# uid: index title: ATM Application Documentation ATM Application

This project simulates a basic ATM system with functionality for users and admins.

### **Features**

- User registration and login
- Deposit and withdrawal
- View transaction history
- Admin controls (add/delete users)

### **Project Structure**

- ATMApp/ contains the source code
- ATMApp.Tests/ unit tests
- **Controllers/** API endpoints
- **Services/** business logic

### **Getting Started**

To run this app:

dotnet build
dotnet run --project ATMApp

# Namespace ATMApp.DTOs

### Classes

<u>BalanceResultDto</u>

**BaseDto** 

<u>CreateAccountDto</u>

<u>CreateUserDto</u>

<u>UpdateUserDto</u>

<u>UserLoginDTO</u>

### Class BalanceResultDto

```
Namespace: <u>ATMApp.DTOs</u>

Assembly: ATMApp.dll

public class BalanceResultDto

Inheritance

object ← BalanceResultDto
```

#### **Inherited Members**

 $\underline{object.Equals(object)} \ \ \ \ \ \underline{object.Equals(object, object)} \ \ \ \ \ \underline{object.MemberwiseClone()} \ \ \ \ \ \underline{object.ReferenceEquals(object, object)} \ \ \ \ \underline{object.ToString()} \ \ \ \underline{object.ToString()} \ \ \ \underline{object.ToString()} \ \ \underline{object.ToS$ 

### **Properties**

#### AccountId

```
public int? AccountId { get; set; }
Property Value
intば?
```

#### Balance

```
public decimal? Balance { get; set; }
Property Value
decimal??
```

### Message

```
public string Message { get; set; }
Property Value
string♂
```

### Success

```
public bool Success { get; set; }
```

Property Value

<u>bool</u> ♂

### Class BaseDto

```
Namespace: <u>ATMApp.DTOs</u>
Assembly: ATMApp.dll
 public class BaseDto
Inheritance
<u>object</u>  

✓  

← BaseDto
Derived
CreateUserDto, UpdateUserDto
Inherited Members
object.Equals(object) ♂, object.Equals(object, object) ♂, object.GetHashCode() ♂, object.GetType() ♂,
Properties
HolderName
 public string HolderName { get; set; }
Property Value
<u>string</u> □
Login
 public string Login { get; set; }
Property Value
```

### PinCode

```
public string PinCode { get; set; }
Property Value
string♂
```

### Role

```
public UserRole Role { get; set; }
```

Property Value

<u>UserRole</u>

### Class CreateAccountDto

Namespace: <u>ATMApp.DTOs</u>
Assembly: ATMApp.dll

public class CreateAccountDto

#### Inheritance

 $\underline{object} \square \leftarrow CreateAccountDto$ 

#### **Inherited Members**

 $\underline{object.Equals(object)} \ \ \ \ \ \underline{object.Equals(object, object)} \ \ \ \ \ \underline{object.MemberwiseClone()} \ \ \ \ \ \underline{object.ReferenceEquals(object, object)} \ \ \ \ \underline{object.ToString()} \ \ \ \underline{object.ToString()} \ \ \ \underline{object.ToString()} \ \ \underline{object.ToS$ 

### **Properties**

#### ClientID

```
public int ClientID { get; set; }
```

Property Value

int♂

#### IntialBalance

```
public decimal IntialBalance { get; set; }
```

Property Value

<u>decimal</u> □

#### **Status**

```
public AccountStatus Status { get; set; }
```

Property Value

<u>AccountStatus</u>

### Class CreateUserDto

```
Namespace: <u>ATMApp.DTOs</u>
Assembly: ATMApp.dll
 public class CreateUserDto : BaseDto
Inheritance
<u>object</u> ∠ ← <u>BaseDto</u> ← CreateUserDto
Inherited Members
BaseDto.Login, BaseDto.PinCode, BaseDto.HolderName, BaseDto.Role, object.Equals(object) ,
object.Equals(object, object) □ , object.GetHashCode() □ , object.GetType() □ ,
object.MemberwiseClone() ♂, object.ReferenceEquals(object, object) ♂, object.ToString() ♂
Properties
IntialBalance
 public decimal IntialBalance { get; set; }
Property Value
decimal ♂
Status
 public AccountStatus Status { get; set; }
```

Property Value

AccountStatus

# Class UpdateUserDto

```
Namespace: <u>ATMApp.DTOs</u>
Assembly: ATMApp.dll
 public class UpdateUserDto : BaseDto
Inheritance
<u>object</u> < <u>BaseDto</u> ← UpdateUserDto
Inherited Members
BaseDto.Role, object.Equals(object) ♂, object.Equals(object, object) ♂, object.GetHashCode() ♂,
<u>object.GetType()</u> ♂, <u>object.MemberwiseClone()</u> ♂, <u>object.ReferenceEquals(object, object)</u> ♂,
<u>object.ToString()</u> □
Properties
HolderName
 public string? HolderName { get; set; }
Property Value
Id
 public int Id { get; set; }
Property Value
int₫
```

#### Login

```
public string? Login { get; set; }
Property Value
PinCode
 public string? PinCode { get; set; }
Property Value
Status
 public AccountStatus? Status { get; set; }
```

AccountStatus?

# Class UserLoginDTO

```
Namespace: <u>ATMApp.DTOs</u>
Assembly: ATMApp.dll

public class UserLoginDTO

Inheritance

<u>object</u> ← UserLoginDTO
```

#### **Inherited Members**

 $\underline{object.Equals(object)} \ \ \ \ \ \underline{object.Equals(object, object)} \ \ \ \ \ \ \underline{object.GetHashCode()} \ \ \ \ \ \underline{object.GetType()} \ \ \ \ \ \ \underline{object.MemberwiseClone()} \ \ \ \ \ \underline{object.ReferenceEquals(object, object)} \ \ \ \ \ \underline{object.ToString()} \ \ \ \ \underline{object.ToString()} \ \ \ \ \ \underline{object.ToString()} \ \ \ \underline{object.ToString()} \ \ \ \underline{object.ToString()} \ \ \underline{objec$ 

### **Properties**

### Login

```
public string Login { get; set; }

Property Value

string♂
```

#### PinCode

```
public string PinCode { get; set; }
Property Value
string♂
```

# Namespace ATMApp.Data

### Classes

**ATMContext** 

<u>ATMContextFactory</u>

#### Class ATMContext

Namespace: <u>ATMApp.Data</u>
Assembly: ATMApp.dll

```
public class ATMContext : DbContext, IInfrastructure<IServiceProvider>,
IDbContextDependencies, IDbSetCache, IDbContextPoolable, IResettableService,
IDisposable, IAsyncDisposable
```

#### Inheritance

<u>object</u> □ ← <u>DbContext</u> □ ← ATMContext

#### **Implements**

<u>IInfrastructure</u> ♂ < <u>IServiceProvider</u> ♂ >, <u>IDbContextDependencies</u> ♂, <u>IDbSetCache</u> ♂, <u>IDbContextPoolable</u> ♂, <u>IResettableService</u> ♂, <u>IDisposable</u> ♂, <u>IAsyncDisposable</u> ♂

#### **Inherited Members**

<u>DbContext.Set<TEntity>()</u> □ , <u>DbContext.Set<TEntity>(string)</u> □ ,

DbContext.ConfigureConventions(ModelConfigurationBuilder) □ , DbContext.SaveChanges() □ ,

<u>DbContext.SaveChanges(bool)</u> dr., <u>DbContext.SaveChangesAsync(CancellationToken)</u> dr.,

<u>DbContext.SaveChangesAsync(bool, CancellationToken)</u> ♂, <u>DbContext.Dispose()</u> ♂,

<u>DbContext.DisposeAsync()</u> ♂, <u>DbContext.Entry<TEntity>(TEntity)</u> ♂, <u>DbContext.Entry(object)</u> ♂,

DbContext.Add < TEntity > (TEntity) ☑ , DbContext.AddAsync < TEntity > (TEntity, CancellationToken) ☑ ,

 $\underline{DbContext.Attach {<} TEntity {>} (\underline{TEntity}) {!} {!}} \ , \ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!} {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!} {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!} {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!} {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!} {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!} {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!} {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!} {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{TEntity}) {!}} \ , \\ \underline{DbContext.Update {<} TEntity {>} (\underline{DbContext.Update {<} TEntity {$ 

 $\underline{DbContext.Remove {<} TEntity}{\geq} (\underline{TEntity}){\scriptstyle \boxtimes} \text{ , } \underline{DbContext.Add} (\underline{object}){\scriptstyle \boxtimes} \text{ , }$ 

<u>DbContext.AddAsync(object, CancellationToken)</u> 

☑ , <u>DbContext.Attach(object)</u> 
☑ ,

<u>DbContext.Update(object)</u> ♂, <u>DbContext.Remove(object)</u> ♂, <u>DbContext.AddRange(params object[])</u> ♂,

 $\underline{DbContext.AddRangeAsync(params\ object[])} {}_{\square} \ , \ \underline{DbContext.AttachRange(params\ object[])}_{\square} \ , \ \underline{DbContext.AttachRange(p$ 

 $\underline{DbContext.AddRange(IEnumerable < object >)} \square \ ,$ 

 $\underline{DbContext.AttachRange(IEnumerable < object >)} \, \underline{\square} \,\, , \, \underline{DbContext.UpdateRange(IEnumerable < object >)} \, \underline{\square} \,\, , \, \underline{DbContext.UpdateRange(IEnumerable < object >)} \, \underline{\square} \,\, , \, \underline{DbContext.UpdateRange(IEnumerable < object >)} \, \underline{\square} \,\, , \, \underline{DbContext.UpdateRange(IEnumerable < object >)} \, \underline{\square} \,\, , \, \underline{DbContext.UpdateRange(IEnumerable < object >)} \, \underline{\square} \,\, , \, \underline{DbContext.UpdateRange(IEnumerable < object >)} \, \underline{\square} \,\, , \, \underline{DbContext.UpdateRange(IEnumerable < object >)} \, \underline{\square} \,\, , \, \underline{DbContext.UpdateRange(IEnumerable < object >)} \, \underline{\square} \,\, , \, \underline{DbContext.UpdateRange(IEnumerable < object >)} \, \underline{\square} \,\, , \, \underline{DbContext.UpdateRange(IEnumerable < object >)} \, \underline{\square} \,\, , \, \underline{DbContext.UpdateRange(IEnumerable < object >)} \, \underline{\square} \,\, , \, \underline{DbContext.UpdateRange(IEnumerable < object >)} \, \underline{\square} \,\, , \, \underline{DbContext.UpdateRange(IEnumerable < object >)} \, \underline{\square} \,\, , \, \underline{DbContext.UpdateRange(IEnumerable < object >)} \, \underline{\square} \,\, , \, \underline{DbContext.UpdateRange(IEnumerable < object >)} \, \underline{\square} \,\, , \, \underline{DbContext.UpdateRange(IEnumerable < object >)} \, \underline{\square} \,\, , \, \underline{DbContext.UpdateRange(IEnumerable < object >)} \, \underline{\square} \,\, , \, \underline{DbContext.UpdateRange(IEnumerable < object >)} \, \underline{\square} \,\, , \, \underline{DbContext.UpdateRange(IEnumerable < object >)} \, \underline{\square} \,\, , \, \underline{DbContext.UpdateRange(IEnumerable < object >)} \, \underline{\square} \,\, , \, \underline{DbContext.UpdateRange(IEnumerable < object >)} \, \underline{\square} \,\, , \, \underline{DbContext.UpdateRange(IEnumerable < object >)} \, \underline{\square} \,\, , \, \underline{DbContext.UpdateRange(IEnumerable < object >)} \, \underline{\square} \,\, , \, \underline{DbContext.UpdateRange(IEnumerable < object >)} \, \underline{\square} \,\, , \, \underline$ 

 $\underline{DbContext.RemoveRange(IEnumerable < object >)} \boxtimes \text{ , } \underline{DbContext.Find}(\underline{Type,params\ object[])} \boxtimes \text{ , } \\$ 

<u>DbContext.FindAsync(Type, params object[])</u> ✓ ,

DbContext.FindAsync(Type, object[], CancellationToken) ☑, DbContext.Find<TEntity>(params object[]) ☑,

<u>DbContext.FindAsync<TEntity>(params object[])</u> ✓ ,

<u>DbContext.FindAsync<TEntity>(object[], CancellationToken)</u> □ ,

 $\underline{DbContext.FromExpression < TResult > (\underline{Expression} < \underline{Func} < \underline{IQueryable} < \underline{TResult} > >)\underline{rd} \ ,$ 

#### **Constructors**

#### ATMContext(DbContextOptions < ATMContext>)

```
public ATMContext(DbContextOptions<ATMContext> options)
```

**Parameters** 

options <u>DbContextOptions</u> < <u>ATMContext</u>>

### **Properties**

#### Account

```
public DbSet<Account> Account { get; set; }
```

Property Value

<u>DbSet</u> < <u>Account</u> >

#### **Transactions**

```
public DbSet<Transaction> Transactions { get; set; }
```

Property Value

DbSet <a>™</a> <a>Transaction></a>

#### User

```
public DbSet<User> User { get; set; }
```

#### Property Value

DbSet < < User >

#### **Methods**

#### OnModelCreating(ModelBuilder)

Override this method to further configure the model that was discovered by convention from the entity types exposed in <a href="DbSet<TEntity">DbSet<TEntity</a> roperties on your derived context. The resulting model may be cached and re-used for subsequent instances of your derived context.

protected override void OnModelCreating(ModelBuilder modelBuilder)

#### **Parameters**

#### modelBuilder ModelBuilder♂

The builder being used to construct the model for this context. Databases (and other extensions) typically define extension methods on this object that allow you to configure aspects of the model that are specific to a given database.

#### Remarks

If a model is explicitly set on the options for this context (via <u>UseModel(IModel)</u> ) then this method will not be run. However, it will still run when creating a compiled model.

See Modeling entity types and relationships 
☐ for more information and examples.

# Class ATMContextFactory

Namespace: <u>ATMApp.Data</u>

Assembly: ATMApp.dll

public class ATMContextFactory : IDesignTimeDbContextFactory<ATMContext>

#### Inheritance

<u>object</u> 

✓ ATMContextFactory

#### **Implements**

<u>IDesignTimeDbContextFactory</u> < <u>ATMContext</u>>

#### **Inherited Members**

<u>object.Equals(object)</u> , <u>object.Equals(object, object)</u> , <u>object.GetHashCode()</u> , <u>object.GetType()</u> , <u>object.MemberwiseClone()</u> , <u>object.ReferenceEquals(object, object)</u> , <u>object.ToString()</u>

#### **Methods**

#### CreateDbContext(string[])

Creates a new instance of a derived context.

public ATMContext CreateDbContext(string[] args)

#### **Parameters**

args <u>string</u> []

Arguments provided by the design-time service.

#### Returns

#### **ATMContext**

An instance of ATMContext.

# Namespace ATMApp.Interfaces

### **Interfaces**

<u>IAccountRepository</u>

<u>IAdminservices</u>

**IAuthService** 

**IClientService** 

<u>ITransactionRepository</u>

<u>luser</u>

# Interface IAccountRepository

Namespace: <u>ATMApp.Interfaces</u>

Assembly: ATMApp.dll

public interface IAccountRepository

#### **Methods**

CreateAccount(Account)

Task<Account> CreateAccount(Account account)

**Parameters** 

account **Account** 

Returns

<u>Task</u> < <u>Account</u> >

### DeleteAccountById(int)

Task<bool> DeleteAccountById(int accountId)

**Parameters** 

accountId <u>int</u>♂

Returns

Task♂ < bool♂ >

### GetAccountByClientID(int)

Task<Account> GetAccountByClientID(int clientId)

Parameters

clientId int

Returns

Task < Account>

GetAccountById(int)

Task<Account> GetAccountById(int id)

Parameters

id <u>int</u>♂

Returns

<u>Task</u> < <u>Account</u> >

### UpdateAccount(Account)

Task<Account> UpdateAccount(Account account)

**Parameters** 

account **Account** 

Returns

<u>Task</u> < <u>Account</u> >

### **Interface IAdminservices**

Namespace: <u>ATMApp.Interfaces</u>

Assembly: ATMApp.dll

public interface IAdminservices

#### **Methods**

AddUser(CreateUserDto)

Task<bool> AddUser(CreateUserDto createUserDto)

**Parameters** 

createUserDto CreateUserDto

Returns

Task♂<bool♂>

### DeleteUserAndAccount(int, string)

Task<bool> DeleteUserAndAccount(int userId, string confirmationInput)

**Parameters** 

userId int♂

confirmationInput <u>string</u>♂

Returns

Task Task

### GetAccount(int)

Task<Account> GetAccount(int id)
Parameters

id <u>int</u>♂

Returns

### GetUserByLogin(string)

Task<User> GetUserByLogin(string login)

**Parameters** 

login <u>string</u>♂

Returns

Task < < User >

### UpdateUser(UpdateUserDto)

Task<bool> UpdateUser(UpdateUserDto updateUserDto)

**Parameters** 

updateUserDto <u>UpdateUserDto</u>

Returns

Task < cool < c

### Interface IAuthService

Namespace: <u>ATMApp.Interfaces</u>

Assembly: ATMApp.dll

public interface IAuthService

#### **Methods**

Exit()

void Exit()

### Login(UserLoginDTO)

Task<User> Login(UserLoginDTO userLogin)

**Parameters** 

userLogin <u>UserLoginDTO</u>

Returns

Task < Color > User >

# Interface IClientService

Namespace: <u>ATMApp.Interfaces</u>

Assembly: ATMApp.dll

public interface IClientService

#### **Methods**

Deposit(int, decimal)

Task<bool> Deposit(int accountId, decimal amount)

**Parameters** 

accountId <u>int</u>♂

amount decimal♂

Returns

Task♂<bool♂>

### GetBalance(int)

Task GetBalance(int accountId)

**Parameters** 

accountId <u>int</u>♂

Returns

<u>Task</u> ☑

### GetTransactionHistory(int)

Task<List<Transaction>> GetTransactionHistory(int accountId)

**Parameters** 

accountId <u>int</u>♂

Returns

<u>Task</u> ♂ < <u>List</u> ♂ < <u>Transaction</u> > >

### Withdraw(int, decimal)

Task<bool> Withdraw(int clientID, decimal amount)

**Parameters** 

clientID <u>int</u>♂

amount <u>decimal</u> □

Returns

<u>Task</u> ♂ < <u>bool</u> ♂ >

# Interface ITransactionRepository

Namespace: <u>ATMApp</u>.<u>Interfaces</u>

Assembly: ATMApp.dll

public interface ITransactionRepository

#### **Methods**

AddTransaction(Transaction)

Task AddTransaction(Transaction transaction)

**Parameters** 

transaction <u>Transaction</u>

Returns

**Task** ☑

### GetTransactionsByAccountId(int)

Task<List<Transaction>> GetTransactionsByAccountId(int accountId)

**Parameters** 

accountId int♂

Returns

Task C Task C C Transaction >

### Interface luser

Namespace: <u>ATMApp.Interfaces</u>

Assembly: ATMApp.dll

public interface Iuser

### Methods

### AddUser(User)

void AddUser(User user)

**Parameters** 

user <u>User</u>

### GetAllPeople()

List<User> GetAllPeople()

Returns

<u>List</u> d < <u>User</u> >

# Namespace ATMApp.Migrations

### Classes

<u>CreateTablesAndRelations</u>

A base class inherited by each EF Core migration.

### Class CreateTablesAndRelations

Namespace: <u>ATMApp.Migrations</u>

Assembly: ATMApp.dll

A base class inherited by each EF Core migration.

```
[DbContext(typeof(ATMContext))]
[Migration("20250318031640_createTablesAndRelations")]
public class CreateTablesAndRelations : Migration
```

#### Inheritance

<u>object</u> ✓ ← <u>Migration</u> ✓ ← CreateTablesAndRelations

#### **Inherited Members**

Migration.InitialDatabase☑, Migration.TargetModel☑, Migration.UpOperations☑, Migration.DownOperations☑, Migration.ActiveProvider☑, object.Equals(object)☑, object.Equals(object, object)☑, object.GetHashCode()☑, object.GetType()☑, object.MemberwiseClone()☑, object.ReferenceEquals(object, object)☑, object.ToString()☑

#### Remarks

See <u>Database migrations</u> of for more information and examples.

#### **Methods**

### BuildTargetModel(ModelBuilder)

Implemented to build the <u>TargetModel</u> ☑.

```
protected override void BuildTargetModel(ModelBuilder modelBuilder)
```

#### **Parameters**

modelBuilder ModelBuilder⊡

The ModelBuilder to use to build the model.

Remarks

See <u>Database migrations</u> dr for more information and examples.

#### Down(MigrationBuilder)

Builds the operations that will migrate the database 'down'.

protected override void Down(MigrationBuilder migrationBuilder)

#### **Parameters**

migrationBuilder <u>MigrationBuilder</u> ☑

The <u>MigrationBuilder</u> data that will build the operations.

#### Remarks

That is, builds the operations that will take the database from the state left in by this migration so that it returns to the state that it was in before this migration was applied.

This method must be overridden in each class that inherits from <u>Migration</u> if both 'up' and 'down' migrations are to be supported. If it is not overridden, then calling it will throw and it will not be possible to migrate in the 'down' direction.

See <u>Database migrations</u> dr for more information and examples.

#### Up(MigrationBuilder)

Builds the operations that will migrate the database 'up'.

protected override void Up(MigrationBuilder migrationBuilder)

#### **Parameters**

migrationBuilder <u>MigrationBuilder</u> ☑

The MigrationBuilder derivation that will build the operations.

#### Remarks

That is, builds the operations that will take the database from the state left in by the previous migration so that it is up-to-date with regard to this migration.

This method must be overridden in each class that inherits from Migration ☑.

See <u>Database migrations</u> dr for more information and examples.

# Namespace ATMApp.Models

### Classes

<u>Account</u>

**Transaction** 

<u>User</u>

#### **Enums**

<u>AccountStatus</u>

<u>TransactionType</u>

<u>UserRole</u>

### **Class Account**

Namespace: <u>ATMApp.Models</u>
Assembly: ATMApp.dll

public class Account

Inheritance

object ← Account

#### **Inherited Members**

 $\underline{object.Equals(object)} \ \ \ \ \ \underline{object.Equals(object, object)} \ \ \ \ \ \underline{object.MemberwiseClone()} \ \ \ \ \ \underline{object.ReferenceEquals(object, object)} \ \ \ \ \underline{object.ToString()} \ \ \ \underline{object.ToString()} \ \ \ \underline{object.ToString()} \ \ \underline{object.ToS$ 

### **Properties**

#### ClientID

```
public int ClientID { get; set; }

Property Value
int♂

Id

public int Id { get; set; }
```

<u>int</u>♂

#### IntialBalance

Property Value

```
public decimal IntialBalance { get; set; }
Property Value
<u>decimal</u> ♂
Status
  public AccountStatus Status { get; set; }
Property Value
<u>AccountStatus</u>
Transactions
  public List<Transaction> Transactions { get; set; }
Property Value
<u>List</u> d' < <u>Transaction</u> >
User
  public User User { get; set; }
Property Value
```

User

34 / 76

# **Enum AccountStatus**

Namespace: <u>ATMApp.Models</u>

Assembly: ATMApp.dll

public enum AccountStatus

### **Fields**

Active = 0

Disabled = 1

### **Class Transaction**

Namespace: <u>ATMApp.Models</u>

Assembly: ATMApp.dll

```
public class Transaction
```

#### Inheritance

<u>object</u> < Transaction

#### **Inherited Members**

### **Properties**

#### Account

```
public Account Account { get; set; }
```

Property Value

**Account** 

#### AccountId

```
public int AccountId { get; set; }
```

Property Value

<u>int</u>♂

#### **Amount**

```
public decimal Amount { get; set; }
Property Value
<u>decimal</u> ♂
Id
 public int Id { get; set; }
Property Value
<u>int</u>♂
TimeStamp
 public DateTime TimeStamp { get; set; }
Property Value
Type
 public TransactionType Type { get; set; }
Property Value
<u>TransactionType</u>
```

# **Enum TransactionType**

Namespace: <u>ATMApp.Models</u>

Assembly: ATMApp.dll

public enum TransactionType

## **Fields**

Deposit = 0

Display = 2

Withdrawal = 1

## Class User

```
Namespace: <u>ATMApp.Models</u>
Assembly: ATMApp.dll

public class User
```

#### Inheritance

<u>object</u> 

✓ User

#### **Inherited Members**

<u>object.Equals(object)</u> ♂, <u>object.Equals(object, object)</u> ♂, <u>object.GetHashCode()</u> ♂, <u>object.GetType()</u> ♂, <u>object.MemberwiseClone()</u> ♂, <u>object.ReferenceEquals(object, object)</u> ♂, <u>object.ToString()</u> ♂

# **Properties**

#### Account

```
public Account? Account { get; set; }
```

Property Value

**Account** 

#### HolderName

```
public string HolderName { get; set; }
```

Property Value

Id

```
public int Id { get; set; }
Property Value
<u>int</u>♂
Login
 public string Login { get; set; }
Property Value
PinCode
 public string PinCode { get; set; }
Property Value
Role
 public UserRole Role { get; set; }
Property Value
<u>UserRole</u>
```

# **Enum UserRole**

Namespace: <u>ATMApp.Models</u>

Assembly: ATMApp.dll

public enum UserRole

## **Fields**

Admin = 1

Client = 0

# Namespace ATMApp.Repositories

## Classes

<u>AccountRepository</u>

<u>TransactionRepository</u>

<u>UserRepository</u>

### **Interfaces**

<u>IUserRepository</u>

# **Class AccountRepository**

Namespace: <u>ATMApp.Repositories</u>

Assembly: ATMApp.dll

public class AccountRepository : IAccountRepository

#### Inheritance

#### **Implements**

**IAccountRepository** 

#### **Inherited Members**

<u>object.Equals(object)</u> , <u>object.Equals(object, object)</u> , <u>object.GetHashCode()</u> , <u>object.GetType()</u> , <u>object.MemberwiseClone()</u> , <u>object.ReferenceEquals(object, object)</u> , <u>object.ToString()</u>

#### **Constructors**

AccountRepository(ATMContext)

public AccountRepository(ATMContext context)

**Parameters** 

context **ATMContext** 

## **Methods**

#### CreateAccount(Account)

This methode will create an Account in Account Repo

public Task<Account> CreateAccount(Account newAccount)

newAccount <u>Account</u>

Returns

<u>Task</u> d < <u>Account</u> >

### DeleteAccountById(int)

This methode will delete an Account by accountld in Account Repo

public Task<bool> DeleteAccountById(int accountId)

**Parameters** 

accountId <u>int</u>♂

Returns

<u>Task</u>♂<<u>bool</u>♂>

# GetAccountByClientID(int)

This methode will return an Account by clientld in Account Repo

public Task<Account> GetAccountByClientID(int clientId)

**Parameters** 

clientId <u>int</u>♂

Returns

Task < Account >

## GetAccountById(int)

This methode will return an Account by accountld in Account Repo

public Task<Account> GetAccountById(int id)

**Parameters** 

id <u>int</u>♂

Returns

<u>Task</u> < <u>Account</u> >

# UpdateAccount(Account)

This methode will update an Account by accountld in Account Repo

public Task<Account> UpdateAccount(Account account)

**Parameters** 

account **Account** 

Returns

Task < Account >

# **Interface IUserRepository**

Namespace: <u>ATMApp.Repositories</u>

Assembly: ATMApp.dll

public interface IUserRepository

### **Methods**

# AddUser(User)

Task<User> AddUser(User newUser)

**Parameters** 

newUser <u>User</u>

Returns

Task < < User >

# DeleteUserbyId(int)

Task<bool> DeleteUserbyId(int userId)

**Parameters** 

userId int♂

Returns

Task♂ < bool♂ >

## GetUserById(int)

Returns

Task < < User >

Task<User> GetUserById(int id) **Parameters** id <u>int</u>♂ Returns Task < < User > GetUserBylogin(string) Task<User> GetUserBylogin(string login) **Parameters** login <u>string</u>♂ Returns Task < < User > GetUserWithAccountByLogin(string) Task<User?> GetUserWithAccountByLogin(string login) **Parameters** login <u>string</u>♂

# UpdateUser(User)

Task<bool> UpdateUser(User user)

Parameters

user <u>User</u>

Returns

<u>Task</u>♂<<u>bool</u>♂>

# **Class TransactionRepository**

Namespace: ATMApp.Repositories

Assembly: ATMApp.dll

public class TransactionRepository : ITransactionRepository

#### Inheritance

<u>object</u> 

← TransactionRepository

#### **Implements**

**ITransactionRepository** 

#### **Inherited Members**

<u>object.Equals(object)</u> , <u>object.Equals(object, object)</u> , <u>object.GetHashCode()</u> , <u>object.GetType()</u> , <u>object.MemberwiseClone()</u> , <u>object.ReferenceEquals(object, object)</u> , <u>object.ToString()</u>

#### **Constructors**

TransactionRepository(ATMContext)

public TransactionRepository(ATMContext context)

**Parameters** 

context **ATMContext** 

#### **Methods**

### AddTransaction(Transaction)

This methode will add a transaction to an Account when ever the client draw or deposite money.

public Task AddTransaction(Transaction transaction)

transaction <u>Transaction</u>

Returns

<u>Task</u> ♂

# Get Transactions By Account Id (int)

public Task<List<Transaction>> GetTransactionsByAccountId(int accountId)

Parameters

 $account Id \ \underline{int} \, \underline{\square}$ 

Returns

<u>Task</u>♂ <<u>List</u>♂ <<u>Transaction</u>>>

# **Class UserRepository**

Namespace: <u>ATMApp.Repositories</u>

Assembly: ATMApp.dll

public class UserRepository : IUserRepository

#### Inheritance

<u>object</u> 

✓ UserRepository

#### **Implements**

**IUserRepository** 

#### **Inherited Members**

<u>object.Equals(object)</u> , <u>object.Equals(object, object)</u> , <u>object.GetHashCode()</u> , <u>object.GetType()</u> , <u>object.MemberwiseClone()</u> , <u>object.ReferenceEquals(object, object)</u> , <u>object.ToString()</u>

#### **Constructors**

UserRepository(ATMContext)

public UserRepository(ATMContext context)

**Parameters** 

context **ATMContext** 

### **Methods**

### AddUser(User)

This methode will return a User after we add the user to the database

public Task<User> AddUser(User user)

user <u>User</u>

#### Returns

Task < Color > User >

## DeleteUserbyId(int)

This methode will return a bool after we delete the user by Id

```
public Task<bool> DeleteUserbyId(int id)
```

**Parameters** 

id <u>int</u>♂

Returns

<u>Task</u>♂<<u>bool</u>♂>

## GetUserById(int)

This methode will return a User by Id

```
public Task<User> GetUserById(int id)
```

**Parameters** 

id <u>int</u>♂

Returns

Task < < User >

## GetUserBylogin(string)

This methode will return a User by login

```
public Task<User> GetUserBylogin(string login)
```

**Parameters** 

login <u>string</u>♂

Returns

<u>Task</u> < <u>User</u> >

### GetUserWithAccountByLogin(string)

This methode will return a User with their account by Login

```
public Task<User?> GetUserWithAccountByLogin(string login)
```

**Parameters** 

login <u>string</u>♂

Returns

Task < < User >

## UpdateUser(User)

This methode will return a bool after updating a user

```
public Task<bool> UpdateUser(User user)
```

**Parameters** 

user <u>User</u>

Returns

Task♂ < bool ♂ >

# Namespace ATMApp.Services

# Classes

<u>AdminServices</u>

**AuthService** 

ClientService

### Class AdminServices

Namespace: <u>ATMApp.Services</u>

Assembly: ATMApp.dll

public class AdminServices : IAdminservices

#### **Inheritance**

object 

← AdminServices

#### **Implements**

**IAdminservices** 

#### Inherited Members

<u>object.Equals(object)</u> ♂, <u>object.Equals(object, object)</u> ♂, <u>object.GetHashCode()</u> ♂, <u>object.GetType()</u> ♂, <u>object.MemberwiseClone()</u> ♂, <u>object.ReferenceEquals(object, object)</u> ♂, <u>object.ToString()</u> ♂

#### Constructors

AdminServices(ATMContext, IUserRepository, ITransactionRepository, IAccountRepository, IValidator<CreateUserDto>)

public AdminServices(ATMContext aTMContext, IUserRepository userRepository,
ITransactionRepository transactionRepository, IAccountRepository accountRepository,
IValidator<CreateUserDto> userValidator)

#### **Parameters**

aTMContext ATMContext

userRepository <u>IUserRepository</u>

transactionRepository <u>ITransactionRepository</u>

accountRepository <u>IAccountRepository</u>

userValidator | Validator < CreateUserDto >

### **Methods**

### AddUser(CreateUserDto)

This methode will add user in AdminSerivce.cs

```
public Task<bool> AddUser(CreateUserDto userDto)
```

**Parameters** 

userDto CreateUserDto

Returns

<u>Task</u>♂<<u>bool</u>♂>

## DeleteUserAndAccount(int, string)

This methode will Delete User and their account

```
public Task<bool> DeleteUserAndAccount(int accountId, string confirmationInput)
```

**Parameters** 

accountId int♂

confirmationInput <u>string</u>♂

Returns

Task Task

### GetAccount(int)

This methode will return a User after we add the user to the database

```
public Task<Account> GetAccount(int id)
```

### Parameters

id <u>int</u>♂

Returns

Task < Account >

## GetUserByLogin(string)

This methode will return a User by Login in AdminService

public Task<User> GetUserByLogin(string login)

**Parameters** 

login <u>string</u>♂

Returns

Task < < User >

## UpdateUser(UpdateUserDto)

This methode will a bool after updating a User in AdminService

public Task<bool> UpdateUser(UpdateUserDto updateUserDto)

**Parameters** 

updateUserDto UpdateUserDto

Returns

<u>Task</u>♂<<u>bool</u>♂>

### Class AuthService

Namespace: <u>ATMApp.Services</u>

Assembly: ATMApp.dll

public class AuthService : IAuthService

#### **Inheritance**

<u>object</u> 

✓ AuthService

#### **Implements**

**IAuthService** 

#### **Inherited Members**

<u>object.Equals(object)</u> , <u>object.Equals(object, object)</u> , <u>object.GetHashCode()</u> , <u>object.GetType()</u> , <u>object.MemberwiseClone()</u> , <u>object.ReferenceEquals(object, object)</u> , <u>object.ToString()</u>

#### **Constructors**

AuthService(IUserRepository, IValidator < UserLoginDTO > )

public AuthService(IUserRepository userRepository, IValidator<UserLoginDTO> validator)

#### **Parameters**

userRepository <u>IUserRepository</u>

validator | Validator < <u>UserLoginDTO</u> >

### **Methods**

#### Exit()

This methode will close the program

```
public void Exit()
```

# Login(UserLoginDTO)

This methode will login our users

public Task<User> Login(UserLoginDTO userLogin)

Parameters

userLogin <u>UserLoginDTO</u>

Returns

# Class ClientService

Namespace: <u>ATMApp.Services</u>

Assembly: ATMApp.dll

public class ClientService : IClientService

#### **Inheritance**

object 

← ClientService

#### **Implements**

**IClientService** 

#### **Inherited Members**

<u>object.Equals(object)</u> , <u>object.Equals(object, object)</u> , <u>object.GetHashCode()</u> , <u>object.GetType()</u> , <u>object.MemberwiseClone()</u> , <u>object.ReferenceEquals(object, object)</u> , <u>object.ToString()</u>

#### **Constructors**

ClientService(IAccountRepository, ITransactionRepository)

public ClientService(IAccountRepository accountRepository, ITransactionRepository)

#### **Parameters**

accountRepository <a href="Mailto:IAccountRepository">IAccountRepository</a>

transactionRepository <u>ITransactionRepository</u>

#### **Methods**

## Deposit(int, decimal)

This methode will return a bool after a client try to deposite money.

```
public Task<bool> Deposit(int clientId, decimal amount)
```

**Parameters** 

clientId <u>int</u>♂

amount <u>decimal</u> ☑

Returns

<u>Task</u>♂<<u>bool</u>♂>

### GetBalance(int)

This methode will return will display the current balance of the account.

```
public Task GetBalance(int clientId)
```

**Parameters** 

clientId <u>int</u>♂

Returns

**Task** ☑

### GetTransactionHistory(int)

This methode will return a list of transactions done by User using accountld

public Task<List<Transaction>> GetTransactionHistory(int accountId)

**Parameters** 

accountId <u>int</u>♂

Returns

# Withdraw(int, decimal)

This methode will allow the client to withdraw money

```
public Task<bool> Withdraw(int clientID, decimal amount)
```

Parameters

clientID <u>int</u>♂

amount <u>decimal</u>♂

Returns

<u>Task</u>♂<<u>bool</u>♂>

# Namespace ATMApp. Validators

## Classes

<u>AddNewuserValidator</u>

<u>UserLoginValidator</u>

### Class AddNewuserValidator

Namespace: <u>ATMApp.Validators</u> Assembly: ATMApp.dll public class AddNewuserValidator : AbstractValidator<CreateUserDto>, IValidator<CreateUserDto>, IValidator, IEnumerable<IValidationRule>, IEnumerable Inheritance object 
☐ ← AbstractValidator < CreateUserDto > ← AddNewuserValidator **Implements** IValidator < <u>CreateUserDto</u> >, IValidator, <u>IEnumerable</u> < IValidationRule >, <u>IEnumerable</u> < **Inherited Members** AbstractValidator < CreateUserDto > . Validate(CreateUserDto) , AbstractValidator < CreateUserDto > . ValidateAsync(CreateUserDto, CancellationToken) , AbstractValidator < CreateUserDto > . Validate(ValidationContext < CreateUserDto > ) , AbstractValidator < CreateUserDto > . ValidateAsync(ValidationContext < CreateUserDto > , CancellationToken) □ , AbstractValidator < CreateUserDto > . CreateDescriptor() , <u>AbstractValidator<CreateUserDto>.RuleFor<TProperty>(Expression<Func<CreateUserDto, TProperty>>)</u> ♂, <u>AbstractValidator<CreateUserDto>.Transform<TProperty, TTransformed></u> (Expression < Func < CreateUserDto, TProperty >>, Func < TProperty, TTransformed >) \( \text{\text{\$\sigma}} \) , <u>AbstractValidator<CreateUserDto>.Transform<TProperty, TTransformed></u> (Expression < Func < CreateUserDto, TProperty >>, Func < CreateUserDto, TProperty, TTransformed >) \( \text{\text{\$\sigma}} \) , AbstractValidator < CreateUserDto > . RuleForEach < TElement > (Expression < Func < CreateUserDto, IEnumerable < TElement >>>) ♂, AbstractValidator < CreateUserDto > . TransformForEach < TElement, TTransformed > (Expression < Func < CreateUserDto, IEnumerable < TElement > >>, Func < TElement, TTransformed >) \( \text{\text{\$\exititt{\$\text{\$\exititt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\ AbstractValidator < CreateUserDto > . TransformForEach < TElement, TTransformed > (Expression < Func < CreateUserDto, IEnumerable < TElement > >>, Func < CreateUserDto, TElement, TTransformed>)♂, AbstractValidator < CreateUserDto > .RuleSet(string, Action) ☑ , AbstractValidator < CreateUserDto > . When (Func < CreateUserDto, bool > , Action) , AbstractValidator < CreateUserDto > . When (Func < CreateUserDto, ValidationContext < CreateUserDto > , bool>, Action) ♂,

AbstractValidator < CreateUserDto > . Unless(Func < CreateUserDto, bool > , Action) & ,

<u>AbstractValidator<CreateUserDto>.Unless(Func<CreateUserDto, ValidationContext<CreateUserDto>, bool>, Action)</u> ♂,

AbstractValidator < CreateUserDto > .WhenAsync(Func < CreateUserDto, CancellationToken, Task < bool > > , Action) \( \text{\text{\$\sigma}} \) ,

<u>AbstractValidator<CreateUserDto>.WhenAsync(Func<CreateUserDto,</u>

<u>ValidationContext<CreateUserDto>, CancellationToken, Task<bool>>, Action)</u> ♂,

<u>AbstractValidator<CreateUserDto>.UnlessAsync(Func<CreateUserDto, CancellationToken, Task<bool>>,</u> <u>Action)</u> □,

AbstractValidator < CreateUserDto > . UnlessAsync(Func < CreateUserDto,

<u>ValidationContext<CreateUserDto>, CancellationToken, Task<bool>>, Action)</u> ✓ ,

AbstractValidator < CreateUserDto > . Include(IValidator < CreateUserDto > ) ,

<u>AbstractValidator<CreateUserDto>.Include<TValidator>(Func<CreateUserDto, TValidator>)</u> ,

AbstractValidator < CreateUserDto > . GetEnumerator(),

AbstractValidator < CreateUserDto > . EnsureInstanceNotNull(object) & ,

AbstractValidator < CreateUserDto > . PreValidate(ValidationContext < CreateUserDto > , ValidationResult) ,

Abstract Validator < Create User D to >. Raise Validation Exception (Validation Context < Create User D to >, the context is a context of the context of t

ValidationResult),

AbstractValidator < CreateUserDto > . OnRuleAdded(IValidationRule < CreateUserDto > ) ,

AbstractValidator < CreateUserDto > . CascadeMode ,

AbstractValidator < CreateUserDto > . ClassLevelCascadeMode ,

AbstractValidator < CreateUserDto > .RuleLevelCascadeMode , object.Equals(object) ,

<u>object.Equals(object, object)</u> ♂, <u>object.GetHashCode()</u> ♂, <u>object.GetType()</u> ♂,

object.MemberwiseClone() ☑ , object.ReferenceEquals(object, object) ☑ , object.ToString() ☑

#### **Constructors**

#### AddNewuserValidator()

public AddNewuserValidator()

# Class UserLoginValidator

Namespace: <u>ATMApp.Validators</u> Assembly: ATMApp.dll public class UserLoginValidator : AbstractValidator < UserLoginDTO > , IValidator < UserLoginDTO > , IValidator, IEnumerable < IValidation Rule > , IEnumerable Inheritance object 

← AbstractValidator < UserLoginDTO > ← UserLoginValidator **Implements** IValidator < <u>UserLoginDTO</u> >, IValidator, <u>IEnumerable</u> ✓ < IValidationRule >, <u>IEnumerable</u> ✓ **Inherited Members** AbstractValidator < UserLoginDTO > . Validate(UserLoginDTO) , AbstractValidator < UserLoginDTO > . ValidateAsync(UserLoginDTO, CancellationToken) , AbstractValidator < UserLoginDTO > . Validate(ValidationContext < UserLoginDTO > ) , AbstractValidator<UserLoginDTO>.ValidateAsync(ValidationContext<UserLoginDTO>, CancellationToken) ♂, AbstractValidator < UserLoginDTO > . CreateDescriptor(), AbstractValidator < UserLoginDTO > . RuleFor < TProperty > (Expression < Func < UserLoginDTO, TProperty > ). ♂, <u>AbstractValidator<UserLoginDTO>.Transform<TProperty, TTransformed></u> (Expression < Func < UserLoginDTO, TProperty > >, Func < TProperty, TTransformed > ) \( \text{\text{\$\exititt{\$\text{\$\exititt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\texi\\$}}}\$}}} <u>AbstractValidator<UserLoginDTO>.Transform<TProperty, TTransformed></u> (Expression < Func < UserLoginDTO, TProperty >>, Func < UserLoginDTO, TProperty, TTransformed >) \( \text{\text{\$\sigma}} \) , AbstractValidator < UserLoginDTO > .RuleForEach < TElement > (Expression < Func < UserLoginDTO, IEnumerable < TElement >>>) ♂, <u>AbstractValidator<UserLoginDTO>.TransformForEach<TElement, TTransformed></u> (Expression < Func < UserLoginDTO, IEnumerable < TElement > >>, Func < TElement, TTransformed > ) & , <u>AbstractValidator<UserLoginDTO>.TransformForEach<TElement, TTransformed></u> (Expression < Func < UserLoginDTO, IEnumerable < TElement > > >, Func < UserLoginDTO, TElement, TTransformed>)♂, AbstractValidator < UserLoginDTO > .RuleSet(string, Action) , AbstractValidator < UserLoginDTO > . When (Func < UserLoginDTO, bool > , Action) , AbstractValidator < UserLoginDTO > . When (Func < UserLoginDTO , Validation Context < UserLoginDTO > , bool>, Action) □,

AbstractValidator < UserLoginDTO > . Unless(Func < UserLoginDTO, bool > , Action) ,

<u>AbstractValidator<UserLoginDTO>.Unless(Func<UserLoginDTO, ValidationContext<UserLoginDTO>, bool>, Action)</u> ♂,

 $\underline{AbstractValidator < UserLoginDTO > .WhenAsync(Func < UserLoginDTO, ValidationContext < UserLoginDTO > ,}\\ \underline{CancellationToken, Task < bool > > , Action)} \square \ ,$ 

<u>AbstractValidator<UserLoginDTO>.UnlessAsync(Func<UserLoginDTO, CancellationToken, Task<bool>>, Action)</u> ♂,

AbstractValidator < UserLoginDTO > . UnlessAsync(Func < UserLoginDTO,

<u>ValidationContext<UserLoginDTO>, CancellationToken, Task<bool>>, Action)</u> ✓,

AbstractValidator < UserLoginDTO > .Include(IValidator < UserLoginDTO > ) ,

<u>AbstractValidator<UserLoginDTO>.Include<TValidator>(Func<UserLoginDTO, TValidator>)</u> ,

AbstractValidator < UserLoginDTO > . GetEnumerator(),

AbstractValidator < UserLoginDTO > . EnsureInstanceNotNull(object) ,

AbstractValidator < UserLoginDTO > . PreValidate(ValidationContext < UserLoginDTO > , ValidationResult) ,

Abstract Validator < User Login DTO >. Raise Validation Exception (Validation Context < User Login DTO >, All Validation Context < User Login DTO >, All

ValidationResult),

AbstractValidator < UserLoginDTO > . OnRuleAdded(IValidationRule < UserLoginDTO > ) ,

AbstractValidator < UserLoginDTO > . CascadeMode ,

AbstractValidator < UserLoginDTO > . ClassLevelCascadeMode ,

AbstractValidator < UserLoginDTO > .RuleLevelCascadeMode , object.Equals(object) ,

object.Equals(object, object) ♂, object.GetHashCode() ♂, object.GetType() ♂,

#### Constructors

UserLoginValidator()

public UserLoginValidator()

# Namespace ATMApp.Views

# Classes

<u>AdminView</u>

**ClientView** 

### Class AdminView

Namespace: <u>ATMApp.Views</u>

Assembly: ATMApp.dll

public class AdminView

#### Inheritance

object 

← AdminView

#### **Inherited Members**

<u>object.Equals(object)</u> , <u>object.Equals(object, object)</u> , <u>object.GetHashCode()</u> , <u>object.GetType()</u> , <u>object.MemberwiseClone()</u> , <u>object.ReferenceEquals(object, object)</u> , <u>object.ToString()</u>

#### **Constructors**

AdminView(IAdminservices, IAuthService, Func<string>)

public AdminView(IAdminservices adminServices, IAuthService authService, Func<string> input)

#### **Parameters**

adminServices | Adminservices

authService |AuthService

input <u>Func</u>♂<<u>string</u>♂>

#### **Methods**

### AskUserToEdit(string)

public static bool AskUserToEdit(string field)

Parameters

```
field <u>string</u>♂
Returns
bool♂
CreateUser()
Will create a User.
  public Task<bool> CreateUser()
Returns
<u>Task</u>♂<<u>bool</u>♂>
DeleteAccount()
 public Task<bool> DeleteAccount()
Returns
<u>Task</u>♂<<u>bool</u>♂>
Exit()
Exit the program.
  public void Exit()
```

# HandleCreateUserInput()

public static CreateUserDto HandleCreateUserInput()

#### Returns

#### <u>CreateUserDto</u>

## HandleInputToUpudate()

```
public static UpdateUserDto HandleInputToUpudate()
```

Returns

<u>UpdateUserDto</u>

## SearchForAccount()

search for account.

```
public Task SearchForAccount()
```

Returns

<u>Task</u> ☑

## Show()

```
public Task Show()
```

Returns

# UpdateAccount()

```
public Task<bool> UpdateAccount()
```

## Returns

<u>Task</u>♂<<u>bool</u>♂>

## Class ClientView

Namespace: <u>ATMApp.Views</u>

Assembly: ATMApp.dll

public class ClientView

#### Inheritance

<u>object</u> ← ClientView

#### **Inherited Members**

#### **Constructors**

ClientView(IClientService, IAuthService, Func<string?>?)

```
public ClientView(IClientService clientService, IAuthService authService, Func<string?>?
readLine = null)
```

#### **Parameters**

clientService | ClientService

authService <a href="#">IAuthService</a>

readLine <u>Func</u> < <u>string</u> < >

### **Methods**

### Deposite(User)

public Task Deposite(User user)

user <u>User</u> Returns <u>Task</u> ♂ DisplayAccount(User) public Task DisplayAccount(User user) Parameters user <u>User</u> Returns Exit() public void Exit() Show(User) public Task Show(User user) **Parameters** user <u>User</u> Returns

# WithdrawMoney(User)

public Task WithdrawMoney(User user)

Parameters

user <u>User</u>

Returns

<u>Task</u> ☑