

COMPUTER SALES AND SERVICE SYSTEM

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PROJECT ON COMPUTER SALES AND SERVICE SYSTEM

INTRODUCTION

The **Computer sales and service System** is a software used for computer sale and computer service by the client.

OBJECTIVES OF THE PROJECT

The objective of this project is to let the students apply the programming knowledge into a real-world situation/problem and exposed the students how programming skills helps in developing a good software.

- Write programs utilizing modern software tools.
- Apply object oriented programming principles effectively when developing small to medium sized projects.
- Write effective procedural code to solve small to medium sized problems.
- Students will demonstrate a breadth of knowledge in computer science, as exemplified in the areas of systems, theory and software development.
- Students will demonstrate ability to conduct a research or applied Computer Science project, requiring writing and presentation skills which exemplify scholarly style in computer science.

PROPOSED SYSTEM

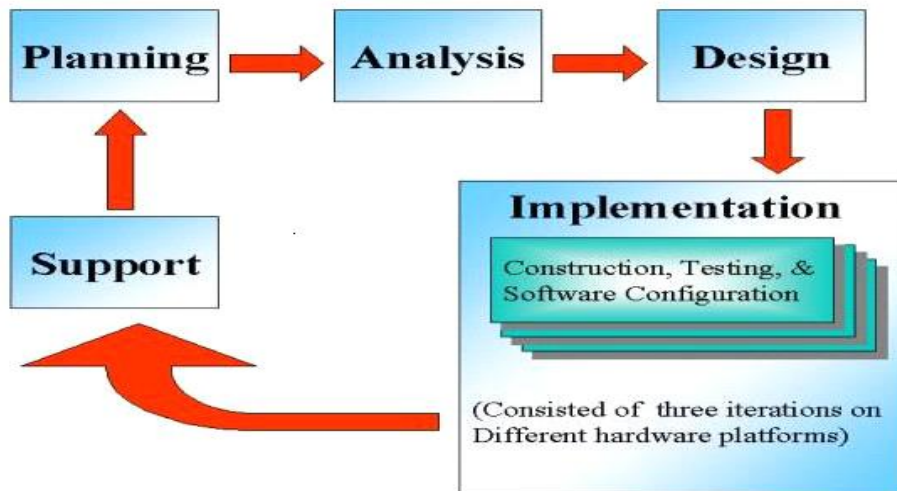
Today one cannot afford to rely on the fallible human beings of be really wants to stand against today's merciless competition where not to wise saying "to err is human" no longer valid, it's outdated to rationalize your mistake. So, to keep pace with time, to bring about the best result without malfunctioning and greater efficiency so to replace the unending heaps of flies with a much sophisticated hard disk of the computer.

One has to use the data management software. Software has been an ascent in atomization various organisations. Many software products working are now in markets, which have helped in making the organizations work easier and efficiently. Data management initially had to maintain a lot of ledgers and a lot of paper work has to be done but now software product on this organization has made their work faster and easier. Now only this software has to be loaded on the computer and work can be done.

This prevents a lot of time and money. The work becomes fully automated and any information regarding the organization can be obtained by clicking the button. Moreover, now it's an age of computers of and automating such an organization gives the better look.

SYSTEM DEVELOPMENT LIFE CYCLE (SDLC)

The System Development Life Cycle as Used in the Construction of the Server Appliance



The systems development life cycle is a project management technique that divides complex projects into smaller, more easily managed segments or phases. Segmenting projects allows managers to verify the successful completion of project phases before allocating resources to subsequent phases.

Software development projects typically include initiation, planning, design, development, testing, implementation, and maintenance phases. However, the phases may be divided differently depending on the organization involved.

For example, initial project activities might be designated as request, requirements-definition, and planning phases, or initiation, concept-development, and planning phases. End users of the system under development should be involved in reviewing the output of each phase to ensure the system is being built to deliver the needed functionality.

PHASES OF SYSTEM DEVELOPMENT LIFE CYCLE

INITIATION PHASE

The Initiation Phase begins when a business sponsor identifies a need or an opportunity.

The purpose of the Initiation Phase is to:

- Identify and validate an opportunity to improve business accomplishments of the organization or a deficiency related to a business need.
- Identify significant assumptions and constraints on solutions to that need.
- Recommend the exploration of alternative concepts and methods to satisfy the need including questioning the need for technology, i.e., will a change in the business process offer a solution?
- Assure executive business and executive technical sponsorship. The Sponsor designates a Project Manager and the business need is documented in a Concept Proposal. The Concept Proposal includes information about the business process and the relationship to the Agency/Organization.
- Infrastructure and the Strategic Plan. A successful Concept Proposal results in a Project Management Charter which outlines the authority of the project manager to begin the project.

Careful oversight is required to ensure projects support strategic business objectives and resources are effectively implemented into an organization's enterprise architecture. The initiation phase begins when an opportunity to add, improve, or correct a system is identified and formally requested through the presentation of a business case. The business case should, at a minimum, describe a proposal's purpose, identify expected benefits, and explain how the proposed system supports one of the organization's business strategies. The business case should also identify alternative solutions and detail as many informational, functional, and network requirements as possible.

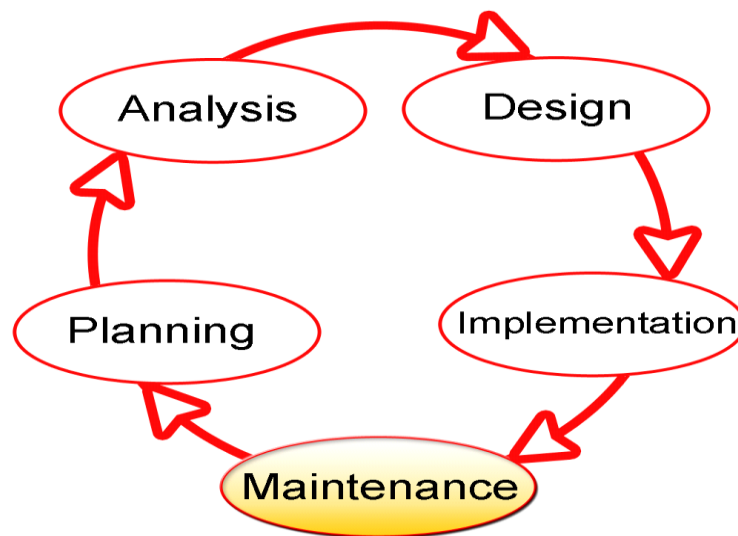
SYSTEM CONCEPT DEVELOPMENT PHASE

The System Concept Development Phase begins after a business need or opportunity is validated by the Agency/Organization Program Leadership and the Agency/Organization CIO.

The purpose of the System Concept Development Phase is to:

- Determine the feasibility and appropriateness of the alternatives.
- Identify system interfaces.
- Identify basic functional and data requirements to satisfy the business need.
- Establish system boundaries; identify goals, objectives, critical success factors, and performance measures.
- Evaluate costs and benefits of alternative approaches to satisfy the basic functional requirements
- Assess project risks
- Identify and initiate risk mitigation actions, andDevelop high-level technical architecture, process models, data models, and a concept of operations. This phase explores potential technical solutions within the context of the business need.
- It may include several trade-off decisions such as the decision to use COTS software products as opposed to developing custom software or reusing software components, or the decision to use an incremental delivery versus a complete, onetime deployment.
- Construction of executable prototypes is encouraged to evaluate technology to support the business process. The System Boundary Document serves as an important reference document to support the Information Technology Project Request (ITPR) process.
- The ITPR must be approved by the State CIO before the project can move forward.

PICTORIAL REPRESENTATION OF SDLC:



PLANNING PHASE

The planning phase is the most critical step in completing development, acquisition, and maintenance projects. Careful planning, particularly in the early stages of a project, is necessary to coordinate activities and manage project risks effectively. The depth and formality of project plans should be commensurate with the characteristics and risks of a given project. Project plans refine the information gathered during the initiation phase by further identifying the specific activities and resources required to complete a project.

A critical part of a project manager's job is to coordinate discussions between user, audit, security, design, development, and network personnel to identify and document as many functional, security, and network requirements as possible. During this phase, a plan is developed that documents the approach to be used and includes a discussion of methods, tools, tasks, resources, project schedules, and user input. Personnel assignments, costs, project schedule, and target dates are established.

A Project Management Plan is created with components related to acquisition planning, configuration management planning, quality assurance planning, concept of operations, system security, verification and validation, and systems engineering management planning.

REQUIREMENTS ANALYSIS PHASE

This phase formally defines the detailed functional user requirements using high-level requirements identified in the Initiation, System Concept, and Planning phases. It also delineates the requirements in terms of data, system performance, security, and maintainability requirements for the system. The requirements are defined in this phase to a level of detail sufficient for systems design to proceed. They need to be measurable, testable, and relate to the business need or opportunity identified in the Initiation Phase. The requirements that will be used to determine acceptance of the system are captured in the Test and Evaluation Master Plan.

The purposes of this phase are to:

- Further define and refine the functional and data requirements and document them in the Requirements Document,
- Complete business process reengineering of the functions to be supported (i.e., verify what information drives the business process, what information is generated, who generates it, where does the information go, and who processes it),
- Develop detailed data and process models (system inputs, outputs, and the process.
- Develop the test and evaluation requirements that will be used to determine acceptable system performance.

DESIGN PHASE

The design phase involves converting the informational, functional, and network requirements identified during the initiation and planning phases into unified design specifications that developers use to script programs during the development phase. Program designs are constructed in various ways. Using a top-down approach, designers first identify and link major program components and interfaces, then expand design layouts as they identify and link smaller subsystems and connections. Using a bottom-up approach, designers first identify and link minor program components and interfaces, then expand design layouts as they identify and link larger systems and connections. Contemporary design techniques often use prototyping tools that

build mock-up designs of items such as application screens, database layouts, and system architectures. End users, designers, developers, database managers, and network administrators should review and refine the prototyped designs in an iterative process until they agree on an acceptable design. Audit, security, and quality assurance personnel should be involved in the review and approval process. During this phase, the system is designed to satisfy the functional requirements identified in the previous phase. Since problems in the design phase could be very expensive to solve in the later stage of the software development, a variety of elements are considered in the design to mitigate risk. These include:

- Identifying potential risks and defining mitigating design features.
- Performing a security risk assessment.
- Developing a conversion plan to migrate current data to the new system.
- Determining the operating environment.
- Defining major subsystems and their inputs and outputs.
- Allocating processes to resources.
- Preparing detailed logic specifications for each software module. The result is a draft System Design Document which captures the preliminary design for the system.
- Everything requiring user input or approval is documented and reviewed by the user. Once these documents have been approved by the Agency CIO and Business Sponsor, the final System Design Document is created to serve as the Critical/Detailed Design for the system.
- This document receives a rigorous review by Agency technical and functional representatives to ensure that it satisfies the business requirements. Concurrent with the development of the system design, the Agency Project Manager begins development of the Implementation Plan, Operations and Maintenance Manual, and the Training Plan.

DEVELOPMENT PHASE

The development phase involves converting design specifications into executable programs. Effective development standards include requirements that programmers and other project participants discuss design specifications before programming begins. The procedures

help ensure programmers clearly understand program designs and functional requirements. Programmers use various techniques to develop computer programs. The large transaction oriented programs associated with financial institutions have traditionally been developed using procedural programming techniques. Procedural programming involves the line-by-line scripting of logical instructions that are combined to form a program. Effective completion of the previous stages is a key factor in the success of the Development phase. The Development phase consists of:

- Translating the detailed requirements and design into system components.
- Testing individual elements (units) for usability.
- Preparing for integration and testing of the IT system.

INTEGRATION AND TEST PHASE

- Subsystem integration, system, security, and user acceptance testing is conducted during the integration and test phase. The user, with those responsible for quality assurance, validates that the functional requirements, as defined in the functional requirements document, are satisfied by the developed or modified system. OIT Security staff assess the system security and issue a security certification and accreditation prior to installation/implementation.

Multiple levels of testing are performed, including:

- Testing at the development facility by the contractor and possibly supported by end users
- Testing as a deployed system with end users working together with contract personnel
- Operational testing by the end user alone performing all functions. Requirements are traced throughout testing, a final Independent Verification & Validation evaluation is performed and all documentation is reviewed and accepted prior to acceptance of the system.

IMPLEMENTATION PHASE

This phase is initiated after the system has been tested and accepted by the user. In this phase, the system is installed to support the intended business functions. System performance is compared to performance objectives established during the planning phase. Implementation includes user notification, user training, installation of hardware, installation of software onto production computers, and integration of the system into daily work processes. This phase continues until the system is operating in production in accordance with the defined user requirements.

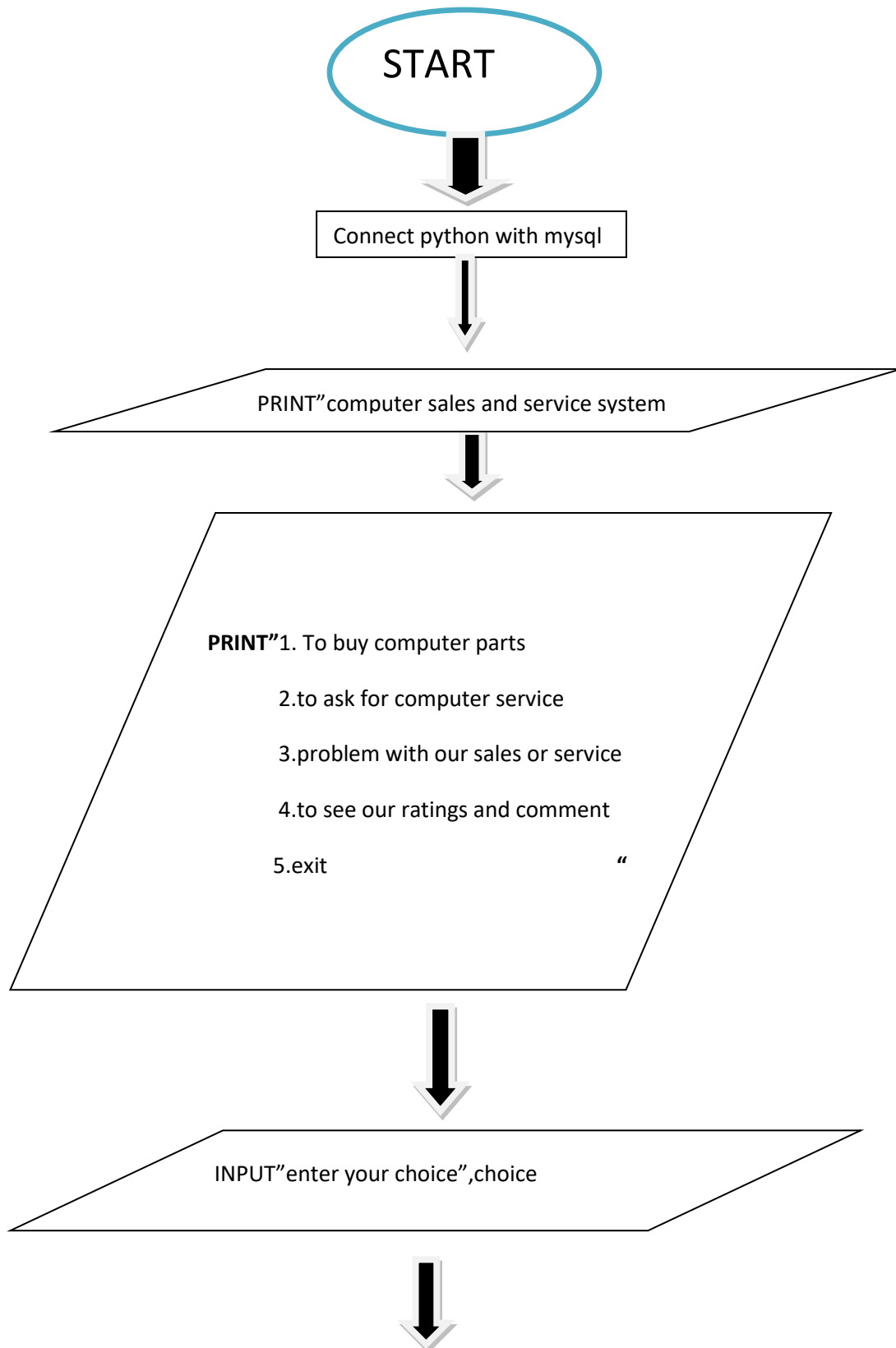
OPERATIONS AND MAINTENANCE PHASE

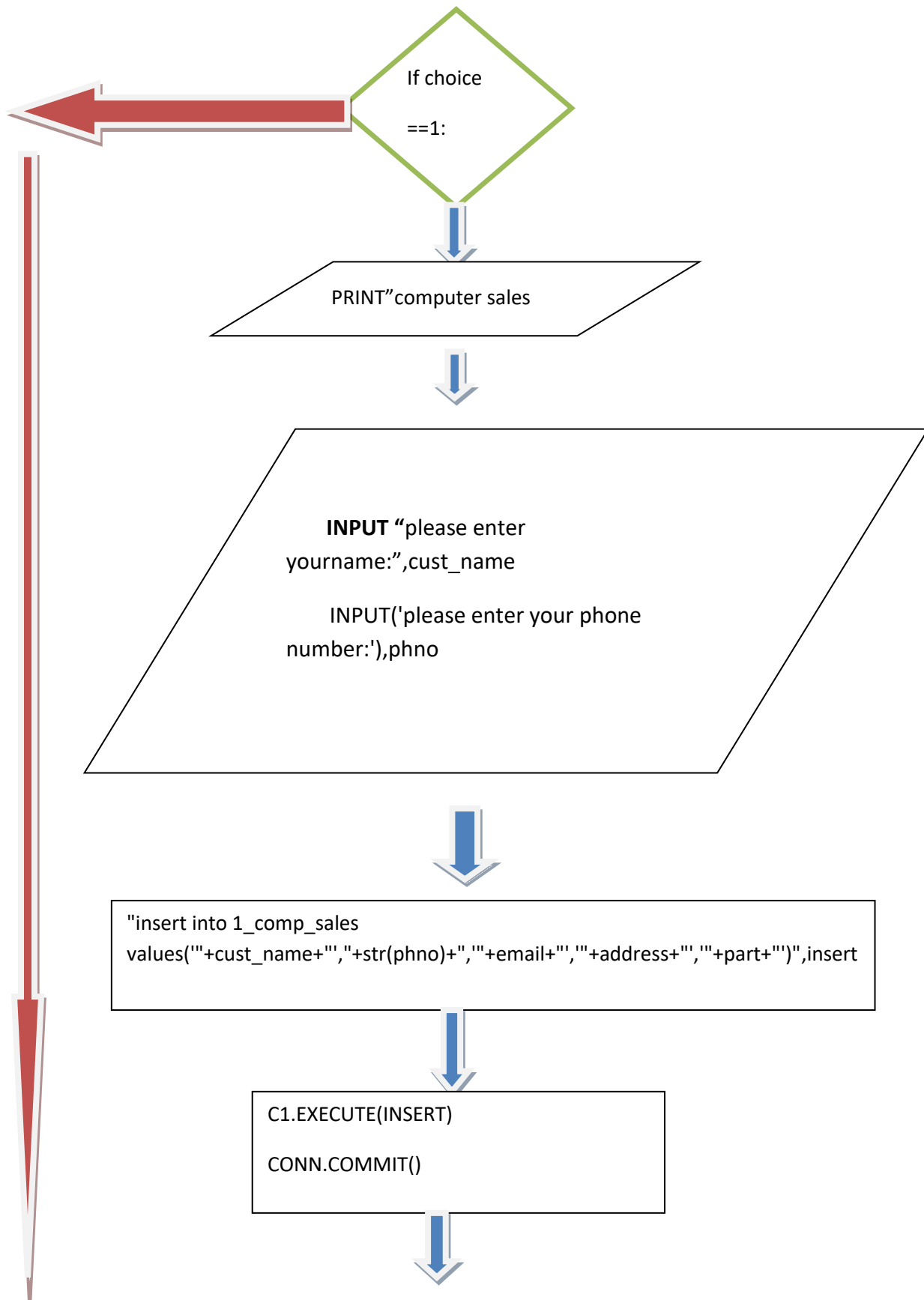
The system operation is ongoing. The system is monitored for continued performance in accordance with user requirements and needed system modifications are incorporated. Operations continue as long as the system can be effectively adapted to respond to the organization's needs. When modifications or changes are identified, the system may reenter the planning phase.

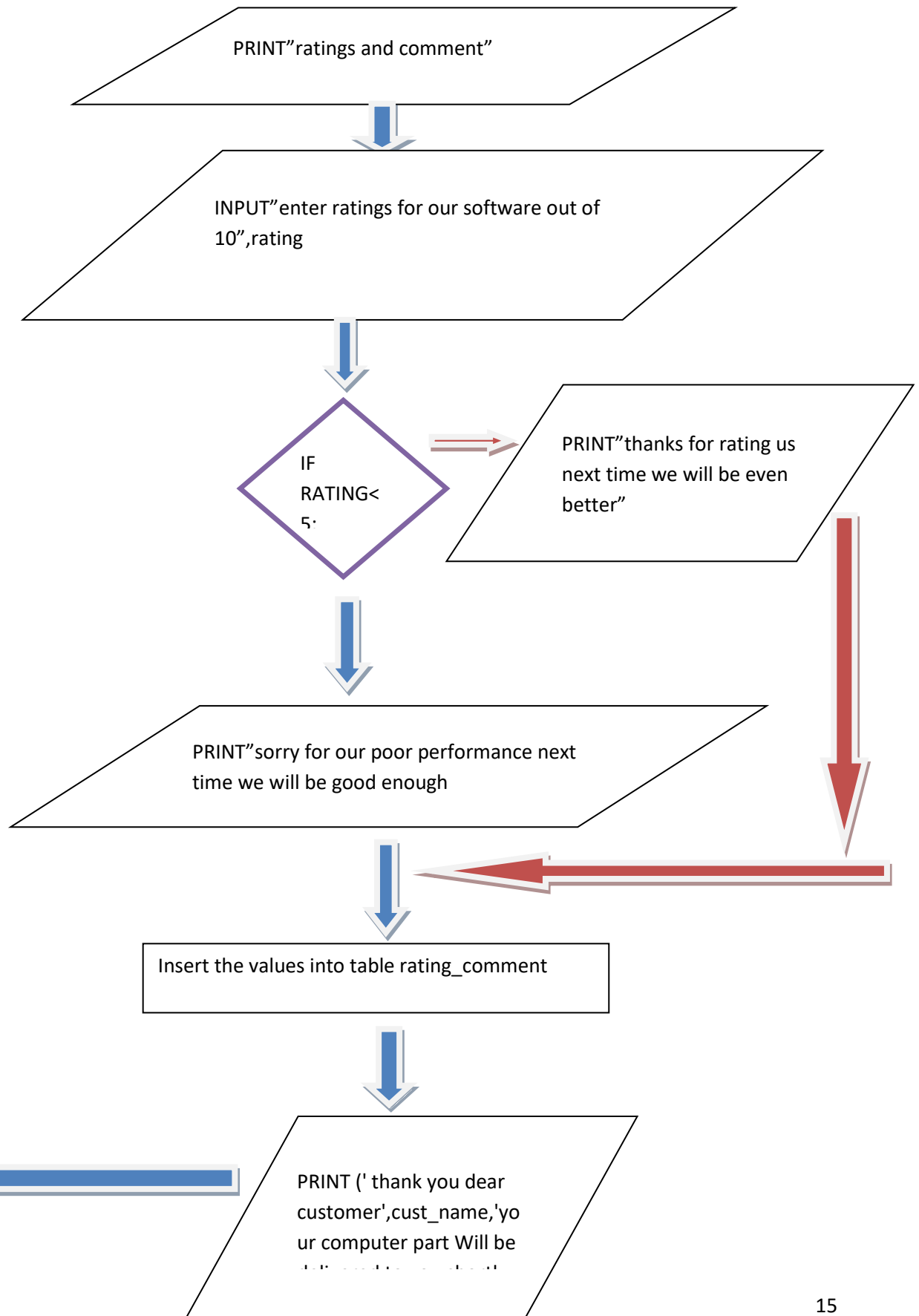
The purpose of this phase is to:

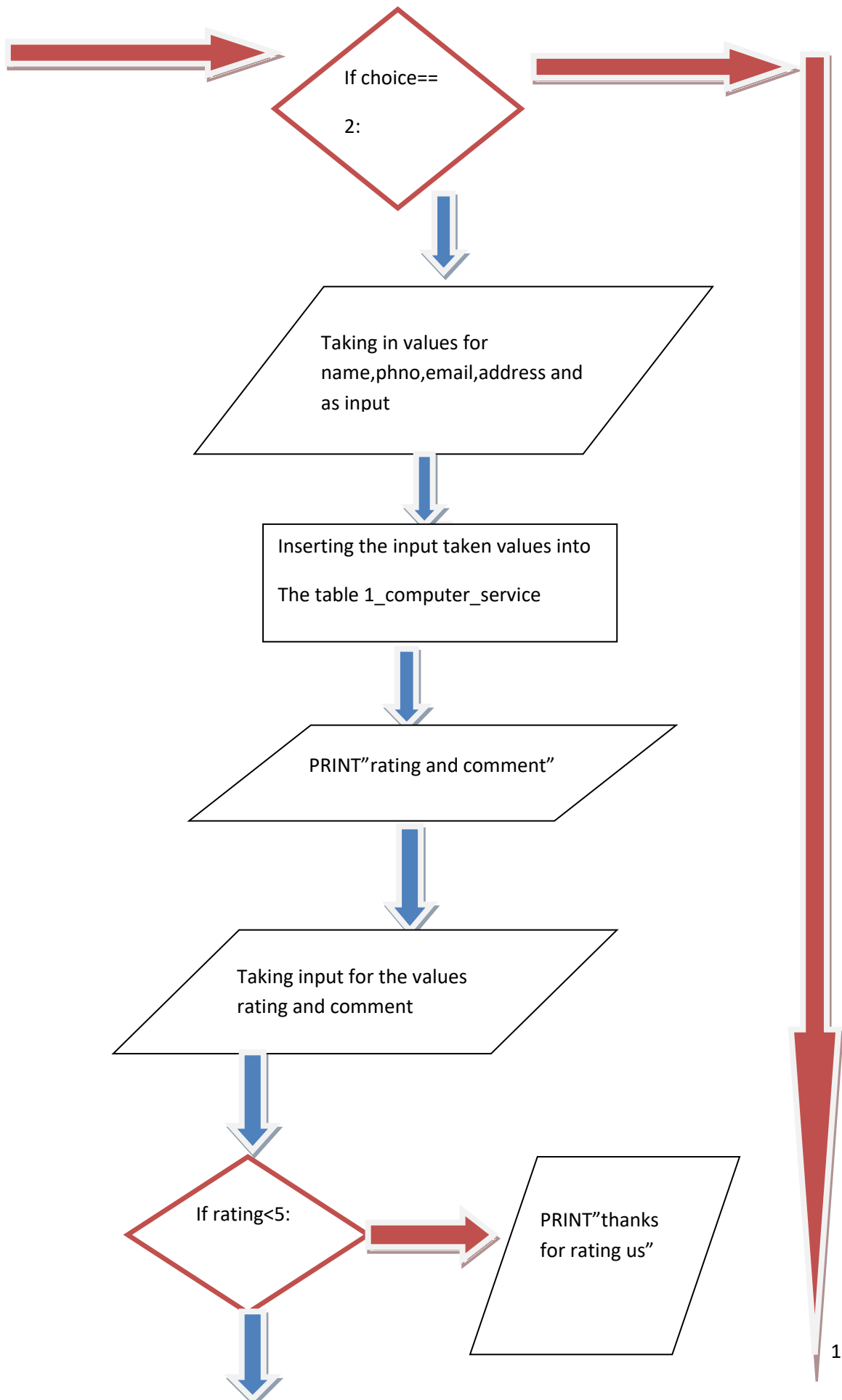
- Operate, maintain, and enhance the system.
- Certify that the system can process sensitive information.
- Conduct periodic assessments of the system to ensure the functional requirements continue to be satisfied.
- Determine when the system needs to be modernized, replaced, or retired.

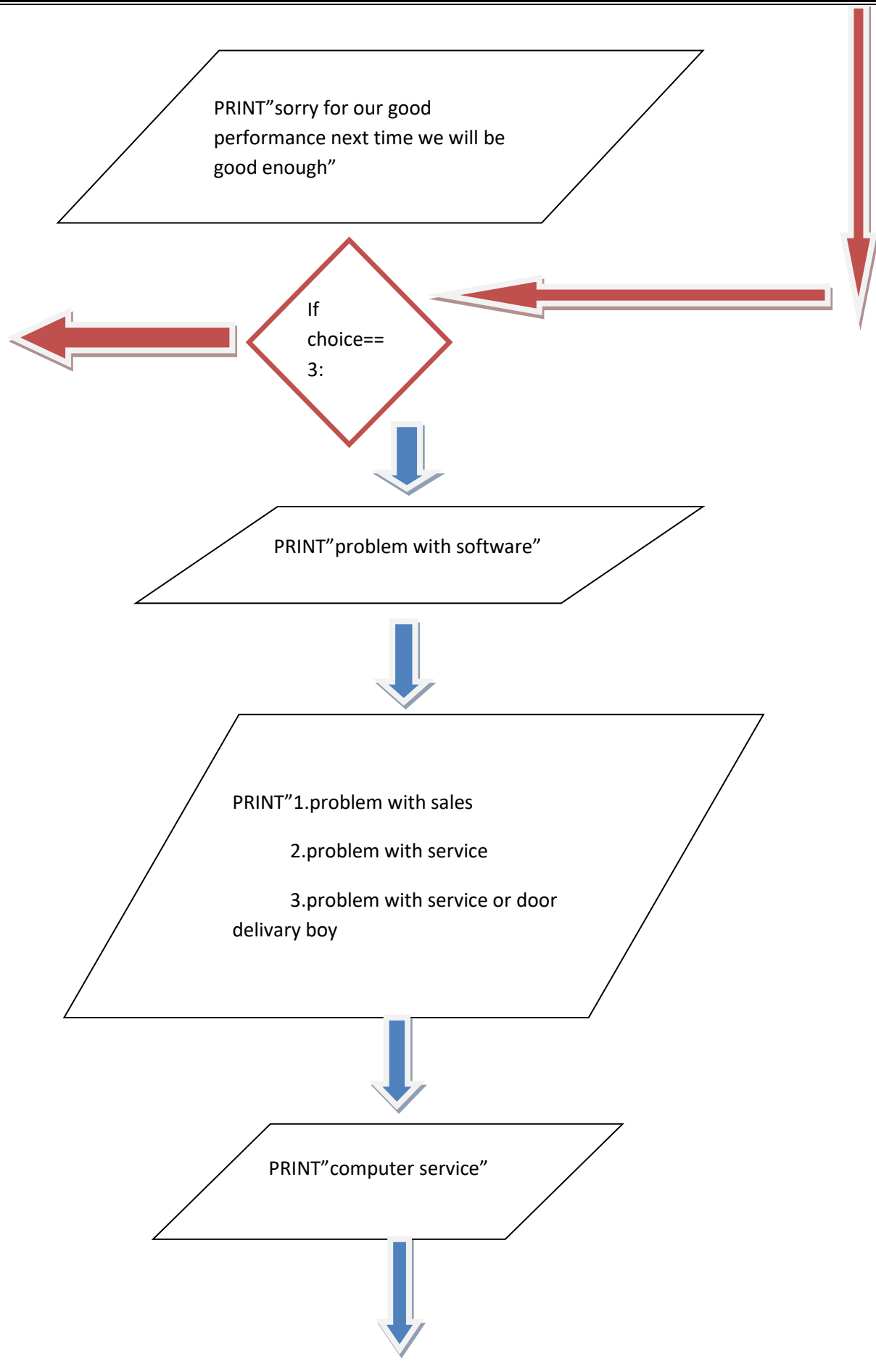
Flow chart











Inputs the choice,a

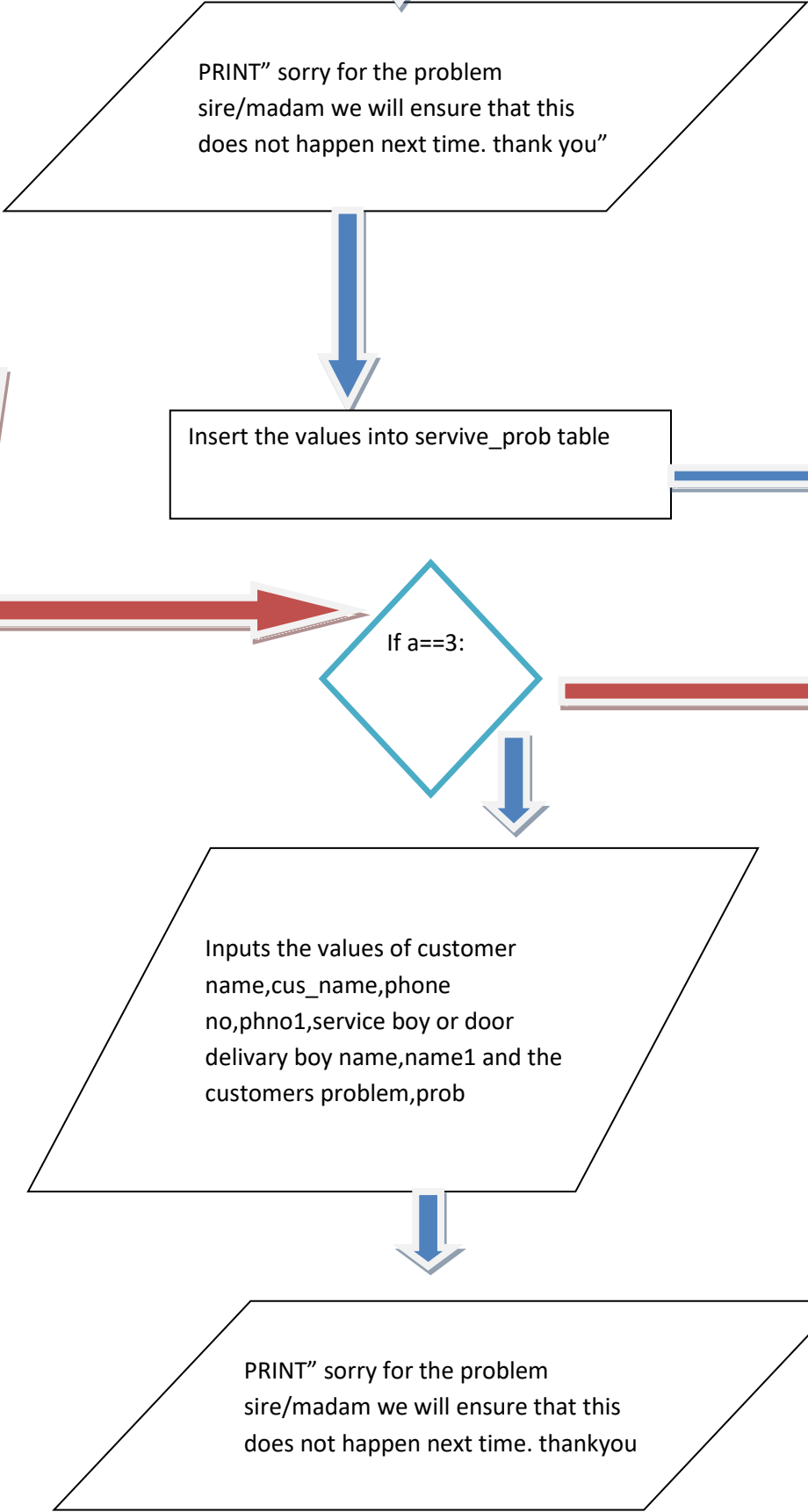
Inputs the values of customer
name,cus_name,phone
no,phno1,sales boy or door
delivery boy name,sa_name and
the customers problem,prob

PRINT" sorry for the problem
sire/madam we will ensure
that this does not happen next
time. thank you"

Inserts the values into
sales_prob table

IF a==2:

Inputs the values of customer
name,cus_name,phone
no,phno1,service boy or door



```
graph TD; Start([Start]) --> Print1[/PRINT " sorry for the problem  
sire/madam we will ensure that this  
does not happen next time. thank you"/]; Print1 --> Insert[Insert the values into serve_prob table]; Insert --> If{If a==3:}; If --> Print2[/PRINT " sorry for the problem  
sire/madam we will ensure that this  
does not happen next time. thank you"/]; If --> End([End]);
```

PRINT" sorry for the problem
sire/madam we will ensure that this
does not happen next time. thank you"

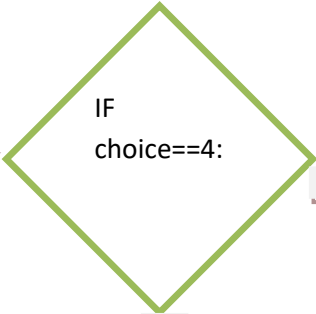
Insert the values into serve_prob table

If a==3:

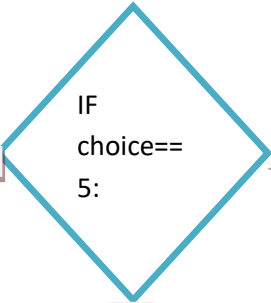
Inputs the values of customer
name,cus_name,phone
no,phno1,service boy or door
delivery boy name,name1 and the
customers problem,prob

PRINT" sorry for the problem
sire/madam we will ensure that this
does not happen next time. thankyou

Inserts the values into sb_prob table



Display rating_comment
table



STOP

SOURCE CODE

```
import mysql.connector as sql
conn=sql.connect(host="localhost",user="root",passwd="manager",database="test")
if conn.is_connected():
    print('successfully connected')
c1=conn.cursor()
c1.execute('use test')
c1=conn.cursor()
print("")
print("")
print('    COMPUTER SALES AND SERVICE SYSTEM')
print("")
print("")
print('1.to buy computer parts')
print('2.to ask for computer service')
print('3.problem with our sales or service')
print('4.to see various comments and ratings on our software')
print('5.exit')
print("")
choice=int(input('enter your choice:'))
if choice==1:
    print("")
    print('    COMPUTER SALES')
    print("")
    cust_name=str(input('please enter your name:'))
    phno=int(input('please enter your phone number:'))
    email=str(input('please enter your e-mail id:'))
    address=str(input('please enter your address:'))
    part=str(input('please enter the type of computer part you need:'))
```

```

insert="insert into 1_comp_sales
values("+cust_name+"",str(phno)+","",email+"",address+"",part+"")"
c1.execute(insert)
conn.commit()
print("")
print('  RATING AND COMMENT')
rating=int(input('please enter the ratings out of 10 for our software :'))
comment=str(input('please comment on our software :'))
print("")
print("")
print("")
if rating<5:
    print('sorry for our poor performance next time we will be good enough')
else:
    print('thanks for rating us next time we will be even better')
insert1="insert into rating_comment
values("+str(phno)+","",address+"",email+"",str(rating)+"",comment+"")"
c1.execute(insert1)
conn.commit()
print("")
print('      thank you dear customer',cust_name,'your computer part Will be delivered to
you shortly and you can pay cash to the delivery boy')

if choice==2:
    print("")
    print('  COMPUTER SERVICE')
    print("")
    name=str(input('please enter your name:'))
    phno=int(input('please enter your phone number:'))
    email=str(input('please enter your e-mail id:'))
    address=str(input('please enter your residential address:'))

```

```

service=str(input('please enter the service you want:'))

insert="insert into 1_comp_service
values("+name+", "+str(phno)+", "+email+", "+address+", "+service+ ")"
c1.execute(insert)
conn.commit()
print("")
print("")
print('    RATINGS AND COMMENT')
rating=int(input('please enter the ratings out of 10 :'))
comment=str(input('please comment on our software :'))
print("")
if rating<5:
    print('sorry for our poor performance next time we will be good enough')
else:
    print('thanks for rating us next time we will be even better')

insert1="insert into rating_comment
values("+str(phno)+", "+email+", "+address+", "+str(rating)+", "+comment+ ")"
c1.execute(insert1)
conn.commit()
print("")
print("")
print('    thank you dear custmer',name,'the service you asked will be done to your
computer parts shortly and cash on delivery')
if choice==3:
    print("")
    print('    PROBLEM WITH SOFTWARE')
    print("")
    print("")
    print('1.problem with sales')

```

```

print('2.problem with service')
print('3.problem with dor delivery boy or service boy')
print("")
a=int(input('please enter your choice:'))
print("")
if a==1:
    cus_name=str(input('please enter your name:'))
    phno1=int(input('please enter your phone no:'))
    sa_name=str(input('please enter the name of the sales boy whom you dealt with:'))
    prob=str(input('please enter your problem:'))
    print("")
    print('    sorry for the problem sire/madam we will ensure that this does not happen
next time thank you')
    insert2="insert into sales_prob
values('"+cus_name+"','"+str(phno1)+"','"+sa_name+"','"+prob+"')"
    c1.execute(insert2)
    conn.commit()
if a==2:
    cus_name=str(input('please enter your name:'))
    phno1=int(input('please enter your phone no:'))
    se_name=str(input('please enter the name of the service boy you dealt with:'))
    prob=str(input('please enter the problem you face:'))
    print("")
    print('    sorry for the problem sire/madam we will ensure that this does not happen
next time . thank you')
    insert2="insert into servive_prob
values('"+cus_name+"','"+str(phno1)+"','"+se_name+"','"+prob+"')"
    c1.execute(insert2)
    conn.commit
if a==3:
    cus_name=str(input('please enter your name:'))

```



```

phno1=int(input('please enter your phone no:'))
name1=str(input('please enter the boys name:'))
prob=str(input('please enter the problem you have faced'))
insert2="insert into sb_prob values('"+cus_name+"','"+str(phno1)+"','"+name1+"','"+prob+"'"
c1.execute(insert2)
conn.commit()
print("")
print('      sorry for the promlem sire/madame we see to it that the boy gets penalized
severely.thank you')
if choice==4:
    l="select * from rating_comment"
    c1.execute(l)
    a= c1.fetchone()

```

OUTPUT

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:\Lab softwares\vizal computer project\computer sales and service system.py
successfully connected

COMPUTER SALES AND SERVICE SYSTEM

1.to buy computer parts
2.to ask for computer service
3.problem with our sales or service
4.to see various comments and ratings on our software
5.exit

enter your choice:1

COMPUTER SALES

please enter your name:vizal
please enter your phone number:9488167335
please enter your e-mail id:vizal6025@gmail.com
please enter your address:152h salem road namakkal
please enter the type of computer part you need:a qwerty keyboard

RATING AND COMMENT
please enter the ratings out of 10 for our software :10
please comment on our software :its nice

thanks for rating us next time we will be even better

thank you dear customer vizal your computer part Will be delivered to you shortly and
you can pay cash to the delivery boy
>>> |
```

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:\Lab softwares\vizal computer project\computer sales and service system.py
successfully connected

COMPUTER SALES AND SERVICE SYSTEM

1.to buy computer parts
2.to ask for computer service
3.problem with our sales or service
4.to see various comments and ratings on our software
5.exit

enter your choice:2

COMPUTER SERVICE

please enter your name:gokul
please enter your phone number:9443333199
please enter your e-mail id:gokulkumar48@gmail.com
please enter your residential address:272gla ezhil nagar,namakkal
please enter the service you want:to repair my cpu

RATINGS AND COMMENT
please enter the ratings out of 10 :6
please comment on our software :its commendable

thanks for rating us next time we will be even better

thank you dear custmer gokul the service you asked will be done to your computer parts s
hortly and cash on delivery
>>>
```

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:\Lab softwares\vizal computer project\computer sales and service system.py
successfully connected

      COMPUTER SALES AND SERVICE SYSTEM

1.to buy computer parts
2.to ask for computer service
3.problem with our sales or service
4.to see various comments and ratings on our software
5.exit

enter your choice:3

      PROBLEM WITH SOFTWARE

1.problem with sales
2.problem with service
3.problem with dor delivery boy or service boy

please enter your choice:1

please enter your name:ankit
please enter your phone no:7654390876
please enter the name of the sales boy whom you dealt with:rajesh
please enter your problem:he is so phathatic in his work

      sorry for the problem sire/madam we will ensure that this does not happen next time thank you
>>> |
```

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:\Lab softwares\vizal computer project\computer sales and service system.py
successfully connected

      COMPUTER SALES AND SERVICE SYSTEM

1.to buy computer parts
2.to ask for computer service
3.problem with our sales or service
4.to see various comments and ratings on our software
5.exit

enter your choice:3

      PROBLEM WITH SOFTWARE

1.problem with sales
2.problem with service
3.problem with dor delivery boy or service boy

please enter your choice:2

please enter your name:ranganatha
please enter your phone no:5454673453
please enter the name of the service boy you dealt with:ankit
please enter the problem you face:he was kinky

      sorry for the problem sire/madam we will ensure that this does not happen next time . thank
you
>>> |
```

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:\Lab softwares\vizal computer project\computer sales and service system.py
successfully connected

COMPUTER SALES AND SERVICE SYSTEM

1.to buy computer parts
2.to ask for computer service
3.problem with our sales or service
4.to see various comments and ratings on our software
5.exit

enter your choice:3

PROBLEM WITH SOFTWARE

1.problem with sales
2.problem with service
3.problem with dor delivery boy or service boy

please enter your choice:3

please enter your name:ranganathan
please enter your phone no:4343728635
please enter the boys name:rajesh
please enter the problem you have facedhe was doing work as if he is forced to. we didnt like him

sorry for the promlem sire/madame we see to it that the boy gets penalized severely.thank y
ou
>>>
```

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:\Lab softwares\vizal computer project\computer sales and service system.py
successfully connected

COMPUTER SALES AND SERVICE SYSTEM

1.to buy computer parts
2.to ask for computer service
3.problem with our sales or service
4.to see various comments and ratings on our software
5.exit

enter your choice:4
(9443333199, '272gia ezhil nagar,namakkal', 'gokulkumar4@gmail.com', 10, 'its awesome')
>>> |
```

TESTING

Software Testing is an empirical investigation conducted to provide stakeholders with information about the quality of the product or service under test[1] , with respect to the context in which it is intended to operate. Software Testing also provides an objective, independent view of the software to allow the business to appreciate and understand the risks at implementation of the software. Test techniques include, but are not limited to, the process of executing a program or application with the intent of finding software bugs.

It can also be stated as the process of validating and verifying that a software program/application/product meets the business and technical requirements that guided its design and development, so that it works as expected and can be implemented with the same characteristics. Software Testing, depending on the testing method employed, can be implemented at any time in the development process, however the most test effort is employed after the requirements have been defined and coding process has been completed.

TESTING METHODS

Software testing methods are traditionally divided into black box testing and white box testing. These two approaches are used to describe the point of view that a test engineer takes when designing test cases.

BLACK BOX TESTING

Black box testing treats the software as a "black box," without any knowledge of internal implementation. Black box testing methods include: equivalence partitioning, boundary value analysis, all-pairs testing, fuzz testing, model-based testing, traceability matrix, exploratory testing and specification-based testing.

SPECIFICATION-BASED TESTING

Specification-based testing aims to test the functionality of software according to the applicable requirements.[16] Thus, the tester inputs data into, and only sees the output from, the test object. This level of testing usually requires thorough test cases to be provided to the tester,

who then can simply verify that for a given input, the output value (or behaviour), either "is" or "is not" the same as the expected value specified in the test case. Specification-based testing is necessary, but it is insufficient to guard against certain risks

ADVANTAGES AND DISADVANTAGES

The black box tester has no "bonds" with the code, and a tester's perception is very simple: a code must have bugs. Using the principle, "Ask and you shall receive," black box testers find bugs where programmers don't. But, on the other hand, black box testing has been said to be "like a walk in a dark labyrinth without a flashlight," because the tester doesn't know how the software being tested was actually constructed.

That's why there are situations when (1) a black box tester writes many test cases to check something that can be tested by only one test case, and/or (2) some parts of the back end are not tested at all. Therefore, black box testing has the advantage of "an unaffiliated opinion," on the one hand, and the disadvantage of "blind exploring," on the other.

WHITE BOX TESTING

White box testing, by contrast to black box testing, is when the tester has access to the internal data structures and algorithms (and the code that implement these)

Types of white box testing:-

The following types of white box testing exist:

- api testing - Testing of the application using Public and Private APIs.
- Code coverage - creating tests to satisfy some criteria of code coverage.

For example, the test designer can create tests to cause all statements in the program to be executed at least once.

- fault injection methods.
- mutation testing methods.
- static testing - White box testing includes all static testing.

CODE COMPLETENESS EVALUATION

White box testing methods can also be used to evaluate the completeness of a test suite that was created with black box testing methods. This allows the software team to examine parts of a system that are rarely tested and ensures that the most important function points have been tested.

Two common forms of code coverage are:

- Function Coverage: Which reports on functions executed and
- Statement Coverage: Which reports on the number of lines executed to complete the test.

They both return coverage metric, measured as a percentage

HARDWARE AND SOFTWARE REQUIREMENTS

I. OPERATING SYSTEM	:	WINDOWS 7 AND ABOVE
II. PROCESSOR	:	PENTIUM(ANY) OR AMD ATHALON(3800+- 4200+ DUAL CORE)
III. MOTHERBOARD	:	1.845 OR 915,995 FOR PENTIUM 0R MSI K9MM-V VIA K8M800+8237R PLUS CHIPSET FOR AMD ATHALON
IV. RAM	:	512MB+
V. Hard disk	:	SATA 40 GB OR ABOVE
VI. CD/DVD r/w multi drive combo:		(If back up required)
VII. FLOPPY DRIVE 1.44 MB	:	(If Backup required)
VIII. MONITOR 14.1 or 15 -17 inch		
IX. Key board and mouse		
X. Printer	:	(if print is required - [Hard copy])

SOFTWARE REQUIREMENTS:

- Windows OS
- Python.

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