SAP Build Apps LCNC Training || SAP Build Workzone and Apps Course

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Target Audience: You are working as an SAP Consultant, Functional or ABAP Consultant in companies. You have been asked by customers to offer a solution for building apps for mobile and web in the cloud. Also, since most customers are moving to cloud, they want you to connecting Cloud and On-premise systems. Propose SAP Build for Clean-core application development and integration with BPA.

Prerequisites- Basic understanding of SAP*

Duration: 32 Hours – A promise of no copy paste

▶ **What you get by joining our training**

- 32 Hours of Detailed Lecture with Videos
- Support for issues and deployment (no job support)
- Presentation and Whiteboards
- End to end Business apps mtar files exported from training
- Best-in-class cutting edge content
- Latest concepts on Business Technology Platform
- End to End development with integration S/4HANA and CAP applications
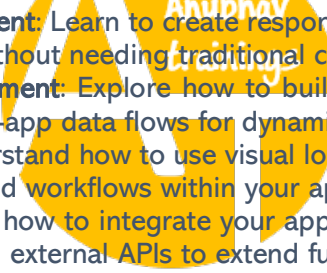
Our Course Page:
https://www.anubhavtrainings.com/btp-build-apps-training

https://www.anubhavtrainings.com/sap-build-process-automation

▶ About the Course

SAP Build Apps is an intuitive, low-code application development platform that enables business users and developers to rapidly create enterprise-grade web and mobile applications without writing extensive code. Designed to accelerate innovation, it provides a visual development environment, reusable components, and built-in integration capabilities with SAP and third-party systems. SAP Build Apps empowers teams to deliver customized digital solutions efficiently, supporting agile development and seamless collaboration across business and IT in a secure, scalable cloud environment.

▶ In this Training of SAP Build Apps, we will:

In this course, you will learn how to leverage SAP Build Apps to rapidly design, develop, and deploy web and mobile applications with little to no code. Starting from simple UI creation and progressing to more advanced app logic, data modelling, and system integrations, the course guides you through building fully functional, enterprise-ready applications that meet real business needs.
By the end of the course, you'll have a solid grasp of how to use SAP Build Apps to create scalable, user-friendly applications that can integrate seamlessly with SAP and third-party systems.

Key areas you'll focus on include:

1. **Visual Application Development:** Learn to create responsive, professional-grade apps using a drag-and-drop interface without needing traditional coding skills.
2. **Data Modelling and Management:** Explore how to build data models, connect to external data sources, and manage in-app data flows for dynamic application behavior.
3. **Logic and Automation**: Understand how to use visual logic tools to define user interactions, business rules, and automated workflows within your apps.
4. **System Integration**: Discover how to integrate your applications with SAP systems (such as SAP S/4HANA, SAP BTP) and external APIs to extend functionality.
5. **Deployment and Collaboration**: Learn how to test, publish, and share your applications across teams, while collaborating efficiently through version control and lifecycle management.

By the end of this course, you'll have developed the hands-on skills needed to build, customize, and deploy powerful business applications using SAP Build Apps. You'll be able to support digital transformation efforts, enhance user experiences, and deliver business value with greater speed and agility.

COURSE CONTENT (UNIT WISE)

Unit 1 - SAP BTP Introduction (Demo Session)

- Difference between On-premise and cloud system
- What does the cloud offers?
- Advantages of SAP BTP
- BTP product overview
- [Hands-on] Setting up BTP account
- BTP pricing model
- BTP Account Overview
- BTP Environment, Subscriptions, Services
- BTP Service Discovery Center

Unit 2 – Introduction to SAP Build

- What is fusion team?
- Key role of a developer with LCNC development
- What is SAP Build?
- SAP Build offering
- What is Build work zone
- [Hands-on] Setting up SAP Build work zone

Unit 3 – SAP Build Apps

- What is Business Apps
- Core capabilities
- Who is build apps for?
- SAP Build app use-cases
- SAP UI5 v/s Build Apps
- Key roles
- Client Server Model
- Build App design/runtime

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- Setting up SAP Build apps using booster
- Core components – a walk through

Unit 4 – Bar code Scanner App – P1

- Use case – barcode scanner app
- Introduction to builder area
- Logical flows in Build Apps
- Adding Barcode scanner feature to build apps
- What is JSON
- What is API
- SAP Business API HUB
- Open APIs
- Example API for sample scenario

Unit 5- Bar code Scanner App – P2

- Build Apps – REST API Integration
- Integrations
- App state in build apps
- Types of dynamic variables in Build Apps
- Complete the scenario and test with test data

Unit 6- Working with Container and Binding with Multiple items

- Understanding Data sources in Build Apps
- Types of data resources
- Additional data resources
- What is BTP destination?
- Create destination to consume data from SAP system – open OData API
- Understanding Image extraction
- Scenario – Shopping cart app
- Working with containers
- Integration with OData API using BTP destination
- Binding Container with multiple elements to create clone
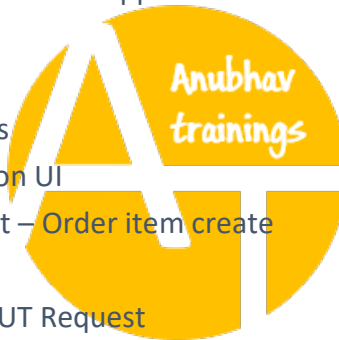- Working with component styles

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Unit 7- Drill Down to Product Details

- Creating custom container with elements
- Kinds of data variables
- Page parameters
- Flow function
- Simple v/s Multiple flow
- Formula function

Unit 8- Store data in Server – Cart

- Adding Search functionality to list
- Create Back navigation – user interaction
- Create new Cart Order on the launch
- Using Spinner element in SAP Build apps
- Working with App variables
- Adding Cart Screen
- Working with Row Elements
- Adding Drop down control on UI
- Adding new products to cart – Order item create
- Calculation of total value
- Updating order amount – PUT Request
- Clear the App Cache
- Interview questions

Unit 9- Interview Q

- Interview questions
- Align the content
- Updating order amount – PUT Request
- Clear the cart
- Introduction to Build Process Automation
- Product Overview
- Setting up SAP Build Process Automation
- Core Components SAP Build Process Automation

Unit 10 - Design Order Approval Process

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- Assigning the Role to user for SAP Build BPA
- Create the Order Approval business process
- Understanding My Inbox App
- Configure the destination **sap_process_automation_service**
- Install POSTMAN tool
- Deploy the Business process to BTP
- Test the business process

Unit 11- Activating My Inbox App

- Configure postman tool
- Explore the BPA APIs
- Extract the JWT token from the BTP XSUAA
- Use the token to trigger the API

Unit 12- Calling Process from Build Apps

- Create destination sap_process_automation_service_user_access
- Publish process to library
- Enable Integration of process from library
- Call the BPA process from Build Apps
- Test the App end to end

Unit 13- Deploy the App to SAP BTP and configure in Build work zone

- Publish the App
- Create deployable version
- Deploy the app
- Configure tile on Build work zone
- Create Catalog, Group
- Add tile to group
- Assign role to user
- Integrate the Build app with Build work zone

Unit 14- Setting up Cloud Connector

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- What is cloud connector
- Why we need the cloud connector
- How to identify the details of your SAP S/4HANA backend system
- Installing cloud connector
- Connect to your backend system
- Register CC to SAP BTP Account and check
- Adding backend system for handshake
- Testing the CC connection

CC Link

https://tools.hana.ondemand.com/#cloud

Unit 15- Connect to S/4HANA and Explore API

- How to get server access from Anubhav Trainings
- Create destination to our SAP system in BTP
- Enable destination in Build cockpit
- Explore SAP standard API_BUSINESS_PARTNER from API HUB configuration
- Create action project in SAP Build
- Test the project
- Publish Action project

Unit 16 – Dynamic Drop down

- Understanding the use case
- Check the Standard Business Partner API
- Enable Actions in Build Apps
- Create Custom list variables to hold values
- Calling data actions and mapping to custom variables
- Binding drop down with custom list variable
- Display dynamic drop down values

Unit 17 – Working with more controls

- Adding colours to the page
- Dependency establishment with MS
- Enable Mobile Service for Build Apps
- Implementing spinner control

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- SAP Mobile Service
- Use of MS with Build Apps
- Working with marketplace

Unit 18 - The APK Build for Android

- Provide Translation Support for app
- Translate content and test the app
- Recap
- Create Android Build Configuration
- Create keystore signing certificate using Java
- Use SAP mobile service to build APK
- Install and test APK for application

Unit 19 - Integration with Firebase

- How to manage versioning of the app in SAP Build Apps
- What is google firebase
- Create firebase account
- Our use case
- Create database collection in firebase with no SQL db
- Add authentication to firebase app
- Add integration to SAP Build with firebase app
- Call DB of the fire base
- Show data in SAP Build Apps

Unit 20 - Working with Layout Design

- Create New Application – New SAP Build Apps Experience
- Use Case
- Design Front page of application
- Introduction to Build Cloud functions

Unit 21 - Using cloud functions

- Create entities
- Upload data to entities

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- Add new page to start learning journey
- Configure List to show course data
- Enhance standard list control to show additional data
- Create course detail page with formatting
- Adding Slider control
- Testing the App

Unit 22 - Working with JS

- Adding slider calculation feature with page variable
- Adding JS code in flow function
- Adding App variable to store course data
- Showing Basket of courses from app variable

Unit 23 - Working with Cloud Function

- What is Cloud Function
- Use Case
- Implement Cloud function to get record data
- Define input and output
- Deploy Cloud function
- Consume cloud function in Build Apps

Unit 24 - Working with offline store

- Introduction to offline store
- Create offline data table for orders
- Understanding deep entity
- Create page variable for deep entity
- Adding data to deep entity page variable
- Show the basket for orders
  Save data to cloud storage from local store

Unit 25 - Sync data from Offline

- Create table in cloud function for Orders
- Detect whether user is online or not
- Add a icon button on UI
- Write complex JS to format data – mass insert data

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- Store data in cloud
- Clear the local store

Unit 26 - Mass delete, Multi out, Charts

- How to delete mass data from local store
- Extract data from cloud functions
- How to return multiple output from node
- Combine data to accumulate
- Adding chart component
- Show the bar chart for total cost paid per course
- Show pie chart for total count per course

Unit 27 - Working with Maps

- Fixing the issue of Mass delete
- What is foursquare location API
- Create project and enable API key
- Explore the API configurations and URL
- Create New Project with requirement
- Integrate REST API with SAP Build Apps
- Show nearby places
- Drill down to view photos
- Embed Map control in Build apps with location coordinates

Unit 28 - Working with Maps

- Extract data from 4Square API – fixing issue
- Working with flatten data set
- Show nearby places
- Drill down to view photos
- Embed Map control in Build apps with location coordinates

Unit 29 - Working with Clean-core

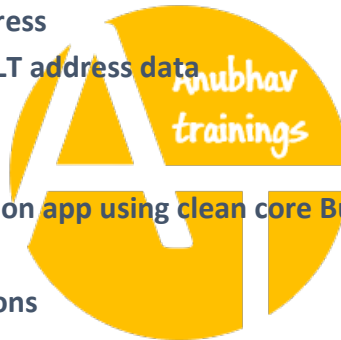- What are the current challenges in organization
- What is clean core

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- Benefits of clean core
- Elements of clean core
- Guidance by SAP
- SAP 3 Tier Extensibility Model
- SAP Business Accelerator HUB
- Explore BUSINESS PARTNERS API
- Our Use case

Unit 30 - Clean-core Implementation

- **Adding destination to consume APIs**
- **Create multi-page app**
- **Adding Form elements**
- **Extract entities and extended entities path**
- **Bind the data**
- **Create and change BP Address**
- **Logic to manage XXDEFAULT address data**
- **Dynamic style**
- **Validations**
- **Create Side by Side extension app using clean core Build Apps**

Unit 31 - Setting up Pro-code options

- Fixing CORS issue
- What is SAP BTP Pro-code option
- What is Build Code
- Setting up Build Code
- Setting up SAP HANA Cloud instance for pro code development
- What is SAP BTP CAP development

Unit 32 - Setting up Pro-code options

- Our use case
- Create data entities
- Create services
- Loading sample data
- Testing services locally

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- Deploy the app to SAP BTP
- Assign role to business user
- Create destination for consumption in Build Apps

Unit 33 - Consume CAP Service

- Our use case
- Consume CAP Service using Integration option
- Add home page
- Design and develop end to end Build app with CAP

Unit 34 - Working with PDF

- Design and Develop PDF support CAP
- Integrate Build apps with PDF
- Certification Guidance