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Data Collection and Analysis

Using Microsoft PowerApps - 3 days

FA-0153 · 3 days

Data & Analytics · Automation, RPA & Power Platform

Introduction

Welcome to our comprehensive 3-day course designed to empower you with the knowledge and skills needed to utilize Microsoft Power Apps for efficient data collection across web URLs, mobile devices, and tablets. In today's fast-paced world, the ability to gather, analyze, and visualize data seamlessly is invaluable.

Microsoft Power Apps offers a user-friendly platform that bridges the gap between data collection and business intelligence, enabling you to make informed decisions based on real-time insights.

This course is crafted for those with minimal technical background, guiding you through the basics to more advanced functionalities of Power Apps, ensuring you can create, deploy, and manage applications that cater to your data handling needs.

Learning outcomes

By the end of this course, participants will be able to:

- Understand the fundamentals of Microsoft Power Apps and its relevance in data collection and analysis.
- Create custom forms using Power Apps for data entry through web URLs, mobile devices, and tablets.
- Connect Power Apps to various data sources for data collection and storage.
- Transform and view collected data in Excel format for analysis.
- Generate visual reports and dashboards from collected data for better understanding and decision-making.
- Deploy and share Power Apps with team members or across the organization for efficient data collection.
- Apply best practices in Power Apps development for optimal performance and user experience.

Prerequisites

- Basic familiarity with Microsoft Office applications, especially Excel.
- Access to Microsoft Power Apps (usually available through Microsoft 365 subscription).
- A computer with internet access for creating and testing applications.
- No prior experience with Power Apps or coding is required.

Training outline

1. Introduction to Microsoft Power Apps

1. Overview of Power Apps in the context of modern business needs.
2. Understanding the Power Apps environment: Canvas apps vs. Model-driven apps.
3. Key features and benefits of using Power Apps for data collection.

2. Getting Started with Power Apps

1. Navigating the Power Apps Studio.
2. Setting up your Power Apps account and environment.
3. Understanding data sources and connections.

3. Building Your First App

1. Choosing the right app template.
2. Customizing the app interface: understanding screens, controls, and layouts.
3. Adding and configuring controls (text input, buttons, forms, etc.).

4. Data Collection with Forms

1. Creating custom forms for data entry.
2. Connecting forms to data sources (SharePoint, Excel Online, etc.).
3. Field validation and form submission rules.

5. Advanced Form Features

1. Implementing conditional visibility and logic in forms.
2. Customizing form navigation and user flow.

3. Enhancing user experience with media (images, videos) and galleries.

6. Managing Data Sources

1. Introduction to common data sources for Power Apps (SharePoint, Common Data Service, custom APIs).
2. Connecting to and managing data sources.
3. Data modeling basics: entities, fields, and relationships.

7. Data Handling and Analysis

1. Exporting collected data to Excel for analysis.
2. Introduction to Power Query for data transformation.
3. Basic Excel operations for analyzing Power Apps data.

8. Visualizing Data

1. Overview of data visualization principles.
2. Using Power BI for creating interactive reports and dashboards.
3. Integrating Power BI visuals into Power Apps.

9. Publishing and Sharing Apps

1. Testing your app: best practices and tools.
2. Publishing your app within your organization.
3. Sharing your app: understanding permissions and access control.

10. Best Practices and Tips

1. Design principles for effective Power Apps.
2. Optimizing app performance.
3. Managing app versions and updates.

11. Project Workshop

1. Guided project: building a complete app from start to finish.
2. Applying learned concepts to a real-world scenario.
3. Peer review and feedback session.

This course structure is designed to gradually build your competence and confidence in using Microsoft Power Apps, making data collection and analysis tasks more intuitive and efficient.

Through a mix of theoretical knowledge and practical exercises, you'll become proficient in leveraging Power Apps to meet your data handling requirements.

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