

Power Platform: Test Automation for Model-Driven Power Apps

Duration: 5 days - Remote | **Focus Area:** Upgrade, Migration and Deployment | **Difficulty:** 300

Intended Audience

The following roles will find this community workshop useful. Others may also attend, as described in the secondary Audience section.

Primary Audience: Teams that build, test and deploy model-driven app solutions and lead remediation efforts.

Secondary Audience: Model-driven app administrators

Overview

This service focuses on implementing test automation for model-driven apps in Dynamics 365.

The initial 2-day engagement focuses on building a foundational knowledge for a test framework. Using industry standard concepts and demos, students will be provided the practical knowledge needed to leverage functional and non-functional testing in their Model-driven Power Apps projects.

The subsequent follow-up engagements will build on the knowledge and will be based on one of two tracks: UI testing with Azure Monitor or testing and feedback with Azure DevOps. The follow-up engagements can be scheduled as needed but will need to be completed within 12 months of the initial engagement.

Objectives

After completing this training, you will be able to:

- Gain a firm understanding of what to consider when testing and how to leverage it to ensure a quality user experience.
- Understand and follow best practices when implementing a test framework
- Deploy testing to Azure DevOps for continuous quality and/or use testing together with Azure Monitor

Key takeaways

Course material

- Test Automation for Model-driven Power Apps
- EasyRepro with Azure Monitor
- EasyRepro with Azure DevOps

Agenda

Day 1

- Introduction to Test Automation
- Exploring and Working with Visual Studio Unit Tests

Day 2

- Activate Test Automation
- Creating tests, debugging and troubleshooting

Day 3-5

- Three, 1-day sessions based on one of two tracks: UI testing with Azure Monitor or testing and feedback with Azure DevOps.

Course details

Module 1: Introduction to Test Automation

- Continuous Quality
- Test Feedback
- Unit Testing
- UI Testing
- GitHub and Azure DevOps

Module 2: Exploring Visual Studio Unit Tests

- IntelliTest
- Visual Studio Testing Tools for Dynamics 365
- Data Driven Tests
- Running Unit Tests

Module 3: Exploring UI Testing

- Downloading and Cloning EasyRepro or other frameworks
- Integration with Selenium or Playwright
- Defining an UI test

Module 4: Troubleshooting Tests

- Best Practices
- Defining Telemetry
- Error Handling

Module 5: Activating Test Automation

- Creating Tests
- Debugging
- Troubleshooting

Monitoring Testing with Azure Monitor

- Capture telemetry and track your KPIs using Azure Monitor

OR

Testing and Feedback with Azure Devops

- Automate tests using Azure DevOps CI/DC

Pre-requisites

Before attending this course, it is recommended that you meet the following criteria

- Experience with developing Model-driven apps (Dynamics 365) solutions is required
- Experience with Visual Studio Test tools strongly preferred
- Experience with Azure DevOps or Visual Studio Team Services desirable
- Power Platform environment for Model-driven apps/Dynamics 365 apps or trial

For more information

Contact your Microsoft Account Representative for further details.