Faysal Aziz

Advance Power App Dev

1-day course outline

FA-0509

DevOps, Cloud & Infrastructure · Automation, RPA & Power Platform

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Introduction

In this intensive two-day session, we'll dive deep into the powerful capabilities of Power Apps, focusing on practical applications and advanced techniques. You'll learn how to optimize data management, integrate complex systems, and create dynamic, responsive applications. This course is designed for those ready to build on their foundational knowledge and leverage Power Apps to solve real-world business challenges efficiently. Prepare to unlock the full potential of Power Apps and transform your approach to app development.

Prerequisites

This course would be tailored to individuals with prior experience using Power Apps, looking to leverage its full potential in complex and large-scale application scenarios.

For an advanced Power Apps course, participants should have:

1. **Foundational Knowledge of Power Apps**: Understanding of basic concepts, experience in building simple apps, and familiarity with the Power Apps environment.
2. **Experience with Microsoft 365 Suite**: Proficiency in using platforms like SharePoint, Excel, and familiarity with the broader Microsoft ecosystem.
3. **Understanding of Data Management**: Knowledge of data sources, relationships, and experience in handling data within applications.
4. **Basic Coding Skills**: While not mandatory, some understanding of formulas, logic expressions, and familiarity with a coding language can be beneficial.
5. **Business Process Awareness**: Insight into how business processes work and how applications can solve real-world business problems.
6. **Problem-Solving Mindset**: Ability to think critically and creatively to design and troubleshoot applications.

Training outline

1. Advanced Design and User Experience:

1. Best practices for UI/UX design in Power Apps.
2. Implementing advanced controls and custom components.
3. Designing for different form factors and responsiveness.

2. Deep Dive into Data Handling and Management:

1. Advanced techniques for data manipulation and integration.
2. Working with relational data and leveraging Common Data Service.
3. Implementing complex data relationships and custom entities.

3. Mastering Formulas and Business Logic:

1. Complex formulas and functions for dynamic app behavior.
2. Error handling and performance optimization.
3. Automated testing and debugging strategies.

4. Integration and Extensibility:

1. Extending Power Apps with Azure services and custom connectors.
2. Deep integration with Power Automate for workflow automation.
3. Leveraging AI Builder for intelligent app functionalities.

5. Advanced Application Scenarios:

1. Building composite and model-driven apps.
2. Case studies: Solving real business problems with advanced apps.
3. Collaborative app development and ALM considerations.

6. Capstone Project:

1. Applying advanced skills in a comprehensive project.
2. Scenario-based learning and application to real-world problems.

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