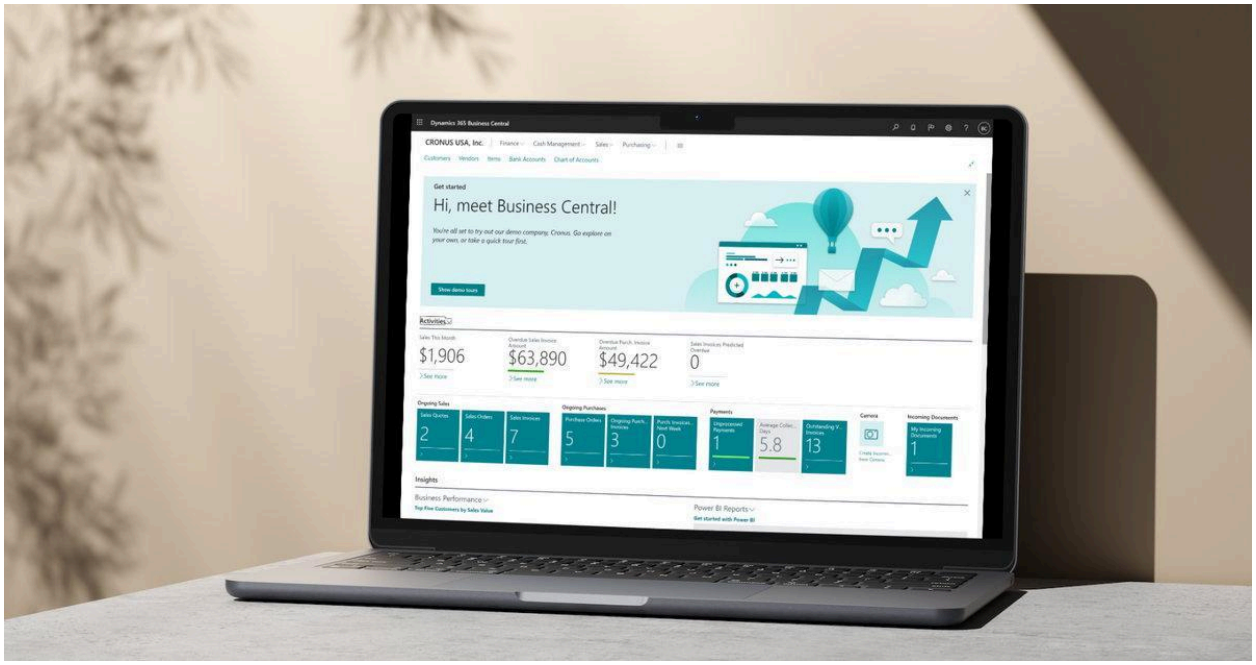
SRNTS Business Central Technical Program is designed to take students from the fundamentals of Business Central development to advanced technical concepts, with a strong emphasis on hands-on exercises and real-world project scenarios.

Microsoft Dynamics 365 Business Central Technical Training



Build Practical Business Central Development Skills

Organized by SRNTS — SRN Technology Services

50 Hours

Technical training program

Hands-on Focus

Practical coding and exercises

Beginner to Advanced

Progressive learning path

Expert-Led

Led by Saurav Dhyani

1. Training Overview

Microsoft Dynamics 365 Business Central is a cloud-based enterprise resource planning (ERP) solution that helps organizations manage finance, sales, purchasing, inventory, warehousing, and other business operations.

This technical training program is designed to help learners understand the Business Central development architecture and build customizations using AL (Application Language), Visual Studio Code, extensions, events, APIs, and related development tools.

The training begins with development fundamentals and gradually moves toward advanced concepts used in real-world implementations. Students will work on practical exercises to create custom tables, extend standard pages, implement business logic, develop reports, integrate external systems, troubleshoot errors, and deploy extensions.

Trainer: Saurav Dhyani — an established contributor to the Business Central community.

Training approach: Concept explanation, live demonstrations, hands-on development, troubleshooting exercises, and an end-to-end practical project.

2. Target Audience

This training is suitable for:

- Business Central Developers who want to strengthen their AL programming and extension development skills.
- Microsoft Dynamics NAV Developers who want to transition to modern Business Central development.
- Dynamics 365 Technical Consultants looking to expand their ERP development knowledge.

- Software Developers interested in learning AL and the Business Central application architecture.
- Technical Consultants who want to understand customization, integrations, reporting, and deployment.
- Freshers and aspiring developers who have basic programming knowledge and want to enter the Business Central ecosystem.
- Project team members who want to understand how Business Central technical solutions are designed and implemented.

3. Prerequisites

The following knowledge will help students get the most out of the program:

- Basic understanding of programming concepts such as variables, conditions, loops, functions, and data types.
- Familiarity with relational databases, tables, fields, primary keys, and relationships.
- Basic understanding of ERP systems and business processes such as sales, purchasing, finance, or inventory.
- Familiarity with using a development environment and writing code.
- A willingness to practice, debug code, and complete hands-on assignments.

Note: Prior Business Central development experience is not mandatory. Students with basic programming knowledge can start from the fundamentals.

4. Good-to-Have Skills

These skills are helpful but not mandatory:

- Microsoft Dynamics NAV or Business Central functional knowledge.
- Experience with C/AL or AL programming.
- Basic SQL and database concepts.
- Familiarity with REST APIs, JSON, HTTP methods, and authentication.
- Basic knowledge of Git and source control.
- Familiarity with Visual Studio Code.
- Understanding of Microsoft Power Platform, Power Automate, or Dataverse.
- Basic knowledge of cloud environments and software deployment practices.

5. Key Outcomes of the Training

By the end of the program, students should be able to:

1. Understand Business Central architecture and the extension-based development model.
2. Set up a development environment using Visual Studio Code and the AL Language extension.
3. Create AL projects and work with application objects.
4. Design tables, fields, keys, and table extensions.
5. Develop pages and page extensions to customize the user interface.
6. Implement business rules and reusable logic using codeunits.
7. Work with events, event publishers, and event subscribers.
8. Develop reports and report extensions for business requirements.
9. Expose and consume APIs and web services.
10. Configure permissions and understand security considerations.
11. Debug AL code and handle errors effectively.
12. Understand data import, export, and migration scenarios.
13. Integrate Business Central with Power Platform and external systems.
14. Apply performance optimization and development best practices.
15. Understand source control, CI/CD fundamentals, extension packaging, and deployment.
16. Apply the concepts through a practical, end-to-end Business Central customization project.

Learning outcomes depend on each student's participation and completion of practical exercises. The course provides technical training; independent project readiness also requires continued practice.

6. Training Pricing

Business Central Technical Training

₹10,000 INR

50 hours of instructor-led technical training

Hands-on coding and practical exercises

Progressive learning from fundamentals to advanced topics

Practical project and technical implementation scenarios

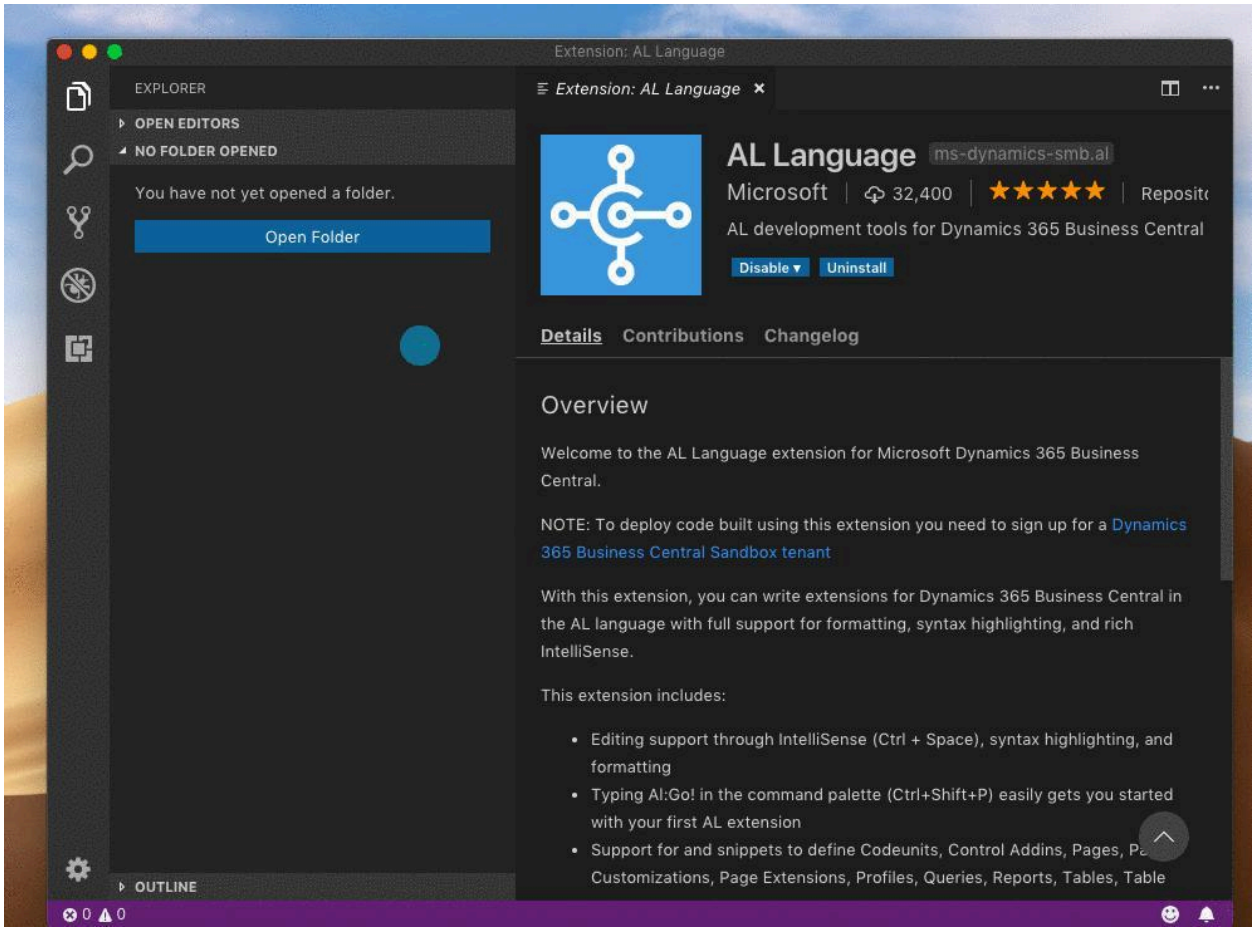
7. Training Schedule

Item	Details
Training duration	50 hours
Overall course duration	Approximately 2 months
Training format	Instructor-led, with hands-on practice
Weekly commitment	Minimum 6 hours per week
Training days	Planned on a regular schedule, excluding Saturdays
Trainer	Saurav Dhyani
Batch size	Previously planned for up to 50 students
Upcoming batch dates	To be announced

The schedule may include additional sessions depending on the trainer's availability and the pace of the batch. The confirmed session calendar will be shared with enrolled students.

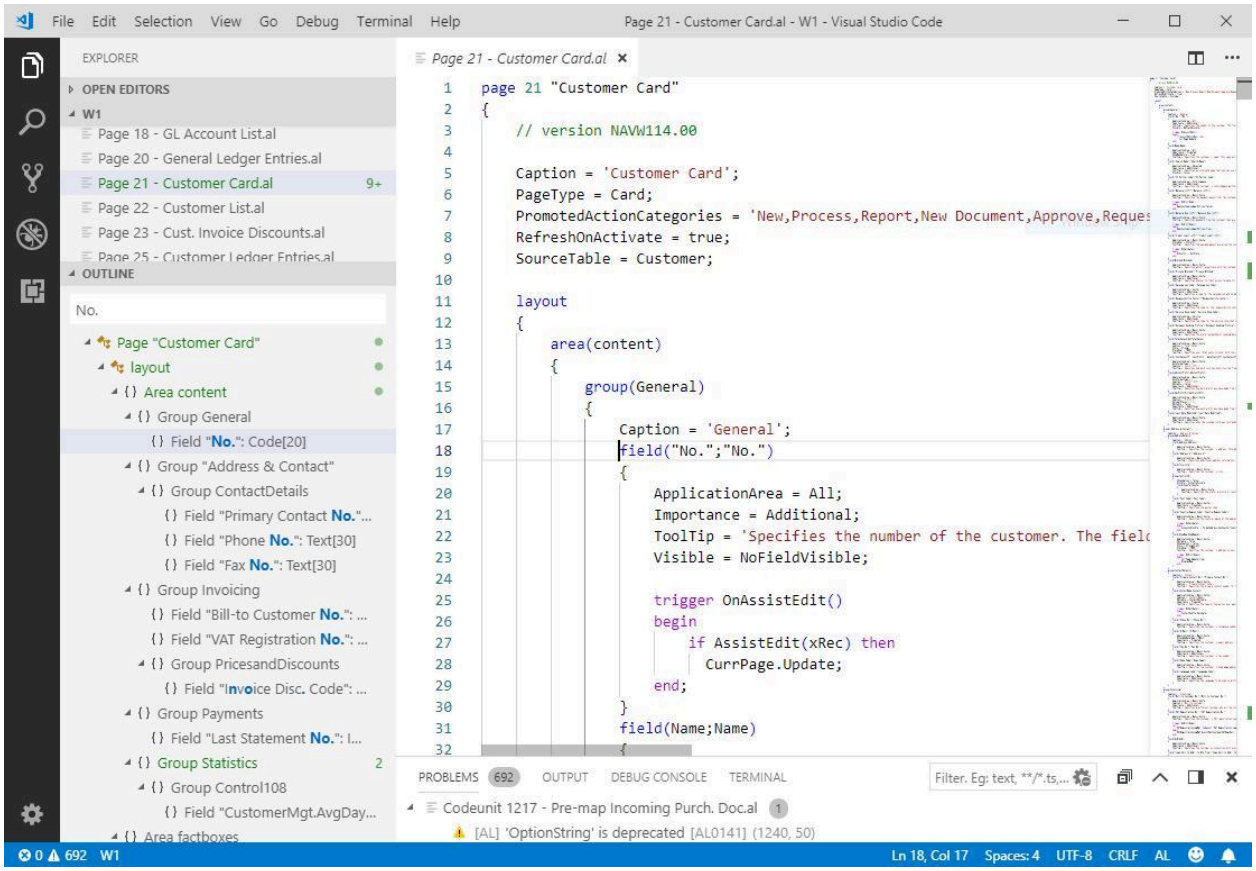
8. Detailed 50-Hour Curriculum

The curriculum contains 15 modules, with additional time allocated to complex development areas such as AL programming, tables, pages, codeunits, events, APIs, and integrations.



Module 1: Environment Setup and Architecture — 2 Hours

- Business Central overview and architecture
- SaaS and sandbox environments
- Visual Studio Code and AL Language extension
- Creating and publishing the first AL project
- Understanding `app.json` and project structure



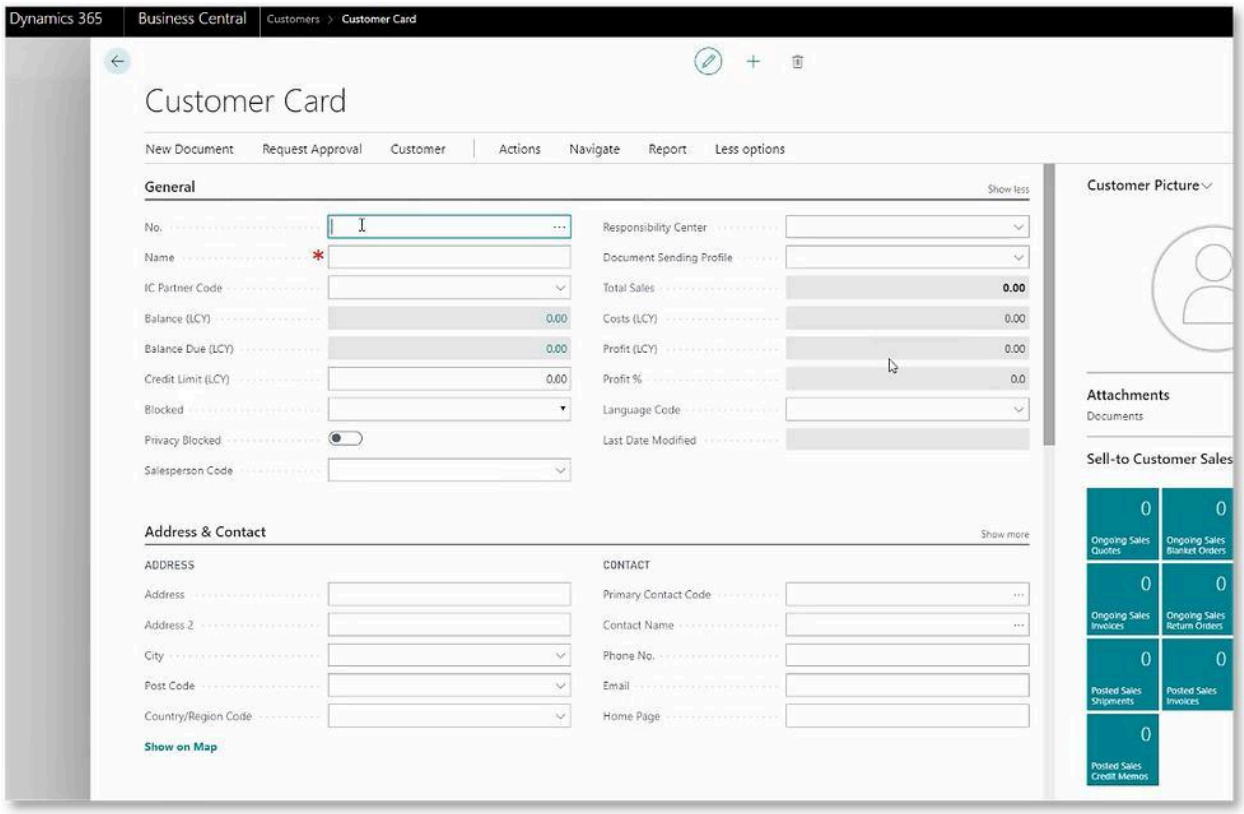
Module 2: AL Programming Fundamentals — 4 Hours

- Variables, data types, operators, and expressions
- Conditional statements and loops
- Procedures, parameters, and return values
- Records, system functions, and data access
- Error handling and practical AL coding exercises



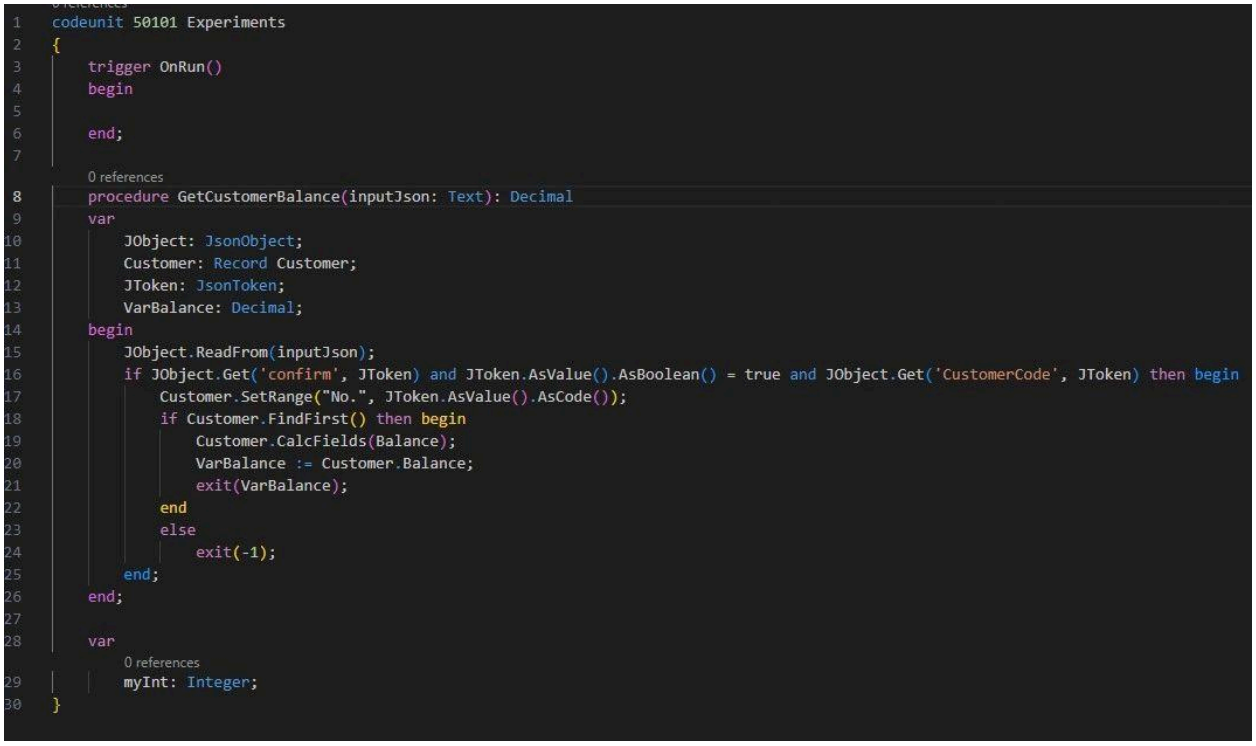
Module 3: Tables and Table Extensions — 5 Hours

- Creating tables, fields, and keys
- Field data types, validation, and properties
- Table triggers and field validation
- Table relationships and `TableRelation`
- Extending standard Business Central tables
- Practical custom-table development



Module 4: Pages and Page Extensions — 5 Hours

- Card, List, Document, and Role Center pages
- Page fields, actions, groups, and layouts
- Page triggers and user interactions
- Extending standard pages
- FactBoxes, subpages, and navigation
- Hands-on customization of standard pages



```
codeunit 50101 Experiments
{
    trigger OnRun()
    begin

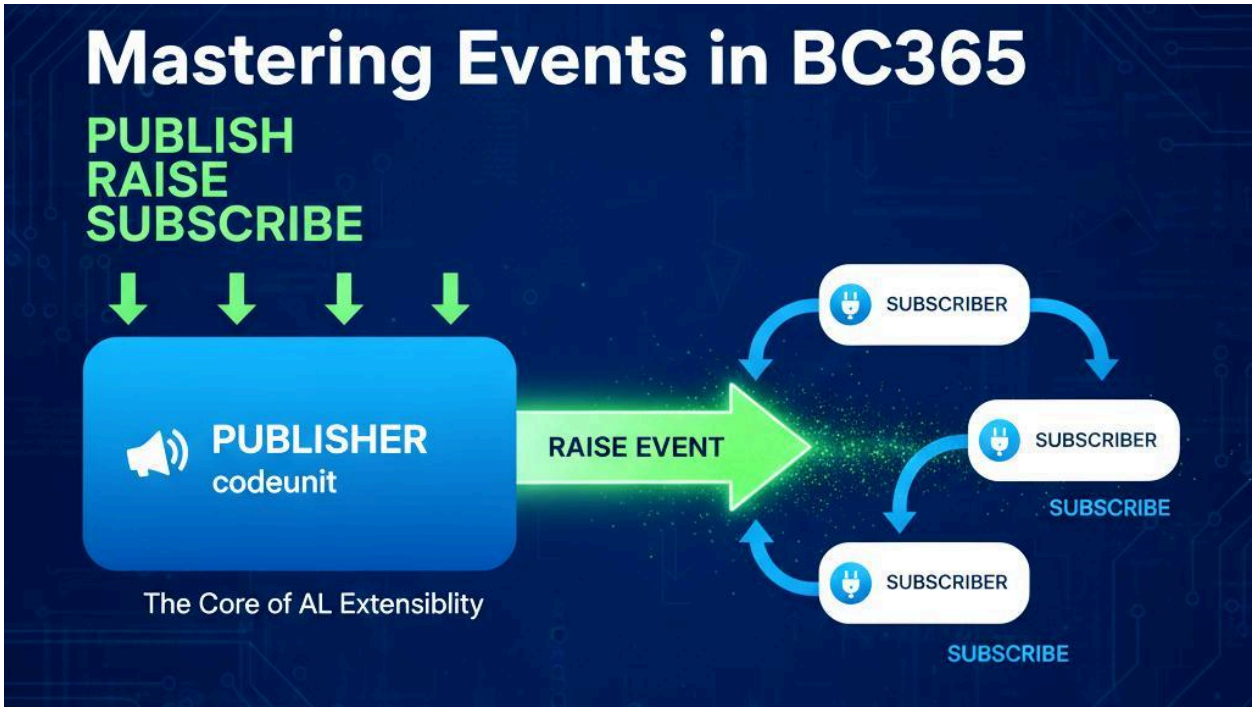
    end;

    0 references
    procedure GetCustomerBalance(inputJson: Text): Decimal
    var
        JObject: JsonObject;
        Customer: Record Customer;
        JToken: JsonToken;
        VarBalance: Decimal;
    begin
        JObject.ReadFrom(inputJson);
        if JObject.Get('confirm', JToken) and JToken.AsValue().AsBoolean() = true and JObject.Get('CustomerCode', JToken) then begin
            Customer.SetRange("No.", JToken.AsValue().AsCode());
            if Customer.FindFirst() then begin
                Customer.CalcFields(Balance);
                VarBalance := Customer.Balance;
                exit(VarBalance);
            end
            else
                exit(-1);
        end;
    end;

    var
        0 references
        myInt: Integer;
}
```

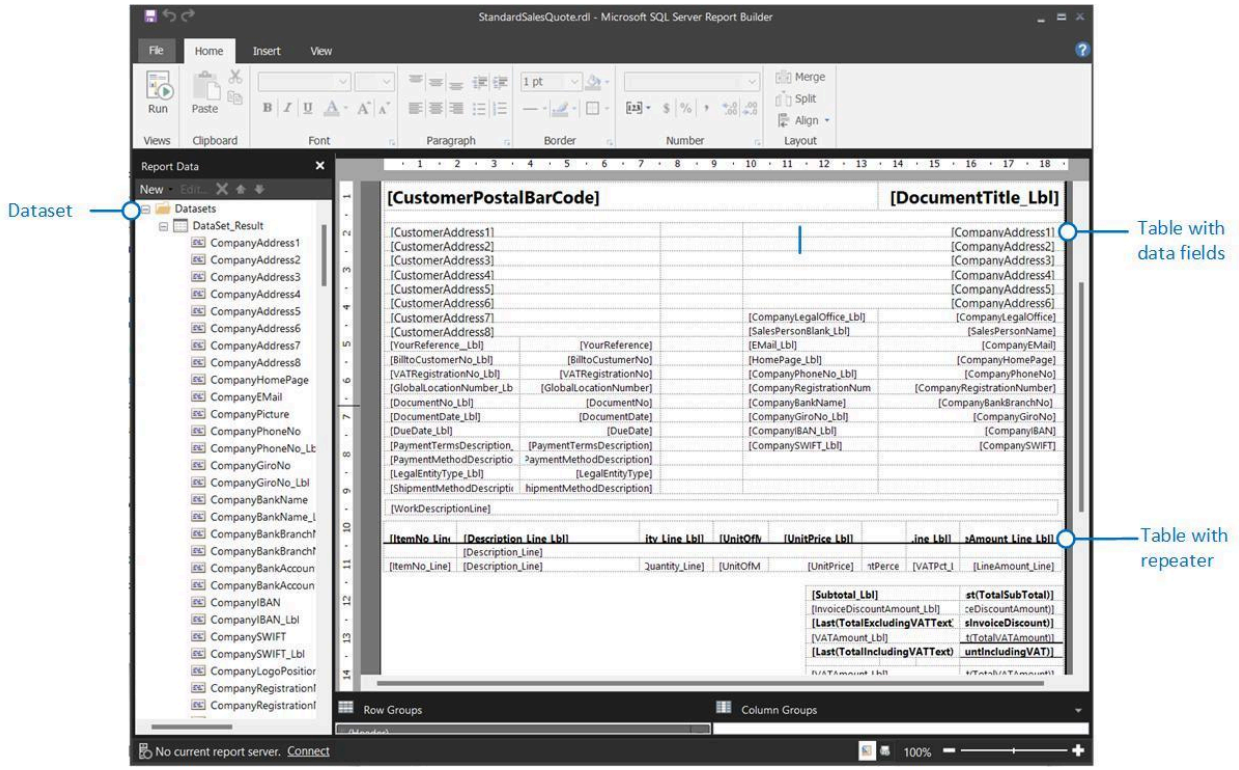
Module 5: Codeunits and Business Logic — 5 Hours

- Codeunit structure and reusable procedures
- Record operations: Insert, Modify, Delete, and Find
- Business validations and transaction handling
- Calling procedures across objects
- Error handling and reusable business logic
- Implementing business requirements through codeunits



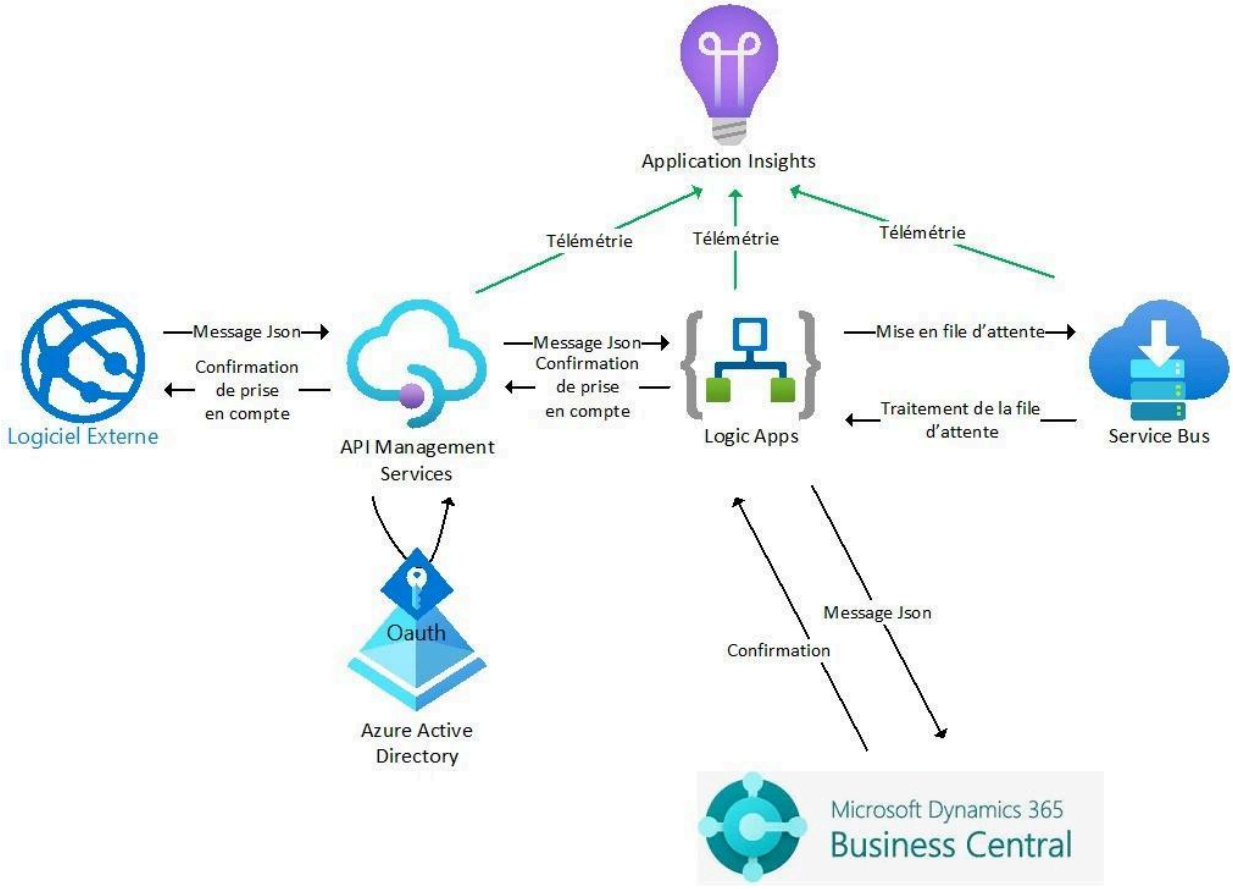
Module 6: Events and Event Subscribers — 5 Hours

- Event-driven development in Business Central
- Integration events and business events
- Event publishers and subscribers
- Subscribing to standard application events
- Extending standard processes without modifying base code
- Scenario-based event implementation



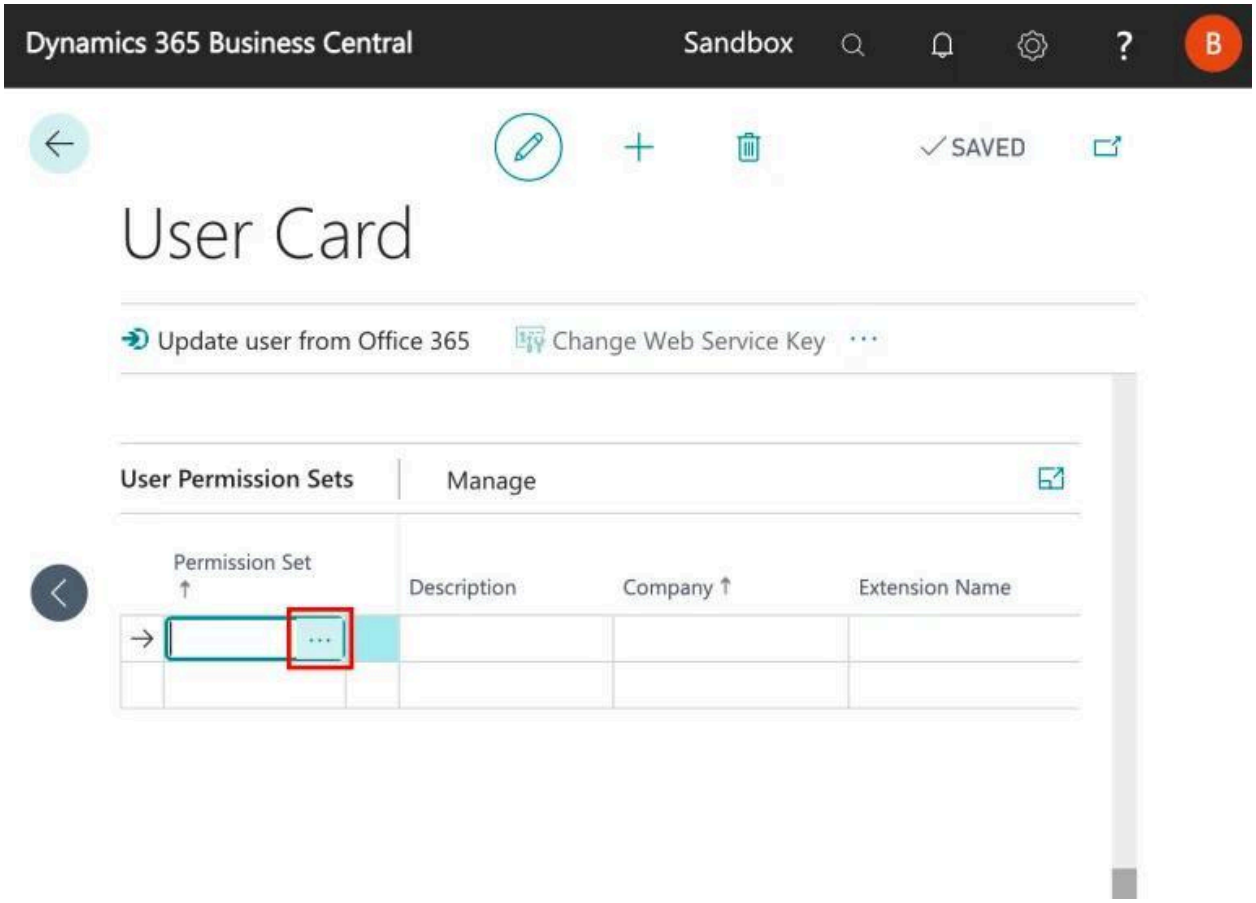
Module 7: Reports and Report Extensions — 3 Hours

- Report objects and data items
- Request pages and report triggers
- Dataset development
- Word and RDLC layout concepts
- Report extensions and practical reporting scenarios



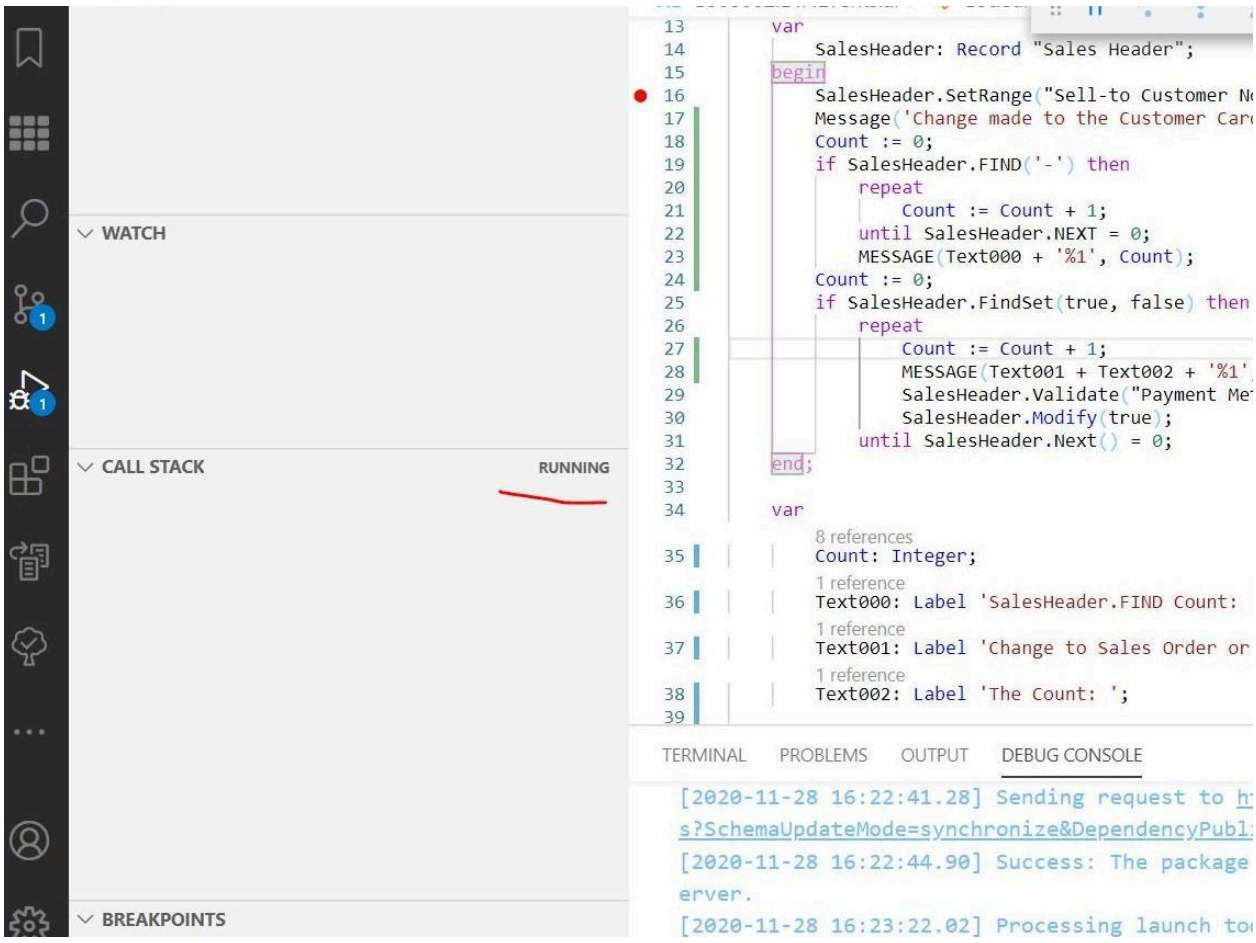
Module 8: APIs, Web Services, and Integrations — 5 Hours

- Standard and custom APIs
- API pages and API queries
- REST methods and JSON payloads
- Authentication and authorization concepts
- Exposing and consuming web services
- Integration testing with external applications



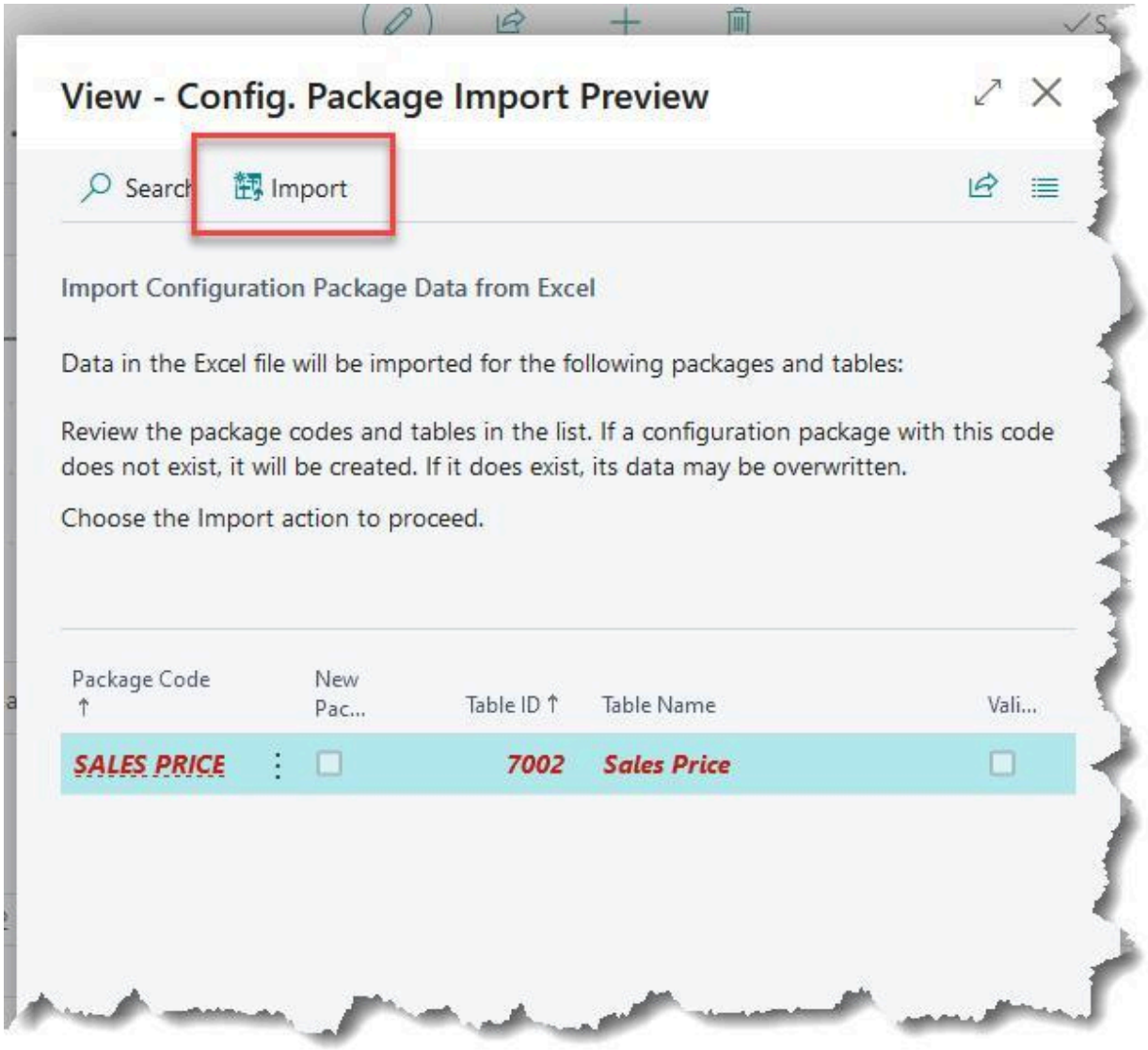
Module 9: Permissions and Security — 2 Hours

- Permission sets and permission set extensions
- Object and data access permissions
- Least-privilege security principles
- Troubleshooting permission-related errors



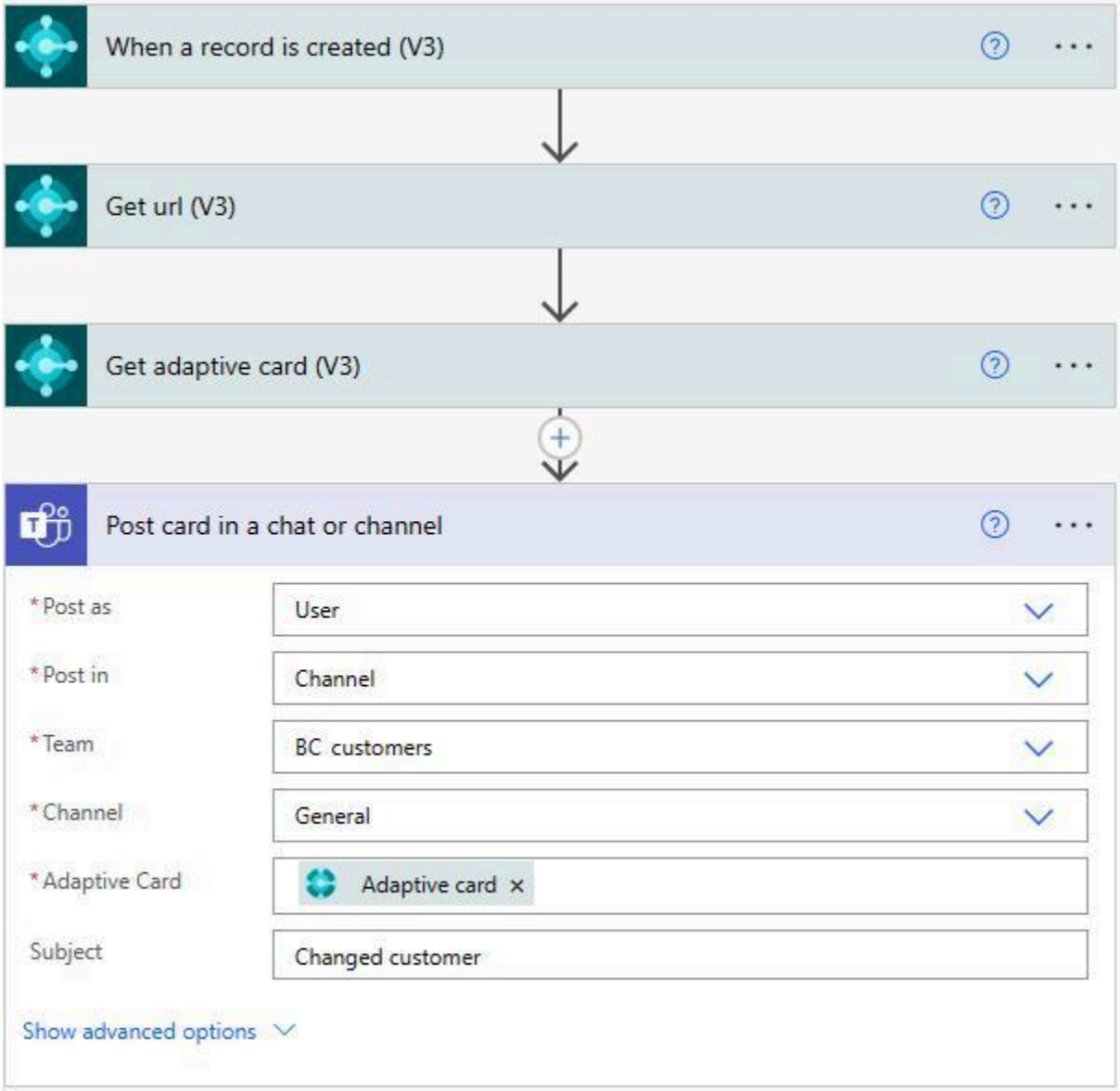
Module 10: Debugging and Error Handling — 3 Hours

- Debugging AL code and setting breakpoints
- Inspecting variables and execution flow
- Diagnosing runtime and validation errors
- Error messages and troubleshooting techniques
- Debugging practical development scenarios



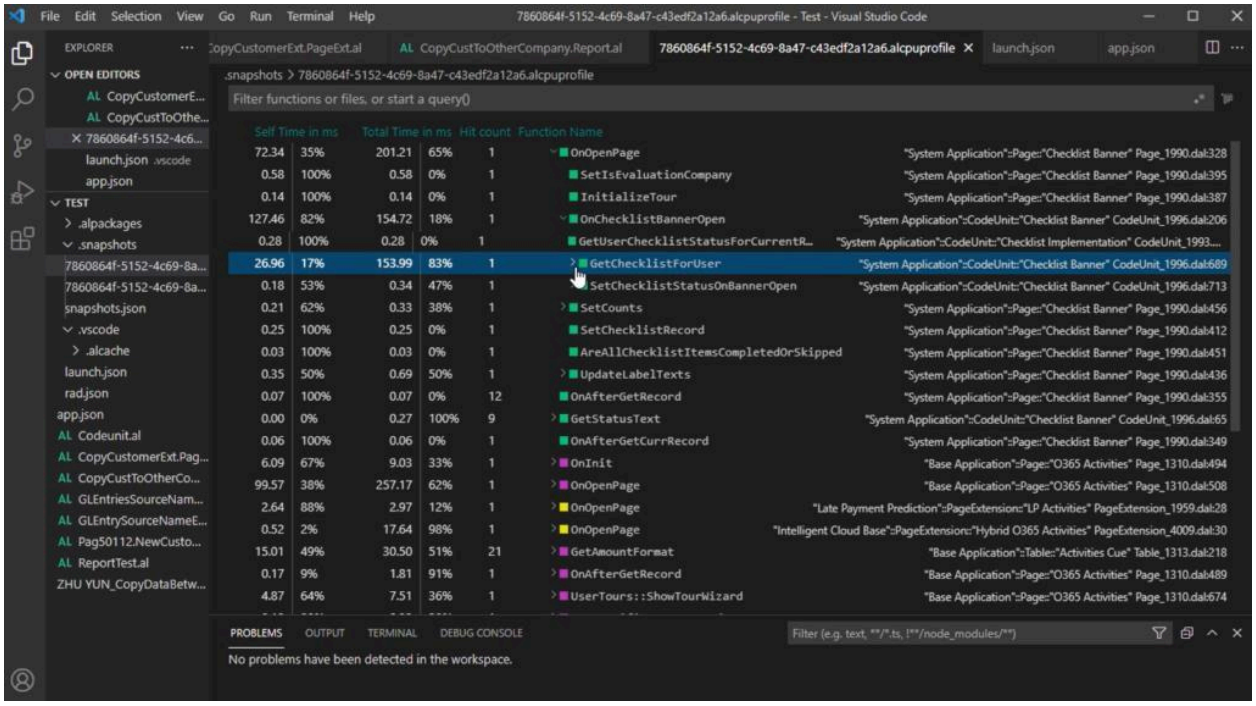
Module 11: Data Migration and Configuration — 2 Hours

- Configuration packages and data import/export
- Excel-based data preparation
- Data validation and migration troubleshooting
- Data migration considerations for implementations



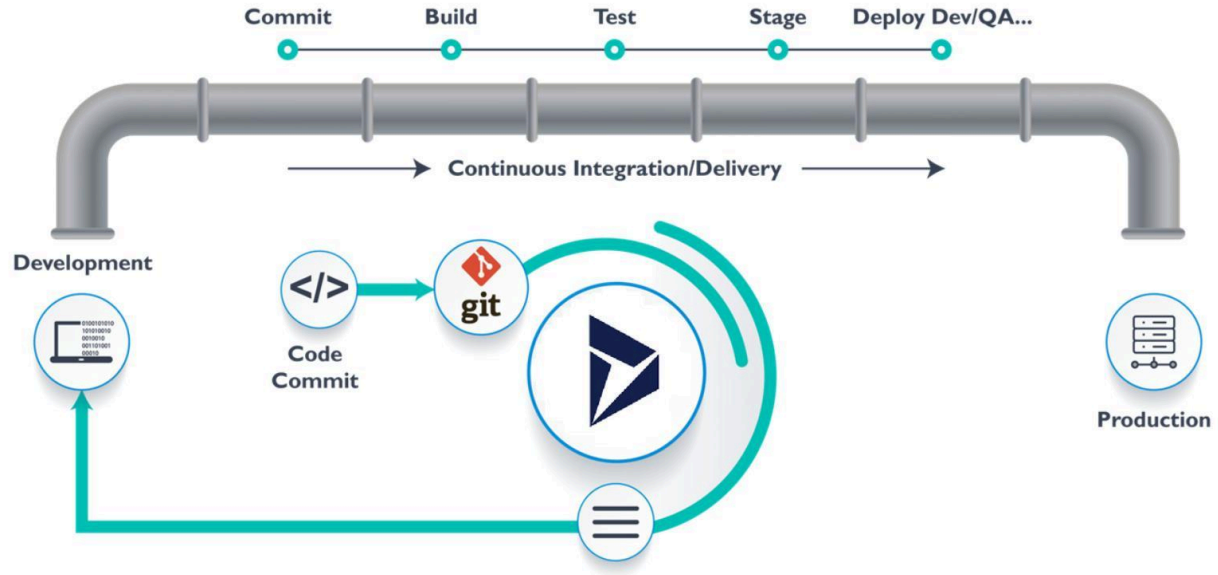
Module 12: Power Platform Integration — 2 Hours

- Business Central integration capabilities
- Connecting Business Central with Power Automate
- Using connectors and APIs
- Example business-process automation



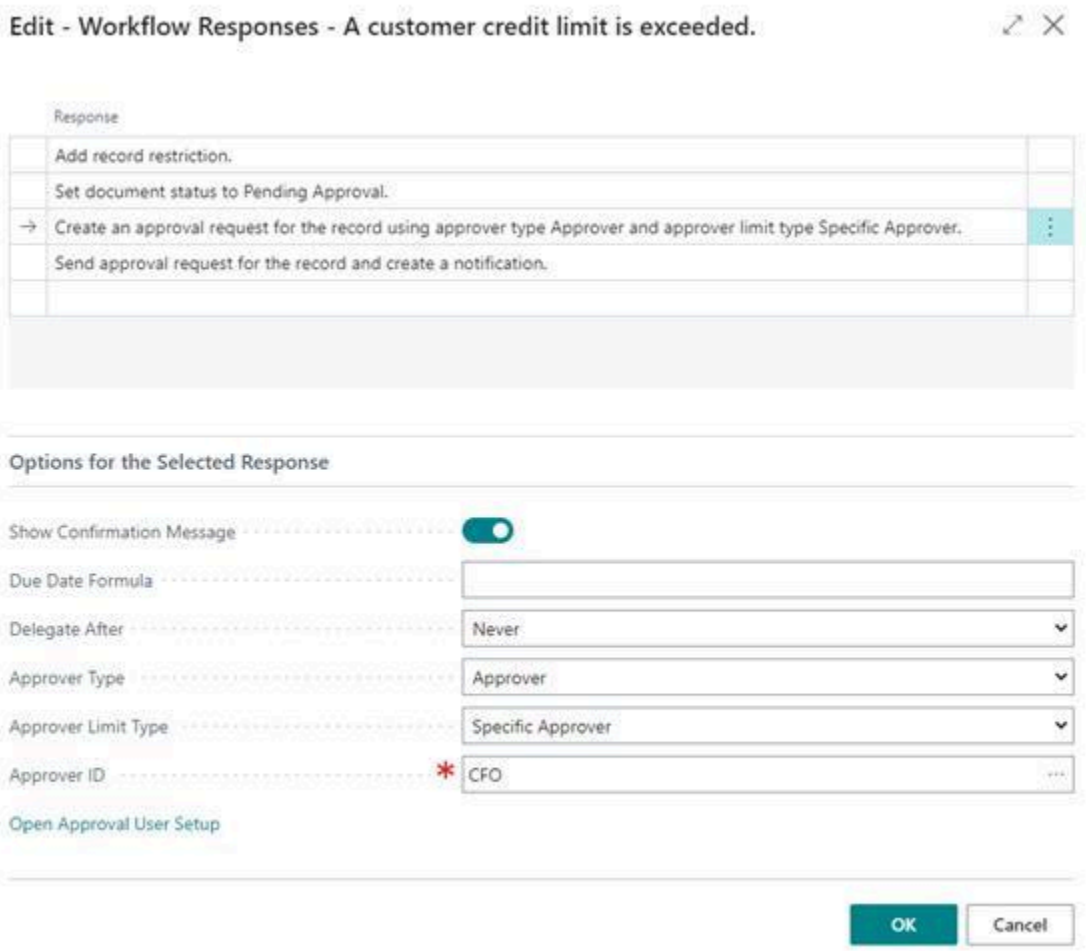
Module 13: Performance Optimization and Best Practices — 2 Hours

- Efficient record retrieval and filtering
- Reducing unnecessary database operations
- AL coding standards and maintainability
- Performance troubleshooting and optimization principles



Module 14: Version Control, CI/CD, and Deployment — 2 Hours

- Git fundamentals and source control
- AL project versioning
- Build and validation pipeline concepts
- Packaging and publishing extensions
- Sandbox testing and production deployment considerations



Module 15: End-to-End Project and Assessment — 3 Hours

- Analyze a sample business requirement
- Design and build a custom extension
- Implement tables, pages, and business logic
- Apply event subscribers and validation
- Test the solution and demonstrate the implementation
- Review, assessment, and feedback

Curriculum hour distribution

Module	Hours
1. Environment Setup and Architecture	2
2. AL Programming Fundamentals	4
3. Tables and Table Extensions	5
4. Pages and Page Extensions	5
5. Codeunits and Business Logic	5
6. Events and Event Subscribers	5
7. Reports and Report Extensions	3
8. APIs, Web Services, and Integrations	5
9. Permissions and Security	2
10. Debugging and Error Handling	3
11. Data Migration and Configuration	2

12. Power Platform Integration	2
13. Performance Optimization	2
14. Version Control, CI/CD, and Deployment	2
15. End-to-End Project and Assessment	3
Total	50 hours

Hands-on project

Customer Credit Approval Extension

Students will build a sample extension that introduces additional customer credit controls. The project can include:

- Custom fields on the Customer table.
- A page extension to display and maintain the fields.
- A codeunit to implement credit validation.
- An event subscriber to enforce the validation at the appropriate point in the business process.
- A custom API or integration scenario.
- Permission configuration and testing.
- Debugging, packaging, and sandbox deployment.

This project helps students connect multiple modules and understand how individual AL objects work together in a practical solution.

Why choose SRNTS?

- Structured learning from basic to advanced technical topics.
- Strong emphasis on practical coding and implementation scenarios.

- Guidance from an experienced Business Central community trainer.
- Exposure to common development challenges and troubleshooting.
- A final project to reinforce concepts covered during the course.

Ready to upskill in Microsoft Dynamics 365 Business Central?

Contact SRNTS to register your interest and receive details about the upcoming batch, confirmed schedule, enrollment, and training fee.

Please go through below folder for reference recording.

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