

Course & Level: Software Engineering Level 3

Student Name:

Batch Time: 3-5PM

Module: MAUI Xamarin

1. What does MAUI stand for in .NET MAUI?

- A) Multi Application User Interface
- B) Multi-platform App UI
- C) Microsoft Application UI
- D) Modular App User Interface

2. Which platforms does .NET MAUI support natively?

- A) Windows and Linux
- B) Android and macOS only
- C) Android, iOS, macOS, and Windows
- D) Windows and iOS only

3. What is the primary programming language used in .NET MAUI?

- A) Java
- B) C++
- C) C#
- D) Kotlin

4. .NET MAUI is the evolution of which framework?

- A) Xamarin.Forms
- B) UWP
- C) WPF
- D) React Native

5. Which project type hosts all the platform-specific files in a .NET MAUI app?

- A) Class Library
- B) Razor Class Library
- C) Single Project
- D) Shared Project

6. What file contains the main entry point for a .NET MAUI app?

- A) App.xaml.cs
- B) Program.cs
- C) MainActivity.cs
- D) AppShell.xaml

7. Which XAML file is commonly used for shell-based navigation in .NET MAUI?

- A) App.xaml
- B) MainPage.xaml
- C) AppShell.xaml
- D) Program.cs

8. Which class is responsible for defining the shared UI logic and state?

- A) AppShell
- B) App
- C) ViewModel
- D) ContentPage

9. What layout arranges children in vertical or horizontal order?

- A) Grid
- B) AbsoluteLayout
- C) FlexLayout
- D) StackLayout

10. Which MAUI layout allows absolute positioning of children?

- A) StackLayout
- B) AbsoluteLayout
- C) Grid
- D) VerticalStackLayout

11. Which control is used to display text in MAUI?

- A) Entry
- B) Editor
- C) Label
- D) Button

12. Which control allows multiline text input?

- A) Label
- B) Entry
- C) Editor
- D) Button

13. What control is used for capturing user click actions?

- A) Label
- B) Button
- C) Switch
- D) Frame

14. What is the use of CollectionView in .NET MAUI?

- A) Storing data
- B) Executing commands
- C) Displaying a list of data
- D) Capturing user input

15. Which layout gives the best performance for lists?

- A) ListView
- B) CollectionView
- C) StackLayout
- D) ScrollView

16. Which layout supports rows and columns?

- A) Grid
- B) FlexLayout
- C) StackLayout
- D) HorizontalStackLayout

17. How do you define rows in Grid in XAML?

- A) RowDefinition
- B) GridRow
- C) Row
- D) RowLayout

18. Which of these can contain a single child?

- A) Grid
- B) FlexLayout
- C) StackLayout
- D) ScrollView

19. What layout adjusts according to content and wraps elements?

- A) StackLayout
- B) FlexLayout
- C) AbsoluteLayout
- D) Grid

20. What layout stacks elements from top to bottom by default?

- A) HorizontalStackLayout
- B) StackLayout
- C) Grid
- D) VerticalStackLayout

21. What is MVVM?

- A) Model View Variable Model
- B) Main View ViewModel
- C) Model View ViewModel
- D) Modular View ViewModel

22. In MVVM, where should business logic reside?

- A) View
- B) ViewModel
- C) Model
- D) App.xaml

23. What keyword in C# notifies the UI when a property changes?

- A) event
- B) notify
- C) OnChanged
- D) INotifyPropertyChanged

24. What directive is used to bind properties in XAML?

- A) @bind
- B) Bind()
- C) Binding
- D) DataBind

25. What base class is commonly used for ViewModel in MAUI?

- A) Page
- B) ContentView
- C) ObservableObject
- D) AppShell

26. Which command interface is used for handling user actions?

- A) ICommand
- B) IAction
- C) EventCommand
- D) ButtonCommand

27. What keyword is used in XAML to refer to the current class instance?

- A) this
- B) Self
- C) BindingContext
- D) x:Name

28. What is BindingContext used for?

- A) Controlling layout
- B) Linking UI with ViewModel
- C) Animating pages
- D) Styling UI

29. How do you assign a ViewModel to a Page in XAML?

- A) DataContext="{StaticResource}"
- B) ViewModel="{x:Bind}"
- C) BindingContext="{StaticResource}"
- D) x:ViewModel

30. What is a common pattern for notifying UI updates in properties?

- A) PropertyChanged()
- B) OnNotify()
- C) OnPropertyChanged()
- D) PropertyChangedTrigger()

31. What is the default navigation system in .NET MAUI Shell apps?

- A) Page.Push
- B) NavigationPage
- C) Shell navigation
- D) Frame.Navigate

32. Which method is used to navigate to another page using Shell?

- A) GoToAsync()
- B) Navigate()
- C) PushAsync()
- D) Redirect()

33. What lifecycle method runs when the app starts?

- A) OnStop()
- B) OnSleep()
- C) OnStart()
- D) OnCreate()

34. Which page class is used as a container for other pages?

- A) NavigationPage
- B) MainPage
- C) FlyoutPage
- D) TabbedPage

35. How do you pass data between pages in Shell navigation?

- A) Using global variables
- B) Through constructors
- C) Using query parameters
- D) Using public methods

36. What namespace includes platform-specific services?

- A) Microsoft.Maui.Controls
- B) Microsoft.Maui.Essentials
- C) Microsoft.Maui.Platform
- D) System.Platform

37. Where are styles and resources defined in MAUI?

- A) App.xaml
- B) MainPage.xaml
- C) AppShell.xaml
- D) Program.cs

38. What is the purpose of ResourceDictionary?

- A) Store themes
- B) Store application styles and resources
- C) Maintain app data
- D) Enable dark mode

39. Which platform API is used for accessing device sensors in MAUI?

- A) PlatformSensors
- B) Essentials
- C) Sensors
- D) Maui.Essentials

40. What method is called when the app is resumed?

- A) OnSleep()
- B) OnDestroy()
- C) OnResume()
- D) OnContinue()

41. How do you include fonts in a MAUI app?

- A) app.cs
- B) fonts.config
- C) In the MauiProgram.cs using ConfigureFonts
- D) resources.fonts.xaml

42. How are images added to a .NET MAUI app?

- A) Using MediaManager
- B) By referencing online URLs
- C) Adding to the Resources/Images folder
- D) By importing through NuGet

43. Which control is used for drawing 2D graphics in MAUI?

- A) GraphicsView
- B) ShapeView
- C) Canvas
- D) DrawingBoard

44. Which is the method to handle platform-specific behavior in MAUI?

- A) Device.InvokeOnMainThread
- B) Dependency Injection
- C) Partial class with #if directives
- D) Interface Segregation

45. What is Hot Reload in .NET MAUI?

- A) Faster app startup
- B) Automatic device detection
- C) Live updates to UI during development
- D) Cloud deployment tool

46. How do you inject services in MAUI?

- A) ServiceLocator
- B) ConfigureServices in Program.cs
- C) DependencyService
- D) ServiceProvider

47. What namespace is needed for dependency injection?

- A) Microsoft.Extensions.DependencyInjection
- B) System.DependencyInjection
- C) Maui.Injector
- D) Maui.Services

48. Which attribute is used for Shell route registration?

- A) [Route]
- B) [ShellRoute]
- C) [QueryProperty]
- D) [RegisterRoute]

49. How do you define a flyout menu item in Shell?

- A) FlyoutItem
- B) MenuItem
- C) ShellItem
- D) NavigationItem

50. Which method configures services and fonts in MAUI?

- A) App.xaml.cs
- B) AppShell.xaml
- C) Program.cs - CreateMauiApp
- D) Startup.cs