

Software Testing Assignment

Module – 1 (Fundamental)

1. What is SDLC

~ A software development life cycle is essentially a series of steps or phases that provide a model for the development and lifecycle management of an application or piece of software.

2. What is software testing?

~ software testing is a process used to identify the correctness completeness and quality of developed computer software

3. What is agile methodology?

~ it is a combination iterative and increment model

Each iteration last about two to four weeks

After the released we check for the feed back of the deployed software

If any enhancement is needed in the project then its done re-released

4. What is SRS

~ a software requirement specification (SRS) is a complete description of the behavior of the system to be developed

It includes a set of use cases that describe all the interactions that the users will have with the software

5. What is oops

~ object oriented programming is way of the programs in organized way

6. Write Basic Concepts of oops

~ 1. Class

2. object

3. inheritance

4. polymorphism

5. encapsulation

6. abstaction

7. What is object

~ object gives the permission to access functionality of class

8. What is class

~ class is a collection of data member and member function

9. What is encapsulation

~ the process wrapping the data in a single unit to secure the data from outside world

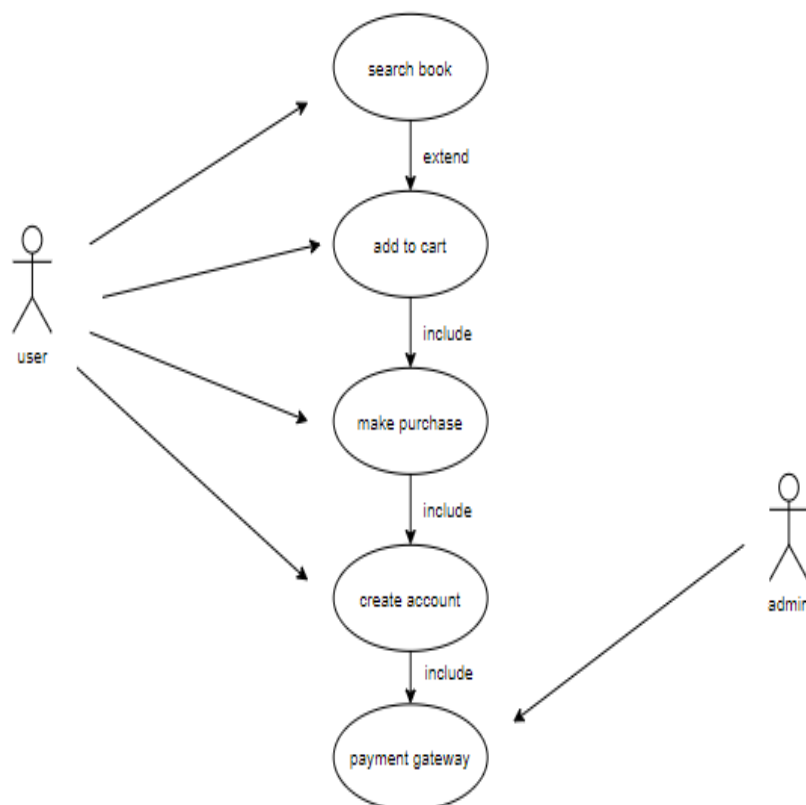
10. What is inheritance

~ making a class from an existing class deriving the attribute of some other class

11. What is polymorphism

~ one name multiple form

12. Draw Usecase on Online book shopping



13. Draw Usecase on online bill payment system (paytm)



14. Write SDLC phases with basic introduction

Requirements collection / Gathering	Establish customer needs
Analysis	Model and specify the Requirement-“what”
Design	Model and specify a solution – “Why”
Implementation	Construct a solution in software
Testing	Validate the solution against the requirements
Maintenance	Repair defects and adapt the solution to the new requirement

15. Explain Phases of the waterfall model

~ Requirement Collection

Analysis

Design

Implementation

Testing

Maintenance

The classical software lifecycle models the software development as a step - by - step “waterfall” between the various development phases

- The waterfall is unrealistic for many reasons especially
- Requirements must be “frozen” too early in the life cycle
- Requirements are validated late

16. Write phases of spiral model

~ the model consists of four phases

Planning

Risk analysis

Engineering

evaluation

17. Write agile manifesto principles

~ individuals and interaction over processes and tools

Working software over comprehensive documentation

Customer collaboration over contract negotiation

Responding to change over following a project plan

18. Explain working methodology of agile model and also write pros and cons.

~ pros:-

Results are obtained early and periodically

Parallel development can be planned

Progress can be measured

Less costly to change the scope/requirements

~ cons:-

More resources may be required

More management attention is required

Not suitable for smaller projects

Management complexity is more

Highly skilled resources are required for risk analysis

19. Draw usecase on Online shopping product using COD.



20. Draw usecase on Online shopping product using payment gateway.

