



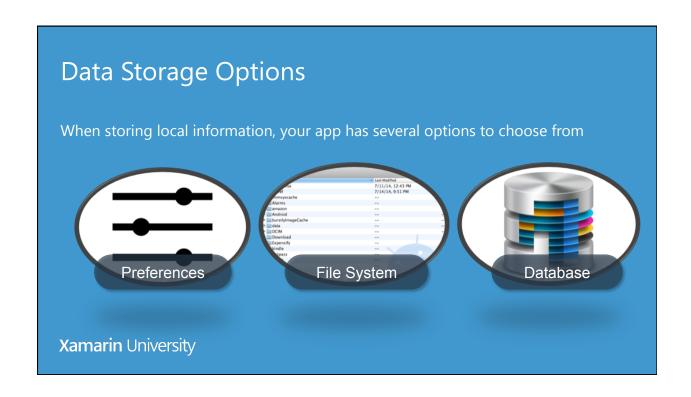
Agenda

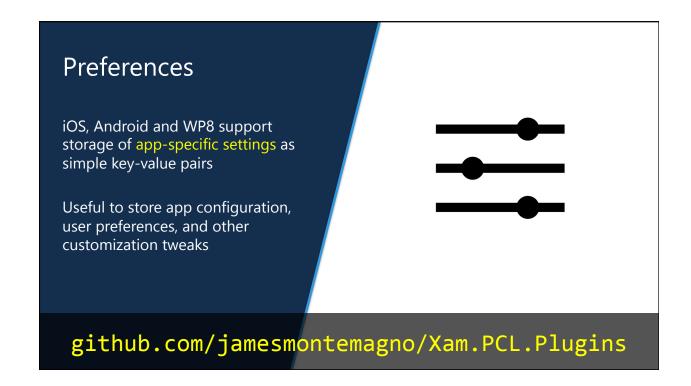
- 1. Data Alternatives
- 2. The File System
- 3. Working with Relational Data



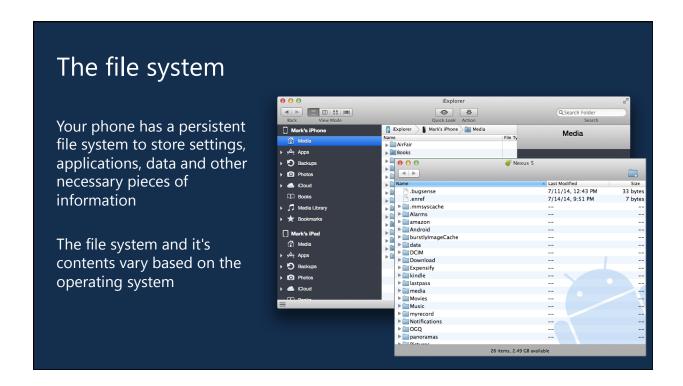
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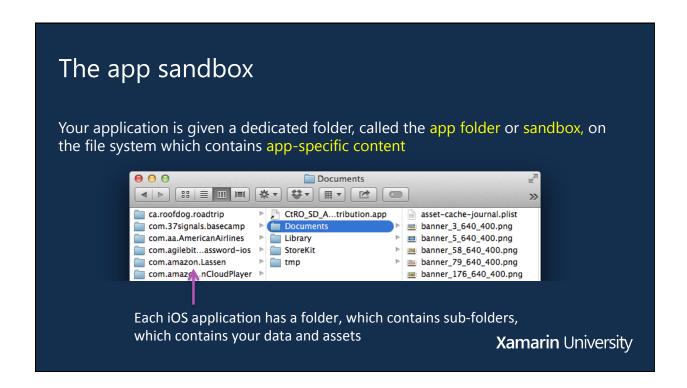












```
Working with Files and Folders

Can work directly with files and folders using classes in System.IO namespace

public IEnumerable<Task> LoadTasks(string filename)
{
    StreamReader reader = File.OpenText(filename);
    ...
}

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```

File Locations

Location you place writable files ("Documents") is platform-specific



<AppHome>/files



<AppHome>/Documents



<AppHome>\local

These locations are common, but other options are available (e.g. Android has a **database** folder, iOS has a **cache** folder, etc.)

File Locations

API to retrieve default documents folder is also platform-specific

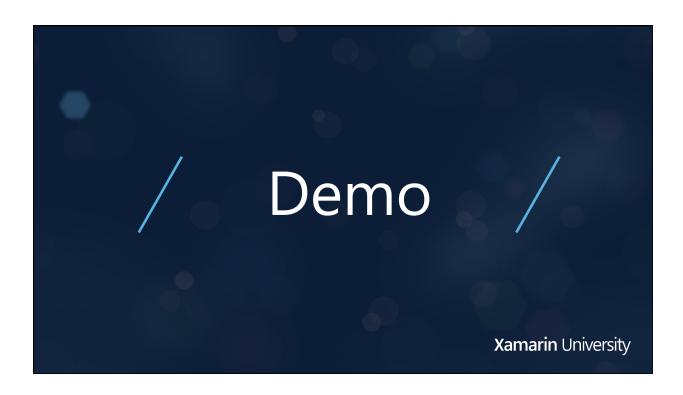




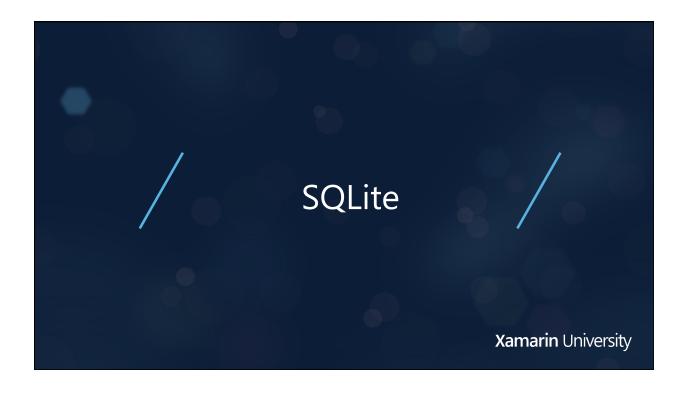
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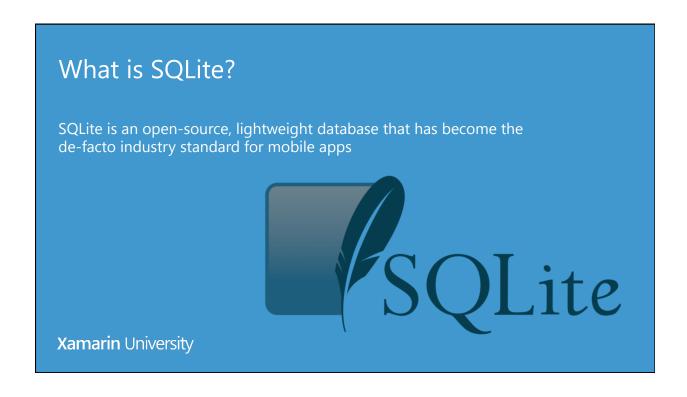
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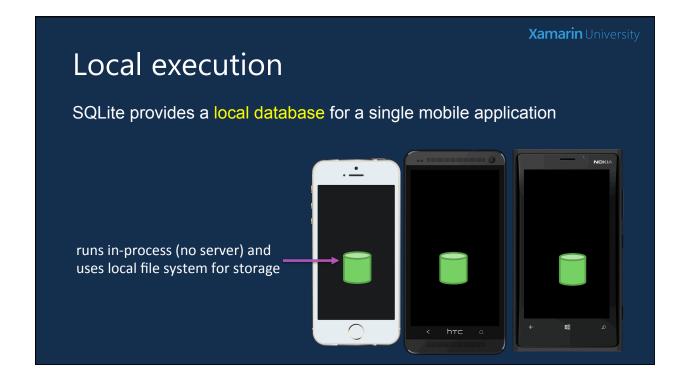
The code that determines the location of the file and the code to read and write the file will always be in your platform-specific projects in Xamarin.Forms

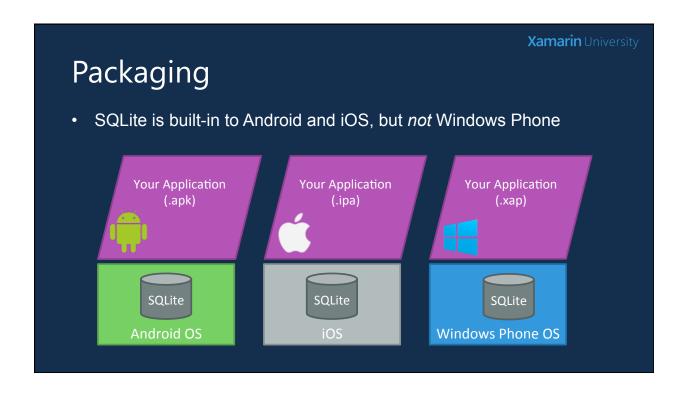


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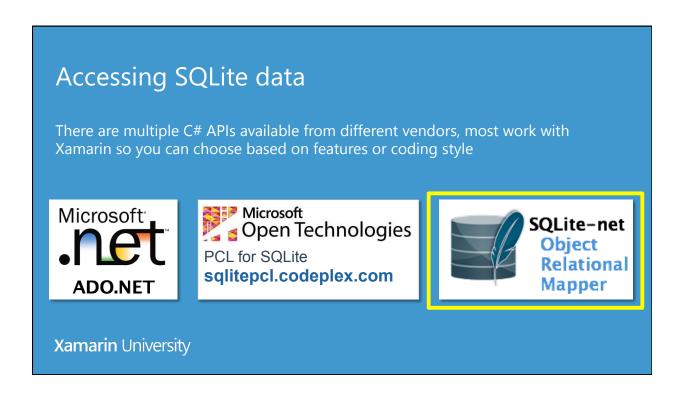


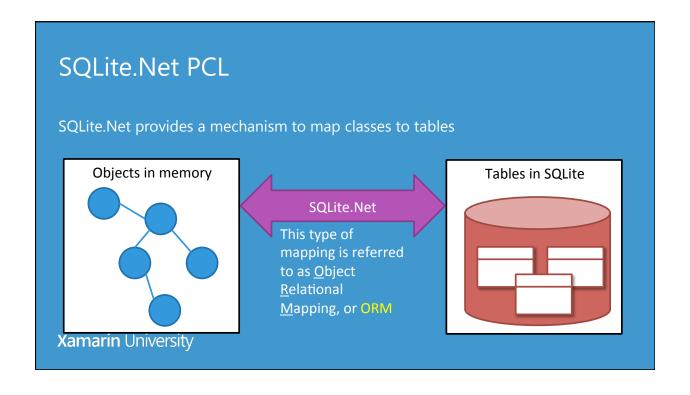












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Mapping classes to tables

Database schema is defined through attributes

```
[Table("checks")]
public class Check
{
    [PrimaryKey, AutoIncrement]
    public int Id { get; set; };
    public int CheckNumber { get; set; }
    ...
}
```

SQLite.Net uses the attributes to identify which table the class represents and how to map columns to properties

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Working with a database

Typical database steps involved in working with the database

- ① Create a SQLite connection
- Create the database tables (optional)
- 3 Execute queries and CRUD statements

