

# Three-Month Training Plan for Power Apps and Power Automate

#### Agenda

- Introduction
- Month 1: Foundations and Basics
- Week 1: Introduction and Getting Started
- Week 2: First Steps
- Week 3: Data Integration
- Week 4: Controls and Variables
- Month 2: Intermediate Concepts
- Week 5: User Interface and User Experience
- Week 6: Advanced Data Handling
- Week 7: Automation and Integration
- Week 8: Customization and Scripting
- Month 3: Advanced Topics and Best Practices

#### Introduction



- Combines Power Apps and Power Automate
  - Integrated approach for enhanced understanding
  - Practical application of concepts
- Three hours per week commitment

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#### Month 1: Foundations and Basics

### Month 1: Foundations and Basics

#### Power Apps: Introduction to Power Apps



**Overview of Power Apps** 



**Types of Power Apps** 

Canvas

Model-driven

Portals



Setting up your Power Apps environment

#### Power Automate: Introduction to Power Automate

- Overview of Power Automate
- Types of flows
  - Automated
  - Instant
  - Scheduled
  - Desktop
- Setting up your Power Automate environment

## Power Apps: Creating Your First App

- Building a simple Canvas app from scratch
- Exploring the Power Apps Studio
- Basic controls and customization



## Power Automate: Building Your First Flow



Creating a simple automated flow



Exploring the Power Automate interface



Connecting to common services

Office 365

OneDrive

#### Power Apps: Understanding Data Sources



Connecting to different data sources

SharePoint, SQL Server, Excel



Using galleries and forms to display data



Customizing data views and forms

#### Power Automate: Connecting to Data Sources



**Setting up connections in Power Automate** 



Using triggers and actions



**Common data operations** 

Get items

Create item

#### Power Apps: Advanced Controls



Using advanced controls

Drop-downs

Date pickers

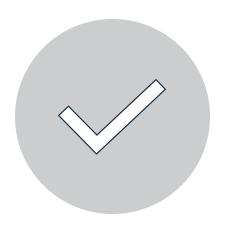


**Introduction to formulas** 



Managing variables and collections

#### Power Automate: Input and Output Parameters







UNDERSTANDING INPUT AND OUTPUT PARAMETERS

USING VARIABLES AND CONDITIONS

HANDLING DIFFERENT DATA TYPES

#### Month 2: Intermediate Concepts

### Month 2: Intermediate Concepts

#### Power Apps: UI Design and Customization







Designing a userfriendly interface Customizing themes and templates

Responsive design principles

#### Power Automate: User Interaction in Flows

- Using approvals and notifications
  - Allows for user input and decision making within flows
- Creating custom notifications
  - Provides flexibility in how users are notified
- Integrating with Teams for user interaction
  - Enables seamless collaboration and communication within the flow

## Power Apps: Data Manipulation and Storage

- Advanced data manipulation techniques
- Using collections for temporary data storage
- Handling large datasets efficiently

## **Power Automate: Advanced Data Handling** Handling complex data operations Using loops and conditions for data processing Error handling and debugging flows

#### Power Apps: Integrating with Power Automate

- Triggering flows from Power Apps
- Using Power Automate to process data
- Case study: Automating approvals within a Power App

#### Power Automate: Integrating with Power Apps

- Creating flows that interact with Power Apps
  - Use dynamic content from Power Apps to trigger flows
- Using dynamic content from Power Apps
  - Pass data between Power Apps and Power Automate
- Case study: Sending notifications based on Power Apps input
  - See how Power Automate can be used to send notifications based on user input in Power Apps

#### Power Apps: Custom Components and Controls

- Creating and using custom components
- Introduction to PowerApps Component Framework (PCF)
- Using scripts for advanced customization

#### Power Automate: Scripting and Custom Actions



Using expressions and advanced formulas



Creating custom connectors



Case study: Automating complex business processes

#### Month 3: Advanced Topics and Best Practices

### Month 3: Advanced Topics and Best Practices

## Power Apps: Security Best Practices



- Setting up user roles and permissions
  - Ensure that users have the appropriate level of access to data and functionality
- Managing app sharing and environments
  - Control who can access and edit apps, and manage different versions of the app
- Data security and compliance considerations
  - Ensure that data is stored and processed securely,
     and that the app complies with relevant regulations

## Power Automate: Security and Compliance

- Implementing secure connections
- Managing flow permissions
- Compliance and governance policies



#### **Power Apps: Optimizing App Performance**



- Techniques for improving app load times
- Efficient data handling strategies
- Monitoring and troubleshooting performance issues

### **Power Automate: Optimizing Flow Performance** Best practices for flow efficiency Using parallel branches and avoiding loops Monitoring and troubleshooting flow performance

#### Power Apps: Integrating with External Services

- Using APIs and custom connectors
- Integrating with other Microsoft services
  - Power BI
  - Dynamics 365
- Case study: Creating a comprehensive business solution

#### Power Automate: Advanced Integrations



- Creating flows that interact with external APIs
- Using HTTP actions and managing authentication
- Case study: Automating data exchange between services

#### Power Apps: Building a Comprehensive Application

- Designing and implementing a complete business application
- Incorporating best practices from previous weeks
- Testing and deploying the application

## Power Automate: Developing a Comprehensive Automation Flow



- Designing and implementing a complex automation flow
- Incorporating best practices from previous weeks
- Testing and deploying the flow

## Power Apps: Real-World Applications

- Review of successful Power Apps projects
- Lessons learned and best practices
- Developing a customized application based on a real-world scenario

#### Power Automate: Real-World Automations

- Review of successful Power Automate projects
- Lessons learned and best practices
- Developing a customized flow based on a real-world scenario



#### Power Automate: Certification Exam Preparation

- Review of key concepts and skills
- Practice questions and mock exams
- Tips and strategies for passing the certification exam



#### Power Apps: Project Presentation







RECEIVING FEEDBACK AND SUGGESTIONS



ITERATING AND IMPROVING BASED ON FEEDBACK

## Power Automate: Project Presentation

- Presenting your developed
   Power Automate flows
- Receiving feedback and suggestions
- Iterating and improving based on feedback



#### Power Apps: Exploring Advanced Features

- Delving into advanced features and capabilities
- Introduction to AI Builder and Power Virtual Agents
- Planning for future learning and development



- Delving into advanced features and capabilities
- Introduction to RPA (Robotic Process Automation) with Power Automate
- Planning for future learning and development



#### Conclusion

- Comprehensive training plan for Power Apps and Power Automate
  - Gain knowledge and skills to proficiently use both tools
  - Integrate them effectively to create powerful business solutions