIAS UNIVERSITY

CAT I Semester III, V, VII, IX All Programs Answer uploading Template

Admission No. of Student	215CS E1011615	Name of Course	Software engineering	
Name of Student			aut to the	
Program	Abhinar kumar Choudhary	Course Code	BCSE 23 5 5	
Semester	B. Tech CSF	Date of Examination	30/09/2022	
	Third	Time	11:00 - 12:30	
Signature of Student	Abhinar kumar chy			

Student shall start writing from below:

1) The prime	o. Breclise.	of soft	ware en:	gineeving
1) The prime is to develop	metho	ds 2 p	o o dues	for
software deve	lop ment	that ca	m scale	up for
the large	sylems.	of that	can be	consistently
to produce	high- que	elity soft	livare at	low
cost & with	a sma	Il cycle	of time	

2) SRS (Software Requirements Specification) is a document that describes what the software
all of a hour it will be averaged of
will do I how it will be expected to
perform. It also describes the functionality the product needs to fulfill all stakholders needs.

Project to understand the viability of the product. Understanding a products feasibility has a lot to do with how it will perform

competitors bare of tel work, what
competitors have created and how will this
Product will survive in the market.
Types of fearbility its de '-
Types of feasibility study - U) Technical feasibility:
This assessment focuses on the technical recourses available in the organization:
technical recourses available in the organization.
LACATALII. (V.)
benifits analysis of the project. (iii) Legal Feasibility:-
benifits analysis of the project.
(iii) Legal Feasibility:-
These assessment investigates the aspects.
These assessment investigates the aspects of the proposed projects conflicts with legal
oeg uremen 1
v) Operation Feasibility:
This involves undertaking a sludy
to analyze & determine whether I how well organiz- ation needs.
V) Sich e duling feasibility: This is very most important for project success and estimates in how much time over project completed.
This is very most important for
occupit success and estimates in how much
time our project completed.
1 0

4) Software Requirement Specification is a document that describes what the software will do p how it will be expected to perform. It also describes the functionality the Donduct needs to fulfill all stakeholders needs. This report lays a foundation for software engineering activities and is constructing when the entire requirement are elicited and analyzed. In order to form a good SRS, you must remember their points: 1) Introduction · Purpose of this document · Scope of this document · Overview 1) breneral description 3) Functional Requirements (4) Interface Requirements (5) Performance Requirements (6) Design constraints 7) Non-functional Attributes (3) Preliminary schedule and Budget 3) Appendices

The waterfall Model was the process model to be introduced. It is also referred to as. a linear-sequential life cycle model II is very simple to understand , use: The spiral model, initially proposed by Bothern Boehms is evolutionary software process model that couples the iterative features of prototyping with controlled and sequential systemic aspects of the linear countries systemic aspects of the linear sequential model. There are six different phases of waterfall included are:

Us Requirements: — It involves understanding what

needs to design what is its function, purpose, etc

(ii) System Design: — It helps in specifying hardware

and system requirements also helps in defining

everall system architecture: (iii) Implementation: - with inputs from system design oysteme is first developed in small programs called units: each unit is developed of tested for its functionality.

(IV) Integration of Testing i - The software designed, needs to go through constant testing to find out any error or flaws. (V) Deployment of System: Once the testing is done, the product is deployed in the market or released in the market. (vi) Maintenance: This steps occur after the installation and involves making modifications to the system.

Each phase of the spiral model is divided into Four quadrants of function of all four quadrants are:
Objective determination identify alternative solution: - It is gothered from the customer 1. Desective are identified, elaborated i analyzed:
ii I Identify & Resolve Risk! - All the possible solutions are evaluated in them & selected best possible solution!
(iii) Develop next version of the product: At the end of this stage the next version of the software is available.
version of the software is available. Livit (N) Review and plan for the next phase:-
At this Jage veriew of software from costumers collection a planning for next phase is started.

Requirement engineering pris the process of defining a documenting process of gathering defining service provided by the system. (1) Requirement engineering court of following activities ways used to gain knowledge about the project domain and requirements. The vaious. 1 Reading of domain en include, constumer, stake holder, etc (11) Requirement Specification: This activity is used to produce formal software requirement models. Models used at (ii) Requirements managements: It includes process of analyzing, documenting, Traking, prioritizing and controlling, iv) Requirements vering fication of validation:—

* verification: ensures that the software is correctly implemented. validation: It refers to a different set of task that has been built is tracable to estumer requirements.