PowerApps & Power Automation

Looking for new career growth opportunities in IT and willing to develop applications? Having a fear of Coding? By 2025, 70% of new applications developed by enterprises will use low-code or no-code technologies, up from less than 25% in 2020. (Gartner)* Visual Path's Power Platform Program enables non-tech professionals to successfully advance into a new career path in low-code no-code application development using Microsoft Power Platform. Together let's kill your coding fear with our training program on Power Platform.

About Power Platform
- What is Microsoft D365 & Power Platform
- Environment
- SharePoint
- One drive
- Licensing & Setting Power app account.
- PL-900 Certification

Module-1
Introduction to Microsoft Power Apps
1. Power Apps Studio
- Screens
- Controls
- Data
- Media
- App Checker
- Save, publish and share

2. User Interface (UI) Elements
- Changing control properties
- Adding functions to controls
- Text Label and Text input
- Image, audio and video controls
- Buttons, shapes and icons
- Checkbox, Toggle and Date picker
- Timer, slider and rating
- Dropdown, list box, combo box and radio
- Naming conventions

3. Importance of HTML in Power Apps
a. Use cases with CSS to beautify Power Apps

4. Customizations for UI elements
- Actions like On Select, On Change, etc.

- Colors
- Display Mode
- Tooltip
- Visibility

5. **Dynamically changing control properties at run-time**
- Enable save button when Text input value changes
- Disable/enable Text input by clicking a checkbox

6. **Local and global Variables**

a. Accessing contextual variables in other screens

7. Collections
- Logical and comparison operators
- Filter, search and sort collection
- Inserting item into a collection
- Updating single record in a collection using patch function
- Deleting a record from collection
- Working with Aggregation functions

8. **Working with Gallery and Data Table**
- Horizontal and vertical gallery
- Show item selected in gallery
- Show multiple items in one row in gallery using special property
- Display total items in present in gallery
- Use collection in gallery
- Gallery vs data table

9. Connect with various data sources like Data verse/SharePoint/Microsoft Lists (based on   availability)

10. Edit form and display form controls for create/read/update data to data source
- Difference between edit form and display form
- Show success/error message to users based on the operation
- Use only one form for create/update scenario
- Get last submitted record to data source

11. **Delegation**
- True meaning of delegation
- Advantages
- How to find if some function is delegable or not

12. **Pop-up using container control**

13. App objects
- Execute code when app is launched

- Decide screen of the app when app is launched

14. **Power Apps versioning and how to set version as live**

15. Component

16. Solution:
- Unmanaged and managed solution
- Deployment (based on availability of another environment)

17. Optimization tips for Power Apps

18. Power Platform Admin Center overview
- Environment type
- Environment URL
- GUID

19. Using Canvas Apps in Mobiles and Tabs

20. Responsive Power apps

Mini Application on Power app

- # Module-2

Power Automate training:

Introduction to Power Automate
- Create your first flow

Types of flows
- Manual
- Automated
- Recurrence

Types of Variables
- Initialize variable and set variable
- Increment/Decrement variable
- Append to string variable
- Append to array variable
- Object and Array of objects

Expressions
- Get first and last element from array
- Get specific record from array based on position
- Get specific property of specific record from array
- Array out of bounds scenario and how to avoid
- Run history of flow and how to download logs
- Create Power Automate Workflows from scratch

- Connect to Data verse ☐ list records ☐ Understand JSON structure in output

  8. Apply to each vs select vs filter

- Create HTML table and send email

a. Use CSS to style table in email

- Trigger conditions to minimize flow runs
- Call flow from Power Apps and respond to Power Apps from flow
- Optimization tips for flow
- Error handling
- Terminate flow
- Expressions in Power automate
- Building a Microsoft Forms Flow – Switch
- Certificate or any Word Document generator
- Dataverse and Share point Triggers
- Building a SharePoint Library Flow – Do Until
- Use Power Automate Modern Approvals Building a Microsoft Outlook Flow – Apply to Each
- Building a OneDrive Flow – Convert File
- Building a Microsoft Forms Flow – Switch
- Microsoft Teams Adaptive Cards
- Button Types and Instant Flows,
- Mobile Buttons
- Connecting Power Automate to PowerApps

Mini Application on Power automate

Module-3

Model Driven Application

- Creating a SharePoint database
- Creating Dataverse Data base
- Environment , Solution in Dataverse
- Tables,Columns,forms etc in Dataverse
- Relationships ,
- Business rules ,
- Business Process flow (BPF)
- Views, Processes, Customizations in Dataverse.

  Mini Application on MDA

Module-4

Power Virtual Agents

- Getting Started with PVA
- Basics of PVA
- Creating a Chat bot for a Fitness Center
- Creating a Chatbot For a Restaurant Enquiry
- Integrating PVA in Power app

3 Mini Projects
- **One Real time app for each module**
- **Exploring to Current trends**
- **Interview Guidance**
- **Interview Questions**
- **Hands ON Experience**
- **PL-900 Certification Guidance**

All the Best