PV239 - 05 STORAGE

QUESTIONS

- What does DI mean and what is it's use?

- What does IoC mean and what is it's use?

GOALS

- Storing values

- Storing values securely

- Storing data locally

- Sending messages between different application parts

PREFERENCES

- For storing small amounts of values

- Limit for size of individual records

- Synchronous API

- Supported types:
  - bool
  - double
  - int
  - float
  - long
  - string
  - DateTime

PREFERENCES

- Android
  - Stored in Shared Preferences
  - Enables automatic backup to Google Drive – from Android 6.0 (API level 23)

- iOS
  - Stored in NSUserDefaults
  - Backup in iCloud

PREFERENCES

Demo

SECURE STORAGE

- Useful for storing small amounts of data securely (i.e. authentication token)

- Supports only strings

- Asynchronous API

SECURE STORAGE

- Android
  - Stored in Shared Preferences
  - Encrypted using a key from Android KeyStore

- iOS
  - Stored in KeyChain
  - Backup is on/off based on user's settings

SECURE STORAGE

Demo

SQLITE

- Nuget package **sqlite-net-pcl** from author **„Frank A. Krueger"**

- We need to set a path to the database file

- Basic ORM

- Basic operations

Table<T>	Query<T>
Insert	Execute
Update	ExecuteScalar
Delete	CreateTable

MAPPING

- Nuget package **Mapperly**

DATABASE

Demo

WHICH STORAGE OPTION WOULD YOU USE?

- Options: **Preferences, Secure Storage, Database**

- Examples:
  - Authentication
  - Selecting color schema
  - Saving a recipe
  - Saving settings about how items are ordered in a list (alphabetically, by date created...)