Module 1 Assignment Software Testing

1. What is SDLC

Software development life cycle

SDLC is a systemic approach to develop software

SDLC is a structure imposed on the development of a software product that define the process for planning, implementation,

Testing, documentation, deployment and maintenance and support.

2. What is software testing?

Testing is a process used to identify the correctness, completeness, and quality of development computer software.

The process consisting of all life cycle activities

Static testing

It can be work without executing of code

Dynamic testing

It can be work execute the code

S.Testing is maintain by ISTQB

International software testing qualifications board

1. What is agile methodology?

Agile methodology is a combination of iterative and incremental process models with focus on process adaptability and customer satisfaction by rapid delivery of working software product.

Agile model believes that every project needs to be handled differently and the existing methods need to be tailored to best suit the project requirements.

Suitable for fixed or changing requirements

It is a Long team project

1. What is SRS?

SRS stands for software requirements specification

it’s complete description of behavior the system to be developed and customer requirement is related to client needs & desires like where the software is be used to how long

Functional requirement and Non-functional requirement

Functional requirement is system desing process

Non-functional requirement is judge the operation of system

1. What is oops

Object oriented programing

It is a methodology to desing a program using class and object

1. Write Basic Concepts of oops

Object

Class

Encapsulation

Inheritance

Polymorphism

Overriding

Overloading

Abstraction

1. What is object

An object represents an individual, identifiable item,

Any entity which has on static numeric.

Ex. One Pen.

1. What is class

Collection of object.

EX. Human body

1. What is encapsulation

Wrapping or binding of data and code together into a single unit

Ex. Capsul

1. What is inheritance

When one object equierd all the properties behavieour of an class Inheritance means that one class inherits the characteristics of another class.

Ex. Grandpernt-Perent-child

1. What is polymorphism

It is Many ways to perfoming oprations

Multipal ways to perfom

Overloading and Overriding

1. Write SDLC phases with basic introduction

There are six phases

Requirements gathering

* Collect customer needs requirement
* Functional and non-functional

Analysis

* Specify the requirements
* What & how method.

Design

* Model related to designing software and contain desing architecture files

Implementation

* Construct a solution in software
* Issues of quality
* Performance
* Critical error remove

Testing

* Validate the solution against the requirements

Maintenance

* Repair defects and adapt the solution to the new requirements

Corrective maintenance

> Identifying and repairing defects

Ex. Whatsapp bugs

Adaptive maintenance

> Existing solution and to New platforms

Ex. Whatsapp web

Perfective maintenance

>implement new requirement

Ex. Whatsapp payment

1. Explain Phases of the waterfall model

Waterfall model is also The classical software lifecycle

software development as a step by step phases.

Requirements collection

Analysis

Design

Implementation

Testing

Maintenance

Waterfall model we can’t go in backward direction

It’s short term project 6 to 7 months.

1. Write phases of spiral model

Spiral model is very widely used in the software industry as its is the natural development process of any product.

For medium to high risk projects

Long term project commitment because of potential changes to economic priorities as the requierments change with time.

Planning ,risk analysis,development

15. Explain working methodology of agile model and also

write Prons and cons.

Agile model believes that every project needs to be handled differently and the existing methods need to be tailored to best suit the project requirements.

Suitable for fixed or changing requirements

Long team project

Prons.

Is a very realistic approach to software development

Little or no planning required

Easy to manage

Gives flexibility to developers

Cons.

An over all plan .an agile leader and agile pm practice is a must without which it will not work.

Not suitable for handling complex dependencies.

More risk of sustainability, maintainability and extensibility.

16 . Draw usecase on online shopping product using cod.

17. usecase on online shop product payment gateway.

18. Draw online book shopping. %3CmxGraphModel%3E%3Croot%3E%3CmxCell%20id%3D%220%22%2F%3E%3CmxCell%20id%3D%221%22%20parent%3D%220%22%2F%3E%3CmxCell%20id%3D%222%22%20value%3D%22%22%20style%3D%22ellipse%3BwhiteSpace%3Dwrap%3Bhtml%3D1%3B%22%20vertex%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20x%3D%22200%22%20y%3D%22300%22%20width%3D%2260%22%20height%3D%2220%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3C%2Froot%3E%3C%2FmxGraphModel%3E

%3CmxGraphModel%3E%3Croot%3E%3CmxCell%20id%3D%220%22%2F%3E%3CmxCell%20id%3D%221%22%20parent%3D%220%22%2F%3E%3CmxCell%20id%3D%222%22%20value%3D%22%22%20style%3D%22ellipse%3BwhiteSpace%3Dwrap%3Bhtml%3D1%3B%22%20vertex%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20x%3D%22200%22%20y%3D%22300%22%20width%3D%2260%22%20height%3D%2220%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3C%2Froot%3E%3C%2FmxGraphModel%3E%3CmxGraphModel%3E%3Croot%3E%3CmxCell%20id%3D%220%22%2F%3E%3CmxCell%20id%3D%221%22%20parent%3D%220%22%2F%3E%3CmxCell%20id%3D%222%22%20value%3D%22%22%20style%3D%22ellipse%3BwhiteSpace%3Dwrap%3Bhtml%3D1%3B%22%20vertex%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20x%3D%22200%22%20y%3D%22300%22%20width%3D%2260%22%20height%3D%2220%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3C%2Froot%3E%3C%2FmxGraphModel%3E

%3CmxGraphModel%3E%3Croot%3E%3CmxCell%20id%3D%220%22%2F%3E%3CmxCell%20id%3D%221%22%20parent%3D%220%22%2F%3E%3CmxCell%20id%3D%222%22%20value%3D%22%22%20style%3D%22ellipse%3BwhiteSpace%3Dwrap%3Bhtml%3D1%3B%22%20vertex%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20x%3D%22200%22%20y%3D%22300%22%20width%3D%2260%22%20height%3D%2220%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3C%2Froot%3E%3C%2FmxGraphModel%3E

%3CmxGraphModel%3E%3Croot%3E%3CmxCell%20id%3D%220%22%2F%3E%3CmxCell%20id%3D%221%22%20parent%3D%220%22%2F%3E%3CmxCell%20id%3D%222%22%20value%3D%22%22%20style%3D%22ellipse%3BwhiteSpace%3Dwrap%3Bhtml%3D1%3B%22%20vertex%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20x%3D%22200%22%20y%3D%22300%22%20width%3D%2260%22%20height%3D%2220%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3C%2Froot%3E%3C%2FmxGraphModel%3E

19. Draw online bill payment system.