

# Namespace ATMApp.DTOs

## Classes

[BalanceResultDto](#)

[BaseDto](#)

[CreateAccountDto](#)

[CreateUserDto](#)

[UpdateUserDto](#)

[UserLoginDTO](#)


# Class BalanceResultDto

Namespace: [ATMApp.DTOs](#)








Assembly: ATMApp.dll

```
public class BalanceResultDto
```

## Inheritance

[object](#)  ← BalanceResultDto

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#) 

## Properties

### AccountId

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

#### Property Value

[int](#) .

### 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

[bool](#)

# Class BaseDto

Namespace: [ATMApp.DTOs](#)

Assembly: ATMApp.dll

```
public class BaseDto
```








## Inheritance

[object](#)  ← BaseDto

## Derived

[CreateUserDto](#), [UpdateUserDto](#)

## Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  ,  
[object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

# Properties

## HolderName

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

## Property Value

[string](#) 

## Login

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

## Property Value

[string](#) 

## PinCode

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

Property Value

[string](#)

## Role

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

Property Value

[UserRole](#)

# Class CreateAccountDto

Namespace: [ATMApp.DTOs](#)

Assembly: ATMApp.dll

```
public class CreateAccountDto
```

## Inheritance

[object](#) ← CreateAccountDto

## Inherited Members

[object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.GetType\(\)](#), [object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

## Properties

### ClientID

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

Property Value

[int](#)

### IntialBalance

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

Property Value

[decimal](#)

### Status

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

Property Value

[AccountStatus](#)

# Class CreateUserDto

Namespace: [ATMApp.DTOs](#)








Assembly: ATMApp.dll

```
public class CreateUserDto : BaseDto
```

## Inheritance

[object](#)  ← [BaseDto](#) ← 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: [ATMApp.DTOs](#)








Assembly: ATMApp.dll

```
public class UpdateUserDto : BaseDto
```

## Inheritance

[object](#)  ← [BaseDto](#) ← UpdateUserDto

## Inherited Members

[BaseDto.Role](#) , [object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  ,  
[object.GetType\(\)](#)  , [object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  ,  
[object.ToString\(\)](#) 

## Properties

### HolderName

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

### Property Value

[string](#) 

### Id

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

### Property Value

[int](#) 

### Login

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

Property Value

[string](#) 

## PinCode

```
public string? PinCode { get; set; }
```

Property Value

[string](#) 

## Status

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

Property Value

[AccountStatus?](#)

# Class UserLoginDTO

Namespace: [ATMApp.DTOs](#)








Assembly: ATMApp.dll

```
public class UserLoginDTO
```

## Inheritance

[object](#)  ← UserLoginDTO

## Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  ,  
[object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

## Properties

### Login

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

### Property Value

[string](#) 

### PinCode

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

### Property Value

[string](#) 

# Namespace ATMAApp.Data

## Classes

[ATMContext](#)

[ATMContextFactory](#)

# Class ATMContext

Namespace: [ATMApp.Data](#)









Assembly: ATMApp.dll

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

## Inheritance

[object](#)  ← [DbContext](#)  ← ATMContext

## Implements

[IInfrastructure](#)  <[IServiceProvider](#)  >, [IDbContextDependencies](#) , [IDbSetCache](#) , [IDbContextPoolable](#) , [IResettableService](#) , [IDisposable](#) , [IAsyncDisposable](#) 

## Inherited Members

[DbContext.Set<TEntity>\(\).](#) , [DbContext.Set<TEntity>\(string\).](#) ,  
[DbContext.OnConfiguring\(DbContextOptionsBuilder\).](#) ,  
[DbContext.ConfigureConventions\(ModelConfigurationBuilder\).](#) , [DbContext.SaveChanges\(\).](#) ,  
[DbContext.SaveChanges\(bool\).](#) , [DbContext.SaveChangesAsync\(CancellationToken\).](#) ,  
[DbContext.SaveChangesAsync\(bool, CancellationToken\).](#) , [DbContext.Dispose\(\).](#) ,  
[DbContext.DisposeAsync\(\).](#) , [DbContext.Entry<TEntity>\(TEntity\).](#) , [DbContext.Entry\(object\).](#) ,  
[DbContext.Add<TEntity>\(TEntity\).](#) , [DbContext.AddAsync<TEntity>\(TEntity, CancellationToken\).](#) ,  
[DbContext.Attach<TEntity>\(TEntity\).](#) , [DbContext.Update<TEntity>\(TEntity\).](#) ,  
[DbContext.Remove<TEntity>\(TEntity\).](#) , [DbContext.Add\(object\).](#) ,  
[DbContext.AddAsync\(object, CancellationToken\).](#) , [DbContext.Attach\(object\).](#) ,  
[DbContext.Update\(object\).](#) , [DbContext.Remove\(object\).](#) , [DbContext.AddRange\(params object\[\]\).](#) ,  
[DbContext.AddRangeAsync\(params object\[\]\).](#) , [DbContext.AttachRange\(params object\[\]\).](#) ,  
[DbContext.UpdateRange\(params object\[\]\).](#) , [DbContext.RemoveRange\(params object\[\]\).](#) ,  
[DbContext.AddRange\(IEnumerable<object>\).](#) ,  
[DbContext.AddRangeAsync\(IEnumerable<object>, CancellationToken\).](#) ,  
[DbContext.AttachRange\(IEnumerable<object>\).](#) , [DbContext.UpdateRange\(IEnumerable<object>\).](#) ,  
[DbContext.RemoveRange\(IEnumerable<object>\).](#) , [DbContext.Find\(Type, params object\[\]\).](#) ,  
[DbContext.FindAsync\(Type, params object\[\]\).](#) ,  
[DbContext.FindAsync\(Type, object\[\], CancellationToken\).](#) , [DbContext.Find<TEntity>\(params object\[\]\).](#) ,  
[DbContext.FindAsync<TEntity>\(params object\[\]\).](#) ,  
[DbContext.FindAsync<TEntity>\(object\[\], CancellationToken\).](#) ,  
[DbContext.FromExpression<TResult>\(Expression<Func<IQueryable<TResult>>>\).](#) ,

[DbContext.Database](#) , [DbContext.ChangeTracker](#) , [DbContext.Model](#) , [DbContext.ContextId](#) , [DbContext.SavingChanges](#) , [DbContext.SavedChanges](#) , [DbContext.SaveChangesFailed](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Constructors

ATMContext(DbContextOptions<ATMContext>)

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

Parameters

`options` [DbContextOptions](#) <[ATMContext](#)>

## Properties

Account

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

Property Value

[DbSet](#) <[Account](#)>

Transactions

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

Property Value

[DbSet](#) <[Transaction](#)>

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 [DbSet<TEntity>](#) properties 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 [UseModel\(IModel\)](#)) 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: [ATMApp.Data](#)

Assembly: ATMApp.dll

```
public class ATMContextFactory : IDesignTimeDbContextFactory<ATMContext>
```

## Inheritance

[object](#) ← ATMContextFactory

## Implements

[IDesignTimeDbContextFactory](#) <[ATMContext](#)>

## Inherited Members

[object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.GetType\(\)](#), [object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

# Methods

## CreateDbContext(string[])

Creates a new instance of a derived context.

```
public ATMContext CreateDbContext(string[] args)
```

## Parameters

args [string](#)[]

Arguments provided by the design-time service.

## Returns

[ATMContext](#)

An instance of [ATMContext](#).



# Namespace ATMApp.Interfaces

## Interfaces

[IAccountRepository](#)

[IAdminservices](#)

[IAuthService](#)

[IClientService](#)

[ITransactionRepository](#)

[Iuser](#)

# Interface IAccountRepository

Namespace: [ATMApp.Interfaces](#)

Assembly: ATMApp.dll

```
public interface IAccountRepository
```

## Methods

### CreateAccount(Account)

```
Task<Account> CreateAccount(Account account)
```

#### Parameters

account [Account](#)

#### Returns

[Task](#) <[Account](#)>

### DeleteAccountById(int)

```
Task<bool> DeleteAccountById(int accountId)
```

#### Parameters

accountId [int](#)

#### 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** [int](#)

### Returns

[Task](#) <[Account](#)>

## UpdateAccount(Account)

```
Task<Account> UpdateAccount(Account account)
```

### Parameters

**account** [Account](#)

### Returns

[Task](#) <[Account](#)>

# Interface IAdminservices

Namespace: [ATMApp.Interfaces](#)

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` [string](#)

Returns

[Task](#) <[bool](#)>

## GetAccount(int)

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

### Parameters

id [int](#)

### Returns

[Task](#) <[Account](#)>

## GetUserByLogin(string)

```
Task<User> GetUserByLogin(string login)
```

### Parameters

login [string](#)

### Returns

[Task](#) <[User](#)>

## UpdateUser(UpdateUserDto)

```
Task<bool> UpdateUser(UpdateUserDto updateUserDto)
```

### Parameters

updateUserDto [UpdateUserDto](#)

### Returns

[Task](#) <[bool](#)>

# Interface IAuthService

Namespace: [ATMApp.Interfaces](#)

Assembly: ATMApp.dll

```
public interface IAuthService
```

## Methods

### Exit()

```
void Exit()
```

### Login(UserLoginDTO)

```
Task<User> Login(UserLoginDTO userLogin)
```

### Parameters

**userLogin** [UserLoginDTO](#)

### Returns

[Task](#) <[User](#)>

# Interface IClientService

Namespace: [ATMApp.Interfaces](#)

Assembly: ATMApp.dll

```
public interface IClientService
```

## Methods

### Deposit(int, decimal)

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

#### Parameters

**accountId** [int](#)

**amount** [decimal](#)

#### Returns

[Task](#) <[bool](#)>

### GetBalance(int)

```
Task GetBalance(int accountId)
```

#### Parameters

**accountId** [int](#)

#### Returns

[Task](#)

## GetTransactionHistory(int)

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

### Parameters

**accountId** [int](#)

### Returns

[Task](#) < [List](#) < [Transaction](#) > >

## Withdraw(int, decimal)

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

### Parameters

**clientID** [int](#)

**amount** [decimal](#)

### Returns

[Task](#) < [bool](#) >



# Interface ITransactionRepository

Namespace: [ATMApp.Interfaces](#)

Assembly: ATMApp.dll

```
public interface ITransactionRepository
```

## Methods

### AddTransaction(Transaction)

```
Task AddTransaction(Transaction transaction)
```

Parameters

**transaction** [Transaction](#)

Returns

[Task](#)

### GetTransactionsByAccountId(int)

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

Parameters

**accountId** [int](#)

Returns

[Task](#) <[List](#) <[Transaction](#)> >

# Interface Iuser

Namespace: [ATMApp.Interfaces](#)

Assembly: ATMApp.dll

```
public interface Iuser
```

## Methods

### AddUser(User)

```
void AddUser(User user)
```

Parameters

user [User](#)

### GetAllPeople()

```
List<User> GetAllPeople()
```

Returns

[List](#) [<User>](#)

# Namespace ATMAApp.Migrations

## Classes

### [CreateTablesAndRelations](#)

A base class inherited by each EF Core migration.

# Class CreateTableAndRelations

Namespace: [ATMApp.Migrations](#)

Assembly: ATMApp.dll

A base class inherited by each EF Core migration.

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

## Inheritance

[object](#) ← [Migration](#) ← CreateTableAndRelations

## 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 [Database migrations](#) for more information and examples.

## Methods

### BuildTargetModel(ModelBuilder)

Implemented to build the [TargetModel](#).

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

## Parameters

**modelBuilder** [ModelBuilder](#)

The [ModelBuilder](#) to use to build the model.

## Remarks

See [Database migrations](#) for more information and examples.

## Down(MigrationBuilder)

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

```
protected override void Down(MigrationBuilder migrationBuilder)
```

### Parameters

**migrationBuilder** [MigrationBuilder](#)

The [MigrationBuilder](#) 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 [Migration](#) 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 [Database migrations](#) for more information and examples.

## Up(MigrationBuilder)

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

```
protected override void Up(MigrationBuilder migrationBuilder)
```

### Parameters

**migrationBuilder** [MigrationBuilder](#)

The [MigrationBuilder](#) 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](#)<sup>↗</sup>.

See [Database migrations](#)<sup>↗</sup> for more information and examples.

# Namespace ATMApp.Models

## Classes

[Account](#)

[Transaction](#)

[User](#)

## Enums

[AccountStatus](#)

[TransactionType](#)

[UserRole](#)

# Class Account

Namespace: [ATMApp.Models](#)








Assembly: ATMApp.dll

```
public class Account
```

## Inheritance

[object](#)  ← Account

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#) 

# Properties

## ClientID

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

Property Value

[int](#) 

## Id

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

Property Value

[int](#) 

## IntialBalance



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

Property Value

[decimal](#)

## Status

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

Property Value

[AccountStatus](#)

## Transactions

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

Property Value

[List](#) <[Transaction](#)>

## User

```
public User User { get; set; }
```

Property Value

[User](#)

# Enum AccountStatus

Namespace: [ATMApp.Models](#)

Assembly: ATMApp.dll

```
public enum AccountStatus
```

## Fields

```
Active = 0
```

```
Disabled = 1
```

# Class Transaction

Namespace: [ATMApp.Models](#)








Assembly: ATMApp.dll

```
public class Transaction
```

## Inheritance

[object](#)  ← Transaction

## Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  , [object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

# Properties

## Account

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

## Property Value

[Account](#)

## AccountId

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

## Property Value

[int](#) 

## Amount

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

Property Value

[decimal](#)

## Id

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

Property Value

[int](#)

## TimeStamp

```
public DateTime TimeStamp { get; set; }
```

Property Value

[DateTime](#)

## Type

```
public TransactionType Type { get; set; }
```

Property Value

[TransactionType](#)

# Enum TransactionType

Namespace: [ATMApp.Models](#)

Assembly: ATMApp.dll

```
public enum TransactionType
```

## Fields

Deposit = 0

Display = 2

Withdrawal = 1

# Class User

Namespace: [ATMApp.Models](#)








Assembly: ATMApp.dll

```
public class User
```

## Inheritance

[object](#)  ← User

## Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  ,  
[object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

# Properties

## Account

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

Property Value

[Account](#)

## HolderName

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

Property Value

[string](#) 

## Id

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

Property Value

[int](#)

## Login

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

Property Value

[string](#)

## PinCode

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

Property Value

[string](#)

## Role

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

Property Value

[UserRole](#)

# Enum UserRole

Namespace: [ATMApp.Models](#)

Assembly: ATMApp.dll

```
public enum UserRole
```

## Fields

```
Admin = 1
```

```
Client = 0
```



# Namespace ATMApp.Repositories

## Classes

[AccountRepository](#)

[TransactionRepository](#)

[UserRepository](#)

## Interfaces

[IUserRepository](#)

# Class AccountRepository

Namespace: [ATMApp.Repositories](#)

Assembly: ATMApp.dll

```
public class AccountRepository : IAccountRepository
```

## Inheritance

[object](#) ← AccountRepository

## Implements

[IAccountRepository](#).

## Inherited Members

[object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.GetType\(\)](#), [object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

## Constructors

### AccountRepository(ATMContext)

```
public AccountRepository(ATMContext context)
```

## Parameters

context [ATMContext](#)

## Methods

### CreateAccount(Account)

This method will create an Account in Account Repo

```
public Task<Account> CreateAccount(Account newAccount)
```

## Parameters

`newAccount` [Account](#)

Returns

[Task](#) <[Account](#)>

## DeleteAccountById(int)

This method will delete an Account by accountId in Account Repo

```
public Task<bool> DeleteAccountById(int accountId)
```

Parameters

`accountId` [int](#)

Returns

[Task](#) <[bool](#)>

## GetAccountByClientID(int)

This method will return an Account by clientId in Account Repo

```
public Task<Account> GetAccountByClientID(int clientId)
```

Parameters

`clientId` [int](#)

Returns

[Task](#) <[Account](#)>

## GetAccountById(int)

This method will return an Account by accountId in Account Repo

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

## Parameters

id [int](#)

## Returns

[Task](#) <[Account](#)>

## UpdateAccount(Account)

This methode will update an Account by accountId in Account Repo

```
public Task<Account> UpdateAccount(Account account)
```

## Parameters

account [Account](#)

## Returns

[Task](#) <[Account](#)>

# Interface IUserRepository

Namespace: [ATMApp.Repositories](#)

Assembly: ATMApp.dll

```
public interface IUserRepository
```

## Methods

### AddUser(User)

```
Task<User> AddUser(User newUser)
```

Parameters

**newUser** [User](#)

Returns

[Task](#) <[User](#)>

### DeleteUserbyId(int)

```
Task<bool> DeleteUserbyId(int userId)
```

Parameters

**userId** [int](#)

Returns

[Task](#) <[bool](#)>

## GetUserById(int)

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

### Parameters

**id** [int](#)

### Returns

[Task](#) <[User](#)>

## GetUserBylogin(string)

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

### Parameters

**login** [string](#)

### Returns

[Task](#) <[User](#)>

## GetUserWithAccountByLogin(string)

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

### Parameters

**login** [string](#)

### Returns

[Task](#) <[User](#)>

# UpdateUser(User)

Task<[bool](#)> [UpdateUser](#)(User user)

## Parameters

[user](#) [User](#)

## Returns

[Task](#) <[bool](#)>

# Class TransactionRepository

Namespace: [ATMApp.Repositories](#)

Assembly: ATMApp.dll

```
public class TransactionRepository : ITransactionRepository
```

## Inheritance

[object](#) ← TransactionRepository

## Implements

[ITransactionRepository](#).

## Inherited Members

[object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.GetType\(\)](#), [object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

## Constructors

### TransactionRepository(ATMContext)

```
public TransactionRepository(ATMContext context)
```

## Parameters

context [ATMContext](#)

## Methods

### AddTransaction(Transaction)

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

```
public Task AddTransaction(Transaction transaction)
```

## Parameters



transaction [Transaction](#)

Returns

[Task](#)

## GetTransactionsByAccountId(int)

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

Parameters

accountId [int](#)

Returns

[Task](#) <[List](#) <[Transaction](#)> >

# Class UserRepository

Namespace: [ATMApp.Repositories](#)

Assembly: ATMApp.dll

```
public class UserRepository : IUserRepository
```

## Inheritance

[object](#) ← UserRepository

## Implements

[IUserRepository](#)

## Inherited Members

[object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.GetType\(\)](#), [object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

## Constructors

### UserRepository(ATMContext)

```
public UserRepository(ATMContext context)
```

## Parameters

context [ATMContext](#)

## Methods

### AddUser(User)

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

```
public Task<User> AddUser(User user)
```

## Parameters

user [User](#)

Returns

[Task](#) <[User](#)>

## DeleteUserbyId(int)

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

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

Parameters

id [int](#)

Returns

[Task](#) <[bool](#)>

## GetUserById(int)

This methode will return a User by Id

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

Parameters

id [int](#)

Returns

[Task](#) <[User](#)>

## GetUserBylogin(string)

This methode will return a User by login

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

## Parameters

login [string](#)

## Returns

[Task](#) <[User](#)>

# GetUserWithAccountByLogin(string)

This methode will return a User with their account by Login

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

## Parameters

login [string](#)

## Returns

[Task](#) <[User](#)>

# UpdateUser(User)

This methode will return a bool after updating a user

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

## Parameters

user [User](#)

## Returns

[Task](#) <[bool](#)>



# Namespace ATMApp.Services

## Classes

[AdminServices](#)

[AuthService](#)

[ClientService](#)

# Class AdminServices

Namespace: [ATMApp.Services](#)

Assembly: ATMApp.dll

```
public class AdminServices : IAdminservices
```

## Inheritance

[object](#) ← AdminServices

## Implements

[IAdminservices](#)

## Inherited Members

[object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.GetType\(\)](#), [object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

## 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 [IUserRepository](#)

transactionRepository [ITransactionRepository](#)

accountRepository [IAccountRepository](#)

userValidator IValidator<[CreateUserDto](#)>

# Methods

## AddUser(CreateUserDto)

This methode will add user in AdminSerivce.cs

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

### Parameters

userDto [CreateUserDto](#)

### Returns

[Task](#) <[bool](#)>

## DeleteUserAndAccount(int, string)

This methode will Delete User and their account

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

### Parameters

accountId [int](#)

confirmationInput [string](#)

### Returns

[Task](#) <[bool](#)>

## GetAccount(int)

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

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



## Parameters

**id** [int](#)

## Returns

[Task](#) <[Account](#)>

## GetUserByLogin(string)

This method will return a User by Login in AdminService

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

## Parameters

**login** [string](#)

## Returns

[Task](#) <[User](#)>

## UpdateUser(UpdateUserDto)

This method will a bool after updating a User in AdminService

```
public Task<bool> UpdateUser(UpdateUserDto updateUserDto)
```

## Parameters

**updateUserDto** [UpdateUserDto](#)

## Returns

[Task](#) <[bool](#)>

# Class AuthService

Namespace: [ATMApp.Services](#)

Assembly: ATMApp.dll

```
public class AuthService : IAuthService
```

## Inheritance

[object](#) ← AuthService

## Implements

[IAuthService](#)

## Inherited Members

[object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.GetType\(\)](#), [object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

## Constructors

AuthService(IUserRepository, IValidator<UserLoginDTO>)

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

## Parameters

**userRepository** [IUserRepository](#)

**validator** IValidator<[UserLoginDTO](#)>

## 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` [UserLoginDTO](#)

## Returns

[Task](#) [User](#)

# Class ClientService

Namespace: [ATMApp.Services](#)

Assembly: ATMApp.dll

```
public class ClientService : IClientService
```

## Inheritance

[object](#) ← ClientService

## Implements

[IClientService](#)

## Inherited Members

[object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.GetType\(\)](#), [object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

## Constructors

### ClientService(IAccountRepository, ITransactionRepository)

```
public ClientService(IAccountRepository accountRepository, ITransactionRepository transactionRepository)
```

## Parameters

**accountRepository** [IAccountRepository](#)

**transactionRepository** [ITransactionRepository](#)

## Methods

### Deposit(int, decimal)

This method will return a bool after a client try to deposit money.

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

## Parameters

**clientId** [int](#)

**amount** [decimal](#)

## Returns

[Task](#) <[bool](#)>

## GetBalance(int)

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

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

## Parameters

**clientId** [int](#)

## Returns

[Task](#)

## GetTransactionHistory(int)

This method will return a list of transactions done by User using accountId

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

## Parameters

**accountId** [int](#)

## Returns

[Task](#) <[List](#) <[Transaction](#)>>

## Withdraw(int, decimal)

This methode will allow the client to withdraw money

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

### Parameters

**clientID** [int](#)

**amount** [decimal](#)

### Returns

[Task](#) <[bool](#)>

# Namespace ATMApp.Validators

## Classes

[AddNewuserValidator](#)

[UserLoginValidator](#)

# Class AddNewuserValidator

Namespace: [ATMApp.Validators](#)

Assembly: ATMApp.dll

```
public class AddNewuserValidator : AbstractValidator<CreateUserDto>,
    IValidator<CreateUserDto>, IValidator, IEnumerable<IValidationRule>, IEnumerable
```













## Inheritance

[object](#)  ← [AbstractValidator<CreateUserDto>](#) ← AddNewuserValidator

## Implements

[IValidator<CreateUserDto>](#), [IValidator](#), [IEnumerable](#)  [<IValidationRule>](#), [IEnumerable](#) 

## 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\(\)](#) ,  
[AbstractValidator<CreateUserDto>.RuleFor<TProperty>\(Expression<Func<CreateUserDto, TProperty>>\)](#)  ,  
[AbstractValidator<CreateUserDto>.Transform<TProperty, TTransformed>\(Expression<Func<CreateUserDto, TProperty>>, Func<TProperty, TTransformed>\)](#)  ,  
[AbstractValidator<CreateUserDto>.Transform<TProperty, TTransformed>\(Expression<Func<CreateUserDto, TProperty>>, Func<CreateUserDto, TProperty, TTransformed>\)](#)  ,  
[AbstractValidator<CreateUserDto>.RuleForEach<TElement>\(Expression<Func<CreateUserDto, IEnumerable<TElement>>>\)](#)  ,  
[AbstractValidator<CreateUserDto>.TransformForEach<TElement, TTransformed>\(Expression<Func<CreateUserDto, IEnumerable<TElement>>>, Func<TElement, TTransformed>\)](#)  ,  
[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\(Func<CreateUserDto, bool>, Action\)](#) 



[AbstractValidator<CreateUserDto>.Unless\(Func<CreateUserDto, ValidationContext<CreateUserDto>, bool>, Action\)](#) ,  
[AbstractValidator<CreateUserDto>.WhenAsync\(Func<CreateUserDto, CancellationToken, Task<bool>>, Action\)](#) ,  
[AbstractValidator<CreateUserDto>.WhenAsync\(Func<CreateUserDto, ValidationContext<CreateUserDto>, CancellationToken, Task<bool>>, Action\)](#) ,  
[AbstractValidator<CreateUserDto>.UnlessAsync\(Func<CreateUserDto, CancellationToken, Task<bool>>, Action\)](#) ,  
[AbstractValidator<CreateUserDto>.UnlessAsync\(Func<CreateUserDto, ValidationContext<CreateUserDto>, CancellationToken, Task<bool>>, Action\)](#) ,  
AbstractValidator<CreateUserDto>.Include(IValidator<CreateUserDto>) ,  
[AbstractValidator<CreateUserDto>.Include<TValidator>\(Func<CreateUserDto, TValidator>\)](#) ,  
AbstractValidator<CreateUserDto>.GetEnumerator() ,  
[AbstractValidator<CreateUserDto>.EnsureInstanceNotNull\(object\)](#) ,  
AbstractValidator<CreateUserDto>.PreValidate(ValidationContext<CreateUserDto>, ValidationResult) ,  
AbstractValidator<CreateUserDto>.RaiseValidationException(ValidationContext<CreateUserDto>, ValidationResult) ,  
AbstractValidator<CreateUserDto>.OnRuleAdded(IValidationRule<CreateUserDto>) ,  
AbstractValidator<CreateUserDto>.CascadeMode ,  
AbstractValidator<CreateUserDto>.ClassLevelCascadeMode ,  
AbstractValidator<CreateUserDto>.RuleLevelCascadeMode , [object.Equals\(object\)](#) ,  
[object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Constructors

### AddNewuserValidator()

```
public AddNewuserValidator()
```

# Class UserLoginValidator

Namespace: [ATMApp.Validators](#)

Assembly: ATMApp.dll

```
public class UserLoginValidator : AbstractValidator<UserLoginDTO>, IValidator<UserLoginDTO>,
    IValidator, IEnumerable<IValidationRule>, IEnumerable
```

## Inheritance

[object](#)  ← [AbstractValidator<UserLoginDTO>](#)  ← UserLoginValidator

## Implements

IValidator<[UserLoginDTO](#)>, IValidator, [IEnumerable](#)  <IValidationRule>, [IEnumerable](#) 

## 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>\(Expression<Func<UserLoginDTO, TProperty>>\)](#)  ,  
[AbstractValidator<UserLoginDTO>.Transform<TProperty, TTransformed>\(Expression<Func<UserLoginDTO, TProperty>>, Func<TProperty, TTransformed>\)](#)  ,  
[AbstractValidator<UserLoginDTO>.Transform<TProperty, TTransformed>\(Expression<Func<UserLoginDTO, TProperty>>, Func<UserLoginDTO, TProperty, TTransformed>\)](#)  ,  
[AbstractValidator<UserLoginDTO>.RuleForEach<TElement>\(Expression<Func<UserLoginDTO, IEnumerable<TElement>>>\)](#)  ,  
[AbstractValidator<UserLoginDTO>.TransformForEach<TElement, TTransformed>\(Expression<Func<UserLoginDTO, IEnumerable<TElement>>>, Func<TElement, TTransformed>\)](#)  ,  
[AbstractValidator<UserLoginDTO>.TransformForEach<TElement, TTransformed>\(Expression<Func<UserLoginDTO, IEnumerable<TElement>>>, Func<UserLoginDTO, TElement, TTransformed>\)](#)  ,  
[AbstractValidator<UserLoginDTO>.RuleSet\(string, Action\)](#)  ,  
[AbstractValidator<UserLoginDTO>.When\(Func<UserLoginDTO, bool>, Action\)](#)  ,  
[AbstractValidator<UserLoginDTO>.When\(Func<UserLoginDTO, ValidationContext<UserLoginDTO>, bool>, Action\)](#)  ,  
[AbstractValidator<UserLoginDTO>.Unless\(Func<UserLoginDTO, bool>, Action\)](#)  ,

[AbstractValidator<UserLoginDTO>.Unless\(Func<UserLoginDTO, ValidationContext<UserLoginDTO>, bool>, Action\)](#) ,  
[AbstractValidator<UserLoginDTO>.WhenAsync\(Func<UserLoginDTO, CancellationToken, Task<bool>>, Action\)](#) ,  
[AbstractValidator<UserLoginDTO>.WhenAsync\(Func<UserLoginDTO, ValidationContext<UserLoginDTO>, CancellationToken, Task<bool>>, Action\)](#) ,  
[AbstractValidator<UserLoginDTO>.UnlessAsync\(Func<UserLoginDTO, CancellationToken, Task<bool>>, Action\)](#) ,  
[AbstractValidator<UserLoginDTO>.UnlessAsync\(Func<UserLoginDTO, ValidationContext<UserLoginDTO>, CancellationToken, Task<bool>>, Action\)](#) ,  
AbstractValidator<UserLoginDTO>.Include(IValidator<UserLoginDTO>),  
[AbstractValidator<UserLoginDTO>.Include<TValidator>\(Func<UserLoginDTO, TValidator>\)](#) ,  
AbstractValidator<UserLoginDTO>.GetEnumerator(),  
[AbstractValidator<UserLoginDTO>.EnsureInstanceNotNull\(object\)](#) ,  
AbstractValidator<UserLoginDTO>.PreValidate(ValidationContext<UserLoginDTO>, ValidationResult),  
AbstractValidator<UserLoginDTO>.RaiseValidationException(ValidationContext<UserLoginDTO>, 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\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Constructors

### UserLoginValidator()

```
public UserLoginValidator()
```

# Namespace ATMApp.Views

## Classes

[AdminView](#)

[ClientView](#)


# Class AdminView

Namespace: [ATMApp.Views](#)








Assembly: ATMApp.dll

```
public class AdminView
```

## Inheritance

[object](#)  ← AdminView

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#) 

## Constructors

AdminView(IAdminservices, IAuthService, Func<string>)

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

## Parameters

adminServices [IAdminservices](#)

authService [IAuthService](#)

input [Func](#)  <[string](#)  >

## Methods

AskUserToEdit(string)

```
public static bool AskUserToEdit(string field)
```

## Parameters

field [string](#)

Returns

[bool](#)

## CreateUser()

Will create a User.

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

Returns

[Task](#) <[bool](#)>

## DeleteAccount()

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

Returns

[Task](#) <[bool](#)>

## Exit()

Exit the program.

```
public void Exit()
```

## HandleCreateUserInput()

```
public static CreateUserDto HandleCreateUserInput()
```

Returns

[CreateUserDto](#)

## HandleInputToUpudate()

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

Returns

[UpdateUserDto](#)

## SearchForAccount()

search for account.

```
public Task SearchForAccount()
```

Returns

[Task](#)

## Show()

```
public Task Show()
```

Returns

[Task](#)

## UpdateAccount()

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

Returns

[Task](#) <[bool](#)>



# Class ClientView

Namespace: [ATMApp.Views](#)








Assembly: ATMApp.dll

```
public class ClientView
```

## Inheritance

[object](#)  ← ClientView

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#) 

## Constructors

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

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

## Parameters

clientService [IClientService](#)

authService [IAuthService](#)

readLine [Func](#)  <[string](#)  >

## Methods

Deposit(User)

```
public Task Deposit(User user)
```

## Parameters

user [User](#)

Returns

[Task](#)

## DisplayAccount(User)

```
public Task DisplayAccount(User user)
```

Parameters

user [User](#)

Returns

[Task](#)

## Exit()

```
public void Exit()
```

## Show(User)

```
public Task Show(User user)
```

Parameters

user [User](#)

Returns

[Task](#)

# WithdrawMoney(User)

```
public Task WithdrawMoney(User user)
```

## Parameters

user [User](#)

## Returns

[Task](#)