

Palantir Foundry Application Developer

COURSE CONTENT

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Multisoft Systems
B - 125, Sector - 2, Noida



(+91) 9810-306-956



info@multosoftsystems.com



www.multosoftsystems.com

About Multisoft

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About Course

Palantir Foundry Application Developer provides practical knowledge of creating data-driven enterprise applications within the Foundry ecosystem. The course covers Foundry architecture, datasets, Ontology, Workshop, Functions, Actions, application logic, security, testing, and deployment concepts. Through practical scenarios, participants learn how to connect enterprise data with interactive applications and operational workflows to support business processes and informed decision-making.

Module 1: Introduction to Palantir Foundry and Application Development

- ✓ Overview of Palantir Foundry
- ✓ Foundry as an enterprise data and application platform
- ✓ Foundry application development ecosystem
- ✓ Data-to-application lifecycle
- ✓ Operational applications and decision workflows
- ✓ Key Foundry application development components
- ✓ Understanding datasets, Ontology, Functions, Actions, and Workshop
- ✓ Application developer responsibilities
- ✓ Common enterprise application scenarios

Module 2: Foundry Platform Architecture and Developer Environment

- ✓ Understanding Foundry platform architecture
- ✓ Foundry project and resource organization
- ✓ Navigating the Foundry environment
- ✓ Understanding application development resources
- ✓ Projects, folders, and development assets
- ✓ Resource dependencies
- ✓ Development lifecycle within Foundry
- ✓ Collaboration between data engineers and application developers
- ✓ Managing application-related resources
- ✓ Development environment considerations

Module 3: Data Foundations and Dataset Exploration

- ✓ Understanding datasets in Foundry
- ✓ Structured enterprise data concepts
- ✓ Exploring datasets and schemas
- ✓ Dataset columns and data types
- ✓ Understanding dataset relationships
- ✓ Data quality considerations for applications
- ✓ Filtering and querying application data
- ✓ Working with transformed datasets
- ✓ Understanding upstream and downstream dependencies
- ✓ Preparing application-ready data
- ✓ Data lineage fundamentals

Module 4: Ontology Fundamentals and Object Modeling

- ✓ Introduction to the Foundry Ontology
- ✓ Role of Ontology in application development
- ✓ Understanding object types
- ✓ Object properties
- ✓ Property types and configuration
- ✓ Primary identifiers
- ✓ Mapping datasets to objects
- ✓ Creating meaningful business objects
- ✓ Understanding links between objects
- ✓ Modeling enterprise entities
- ✓ Designing application-oriented object models

- ✓ Ontology modeling considerations

Module 5: Ontology Relationships, Properties, and Application Data Access

- ✓ Working with Ontology objects
- ✓ Navigating object relationships
- ✓ Linked objects and relationship structures
- ✓ Object property access
- ✓ Object search and filtering concepts
- ✓ Using Ontology data within applications
- ✓ Understanding calculated and derived information
- ✓ Designing application views around business objects
- ✓ Handling related enterprise entities
- ✓ Data accessibility considerations
- ✓ Maintaining consistent application data models

Module 6: Application Development with Workshop

- ✓ Introduction to Workshop
- ✓ Workshop application structure
- ✓ Creating a new application
- ✓ Understanding pages and layouts
- ✓ Configuring application components
- ✓ Displaying Ontology objects
- ✓ Tables and data-driven components

- ✓ Forms and input components
- ✓ Charts and visualization components
- ✓ Object details and contextual information
- ✓ Filtering application content
- ✓ Building interactive dashboards
- ✓ Creating user-focused application layouts
- ✓ Navigation between application views
- ✓ Designing applications for operational users

Module 7: Application Logic, Variables, Events, and Interactions

- ✓ Understanding application state
- ✓ Working with variables
- ✓ Variable types and usage
- ✓ Connecting variables with components
- ✓ Dynamic filtering
- ✓ Conditional application behavior
- ✓ Component interactions
- ✓ Event-driven application behavior
- ✓ User selections and contextual updates
- ✓ Passing information between application elements
- ✓ Creating dependent components
- ✓ Configuring interactive workflows
- ✓ Managing application state across views
- ✓ Designing responsive business interactions

Module 8: Functions and Custom Business Logic

- ✓ Introduction to Functions in Foundry
- ✓ Role of Functions in application development
- ✓ Understanding function inputs and outputs
- ✓ Implementing reusable business logic
- ✓ Accessing Ontology information through Functions
- ✓ Processing application inputs
- ✓ Data validation logic
- ✓ Business rule implementation
- ✓ Using Functions from applications
- ✓ Connecting Functions with Workshop components
- ✓ Handling function results
- ✓ Error handling concepts
- ✓ Reusable application logic patterns
- ✓ Function testing and debugging

Module 9: Actions and Operational Workflows

- ✓ Introduction to Foundry Actions
- ✓ Understanding operational workflows
- ✓ Actions and Ontology objects
- ✓ Configuring user-triggered operations
- ✓ Updating object-related information
- ✓ Action parameters and user inputs
- ✓ Validation requirements
- ✓ Connecting Actions with Workshop

- ✓ Creating application-driven workflows
- ✓ Confirmation and feedback patterns
- ✓ Multi-step operational processes
- ✓ Business process implementation
- ✓ Controlling permitted user operations
- ✓ Auditable operational workflows

Module 10: Security, Permissions, and Application Governance

- ✓ Foundry security fundamentals
- ✓ Application access considerations
- ✓ Project and resource permissions
- ✓ Dataset access
- ✓ Ontology access considerations
- ✓ Application user permissions
- ✓ Role-based access concepts
- ✓ Controlling access to application functionality
- ✓ Security considerations for Functions and Actions
- ✓ Protecting sensitive enterprise information
- ✓ Governance considerations
- ✓ Application change management
- ✓ Responsible application development practices

Module 11: Testing, Debugging, Performance, and Deployment

- ✓ Application testing strategy
- ✓ Functional testing
- ✓ Testing application interactions
- ✓ Validating variables and filters
- ✓ Testing Functions and Actions
- ✓ Identifying application errors
- ✓ Debugging application behavior
- ✓ Handling invalid or missing data
- ✓ Performance considerations
- ✓ Optimizing application data access
- ✓ Improving component responsiveness
- ✓ Managing dependencies
- ✓ Application release considerations
- ✓ Version and change management concepts
- ✓ Production readiness checks
- ✓ Application maintenance practices

Module 12: End-to-End Foundry Application Project

- ✓ Understanding business requirements
- ✓ Identifying application users and workflows
- ✓ Selecting appropriate datasets
- ✓ Designing the Ontology model
- ✓ Configuring objects and relationships

- ✓ Planning application architecture
- ✓ Creating Workshop application pages
- ✓ Implementing interactive components
- ✓ Configuring variables and application logic
- ✓ Implementing Functions
- ✓ Configuring operational Actions
- ✓ Applying permissions and access controls
- ✓ Testing the complete application workflow
- ✓ Troubleshooting application issues
- ✓ Reviewing application performance
- ✓ Preparing the application for operational use
- ✓ Final application walkthrough and project review