Life Cycle of

1. **Intake**

RPA Solution Architect & Leads will discuss with Business (Client)

1. **Planning**

RPA Lead

1. **Designing**
   1. Creation of PDD (Process Definition Document ) – RPA Business Analyst & Client
      1. High Level process
      2. High Level Process flow diagram
      3. Applications involved, Access Roles, Access POC
      4. Exceptions
      5. Special
      6. Bot Scheduling
      7. Stake Holders
   2. Review the PDD (RPA Developer)
      1. PDD Review Doc (Excel – S.no, PDD Query, Raised By, Clarified By, Comments)
   3. Solution Design Document
      1. Low Level Process Flow (To- Be Processed)
      2. Environment
      3. Input
      4. Output
      5. Logging
      6. Monitor
      7. Alerting
      8. Stakeholder
      9. High level Test cases

SDD & Test Cases should be signed-off by business to proceed with development

<<Requirement Freeze>>

1. **Development**
2. Unit Testing & Integration Testing

<Code Review>

1. UAT Testing

UAT-Sign Off

1. Production Deployment
2. Production Dry Runs
3. Hyper Care
4. Live
5. Reporting

Sequence – Step 1, Step2, Step----Step n

Flowchart -   
State Machine – Entry, Condition, Triggers

Variable – Scope of the variable is to workflow

Most Common Variable Types –

String – Word - “”

Int32 – Numbers

Double – decimal numbers

Boolean – True or False

Array (String/Int/Boolean…etc) = {“”,””,””,””}

Object = Store any kind

DataTable

Dictionary

MailMessage

JObject

XDocument

Scope :

Assigning – Assign/Multiple Assign

Creation : Create it from variables / Ctrl +k

If  
  
Condition = Result will be boolen

If Satisfied (True) - Then Block

Not Satisfied (False) - Else Block

Loops

1. Repeat Number of Times

Array, Data Table, Excel Column, Emails,

1. For Each
2. While & Do While
   1. While – Repeat the loop until condition fails
   2. Do While – execute the loop and then check the condition

Break -   
Continue -

Step1, Step 2 , Step 3, Break/Continue , Step 4 , step 5

Switch  
  
Case 1

Case 2

Case n

Default

Attended BOT:

An active user interaction is required

1. Generate report and send to required person

Un-Attended BOT:

3 Type of Arguments

Calling Task 1 & Called Task 2

1. In Argument
2. Out Argument
3. InOut Argument\

Data Table:

Variable : Single -

Array : Bunch of Data – Loop or Index

Array(0), Array(2)

DataTable : Table (Excel, Database)

Rows & Columns

Employee Data Table

Name : employeeData

Data Type: DataTable

Data:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **0** | **1** | **2** | **3** | **4** | **5** |
|  | **ID** | **FName** | **LName** | **Company** | **Designation** | **Address** |
| 0 | 101 (0)(0) | Shiva  (0)(1) | K  (0)(2) | TCS  (0)(3) | System Analyst  (0)(4) | Chennai  (0)(5) |
| 1 | 102 | Ram | S | Verizon | Software Developer | Hyderabad |
| 2 | 103 | Krishna | P | CTS | Software Architect | Mumbai |
| 3 | 104 | Ravi | R | Infosys | System Analyst | Hyderabad |

Rows : DataRow

Count : employeeData.Rows.count = 4

Fetch Data :

employeeData.Rows(0)(“LName”).ToString = “K”

employeeData.Rows(0)(2).ToString=”K”

Loop Through

ForEachRowinDataTable : CurrentRow

CurrentRow(0)/CurrentRow(“ID”) = 101/102/103/104