

Advance Programming Techniques (APT)

Lecture # 21

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Introduction

- In many applications, users need to **select dates**—for example, booking systems, invoice generation, attendance tracking, etc
- C# provides two controls for handling dates easily in **Windows Forms**:
 - **DateTimePicker** – used to select a **single date and/or time**
 - **MonthCalendar** – displays a **full month calendar** and allows selecting **one or more dates**

Common Properties

Property	Description
Format	Defines how the date/time is displayed
CustomFormat	Used when Format is set to Custom
MinDate / MaxDate	Sets allowable date range
Value	Gets or sets the selected date
ShowUpDown	Displays only a date selector without the dropdown calendar

MonthCalendar Control

- Adding the Control
 - From the Toolbox → drag **MonthCalendar** to your form
 - Set the **(Name)** property → e.g. mcHoliday

Common Properties

Property	Description
MaxSelectionCount	Maximum number of days the user can select
SelectionStart	First selected date
SelectionEnd	Last selected date
TodayDate	Highlights the current date
ShowToday	Whether to display today's date below the calendar
ShowTodayCircle	Whether to circle today's date

DateDateTimePicker vs MonthCalendar

Feature	DateTimePicker	MonthCalendar
Date selection	Single date/time	Single or multiple dates
Space	Compact	Takes more space
Custom format	Supported	Not supported
Time selection	Supported	Not supported