What is sdlc?

It is a step by step process to start or develop a new software.it involves a process such as requirement collection, feasibility studies,design,coding,testing,installation,maintainence.

What Is software testing?

It is a process used to identify correctness, completeness and quality of a developed computer software.

Write sdlc phases with basic introduction?

1.requirement collection

2.feasibility studies

3.design

4.coding

5.testing

6.installation

7.maintanence

1.requirement collection: collecting the requirement from the user, it is usually done by business ananlyst,product manager.bussiness analyst from the company will go the customer place and collect the customer collect requirement in business language. And convert business language into software language .business analyst is a bridge between company and customer.

2.feasibility studies: it is done by product analyst, Hr team, financial team, after the requirement collection is over the company will decide whether they have to take the project or not, whether they sufficient resources, sufficient technology ,sufficient labsetup.and if they take up the project it is profit or loss for them.

3.design: it is done by architecture. Two types:

1.high level design: designing main module of the software. Also known as external design.

2.low level design: designing each and every module of software. Also known as internal design.

4.coding: done by sr developer developer and fresher based on low level design the coding is done.

5.testing:it is done by sr tester tester and fresher, after coding the developer will give the software to the tester, the tester will check the quality of the software by entering all the possible inputs to check whether it is working according to the customer requirements or not.

6.installation: after testing is over, site engineer or installation engineer from the company will go to the customer place and set up environment and install the software so the customer can use it for business purpose.

7.maintanence:after installation, the software is been used by the customer for business purpose ,if they find any defect the communicate with company, company person will come and fix the defect without charging to the customer, it is the agreement between the company and the customer.it may extend up to 6 months or 12 months.

What is agile methodology?

It is a step by step process used to develop a software using iterative and incremental process.

1.customers are the main stakeholders.

2.ineach iteration they will be a cross functional teamworking on planning, unit testing, acceptance testing, requirement collection, module designing..

What is srs?

It means system required specification.BA from company will collect the customer requirement in business language and convert the business language into software language. And give the requirement to the developer and test engineer. The test engineer will review the crs and write acceptance test case and parallelly the developer will convert the crs into srs.

What is oops?

It is the object oriented programming language.

What is object?

.it is the instances of the class.

.it create memory for the class

.it access the whole property of the class except private.

What is class?

.it is the combination of the data members and the member function with its behavior.

What is encapsulation?

.hiding data, wrapping the entire data inti single unit.

.private both the data members and member function.

What is inheritance?

Properties of parent class is extended to child class.

.main purpose is reusability and extendibility.

They are 5 types

.single

.multilevel

.hierarchical

.multiple

.hybrid

What is polymorphism?

Ability to one name having different forms.

.many forms or multiple forms.

Explain phases of the waterfall model?

.requirement collection

.feasibility studies

.design

.coding

.testing

.installation

.maintenance.

Explain working methodology of agile model and also write pros and cons?

.Agile is used to develop the software using iterative and incremental method

.customer are the main stakeholders

.in each iteration they is cross functional team working on planning,desiging,coding,unit testing, acceptance testing.

Pros:

.it works well for long and ongoing project.

.resources requirement is minimum.

.requirement changes is allowed.

.document are minimum

Cons

.depends on the customer interaction.

.transfer technology to new team it is quite critical bocos of minimum documents.

Write the phases for spiral model?

.requirement collection

Feasibility studies

Design

Coding

Testing

Customer review

Customer approval

Maintenance

What is functional testing?

Updating the database on the server.

What is nonfunctional testing?

Constrain on system.

What is 7 key principal?

.testing shows the presence of defects

.exhaustive testing is impossible

.early testing

.testing is content dependent

Absence of error fallacy

Defect cascading

Pesticide paradox.

1.while testing we can find the bug, so testing will show the presence of defects.

2.if the time is less and defect is more. The developer will categized the defect in different types:

.assign status

.postpone status.

.won’t fix status

3.testing should be done as early as possible in each and every development stages of software

4.testing is highly content dependent, it will be different for different content.

5.according to parato principle 80% of defect is present in 20% of the module.

6.if we use same test case again and again it will tough to find new defects, so we have to write new test case to find the defects

7.even if they is no error in the software, it is not suitable for the customer ,use as it is not meeting the customer requirement.

Difference between validation and verification?

1.verifying CRS,SRS,HLD,LLD as they are working as per the customer requirement or not, it is done by the test engineer .it is done before the software is developed, it is also known as static testing

2.verifying the software by executing the test case, done by test enginner.it is done after the software is developed.it is also known as dynamic testing.

.use case for online shopping for book?

.select the online shopping site.

Usecase for onlineshopping of book?.

.login

.add category

.add item

Manage item

Manage order

Registration

View item

Make order

Make payment

Change password

Usecase to pay online billpayment

Download paytm application

After getting verified,click on recharge and pay bills

Next ,click on electricity

Select your respective state and electricity board

Enter your customer id number and click on proceed .you can check the sample electricity bill to know where to find the customer id number.

Choose online payment mode

You will be notified after successful payment of your electricity bill

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