PTSLibrary Reference

Table of Contents

PTSLibrary Reference	5
PTSLibrary Namespace	6
Customer Class	6
Customer Constructor	6
PTSAdminFacade Class	7
PTSAdminFacade Constructor	8
PTSAdminFacade.Authenticate Method	8
PTSAdminFacade.CreateProject Method	9
PTSAdminFacade.CreateTask Method	10
PTSAdminFacade.GetListOfCustomers Method	11
PTSAdminFacade.GetListOfProjects Method	11
PTSAdminFacade.GetListOfTeams Method	12
dao Field	12
PTSClientFacade Class	13
PTSClientFacade Constructor	13
PTSClientFacade.Authenticate Method	14
PTSClientFacade.GetListOfProjects Method	15
dao Field	15
PTSCustomerFacade Class	16
PTSCustomerFacade Constructor	16
PTSCustomerFacade.GetListOfProjects Method	17
dao Field	17
PTSSuperFacade Class	18
PTSSuperFacade Constructor	18
PTSSuperFacade.GetListOfTasks Method	19
dao Field	19
Project Class	20
Project(String, DateTime, DateTime, Guid, List <task>) Constructor</task>	20
Project(String, DateTime, DateTime, Guid, Customer) Constructor	21
Project.ExpectedEndDate Property	22
Project.ExpectedStartDate Property	23
Project.Name Property	23

PTSLIBRARY REFERENCE

Project.ProjectId Property	23
Project.Tasks Property	24
Project.TheCustomer Property	24
expectedEndDate Field	25
expectedStartDate Field	25
name Field	25
projectId Field	26
tasks Field	26
theCustomer Field	26
Task Class	27
Task Constructor	27
Task.Name Property	28
Task.NameAndStatus Property	28
Task.TaskId Property	29
Task.TheStatus Property	29
name Field	30
status Field	30
taskId Field	30
Team Class	31
Team Constructor	31
Team.Leader Property	32
Team.Location Property	33
Team.Name Property	33
Team.TeamId Property	34
id Field	34
leader Field	35
location Field	35
name Field	35
TeamLeader Class	35
TeamLeader Constructor	36
TeamLeader.TeamId Property	37
teamld Field	37
User Class	38
User.ld Property	38

PTSLIBRARY REFERENCE

	User.Name Property	. 39
	id Field	. 39
	name Field	. 40
St	atus Enumeration	. 40
PTSL	ibrary.DAO Namespace	. 41
Ac	dminDAO Class	. 41
	AdminDAO.Authenticate Method	. 41
	AdminDAO.CreateProject Method	. 42
	AdminDAO.CreateTask Method	. 44
	AdminDAO.GetListOfCustomers Method	. 45
	AdminDAO.GetListOfProjects Method	. 46
	AdminDAO.GetListOfTeams Method	. 48
Cli	ientDAO Class	. 49
	ClientDAO.Authenticate Method	. 49
	ClientDAO.GetListOfProjects Method	. 50
Cı	ustomerDAO Class	. 52
	CustomerDAO.Authenticate Method	. 52
	CustomerDAO.GetListOfProjects Method	. 54
Su	perDAO Class	. 55
	SuperDAO.GetCustomer Method	. 56
	SuperDAO.GetListOfTasks Method	. 57
PTSL	ibrary.Properties Namespace	. 59
Se	ettings Class	. 59
	Settings.ConnectionString Property	. 60
	Settings.Default Property	. 60
	defaultInstance Field	. 61

PTSLibrary Reference

Namespaces

PTSLibrary₆, PTSLibrary_{.DAO₄₁, PTSLibrary_{.Properties₅₉}}

PTSLibrary Namespace

Classes

Customer₆, PTSAdminFacade₇, PTSClientFacade₁₃, PTSCustomerFacade₁₆, PTSSuperFacade₁₈, Project₂₀, Task₂₇, Team₃₁, TeamLeader₃₅, User₃₈

Enumerations

Status₄₀

Customer Class

Represents a customer who has commissioned a project with the company.

System.Object

PTSLibrary.User₃₈

PTSLibrary.Customer

C#

public class Customer : User

Remarks

This is a subclass of User superclass./>

Requirements

Namespace: PTSLibrary₆

Assembly: PTSLibrary (in PTSLibrary.dll)

Constructors

Customer₆

Properties

Id₃₉ (inherited from User), Name₄₀ (inherited from User)

Methods

Equals (inherited from Object), Finalize (inherited from Object), GetHashCode (inherited from Object), GetType (inherited from Object), MemberwiseClone (inherited from Object), ToString (inherited from Object)

Fields

id₃₉ (inherited from User), name₄₀ (inherited from User)

Customer Constructor

Constructor.

C#

public Customer(

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```
string name,
int id
)
```

Parameters

name

The name of the customer.

id

The identifier.

Remarks

Takes two arguments and assigns them to the inherited variables.

Source code

```
public Customer(string name, int id)
{
    this.name = name;
    this.id = id;
}
```

See Also

Applies to: Customer₆

PTSAdminFacade Class

The administrator facade.

System.Object

PTSLibrary.PTSSuperFacade₁₈

PTSLibrary.PTSAdminFacade

```
C#
```

```
public class PTSAdminFacade : PTSSuperFacade
```

Remarks

Provides an interface for administrators to access and manage project data.

Requirements

Namespace: PTSLibrary₆

Assembly: PTSLibrary (in PTSLibrary.dll)

Constructors

PTSAdminFacade₈

Methods

Authenticate₈, CreateProject₁₀, CreateTask₁₀, Equals (inherited from Object), Finalize (inherited from Object), GetHashCode (inherited from Object), GetListOfCustomers₁₂, GetListOfProjects₁₂, GetListOfTasks₁₉ (inherited from PTSSuperFacade), GetListOfTeams₁₂, GetType (inherited from Object), MemberwiseClone (inherited from Object), ToString (inherited from Object)

Fields

dao₁₂

PTSAdminFacade Constructor

Default constructor.

```
public PTSAdminFacade()
```

Remarks

Calls SuperDAO constructor with a new AdminDAO.

Source code

```
public PTSAdminFacade() : base(new DAO.AdminDAO())
{
    dao = (DAO.AdminDAO)base.dao;
}
```

See Also

Applies to: PTSAdminFacade7

PTSAdminFacade.Authenticate Method

Authenticates the administrator.

```
public int Authenticate(
    string username,
    string password
)
```

Parameters

username

The administartor username.

password

The password.

Returns

Administrator Id. Returns '0' if auth fails.

Exceptions

Exception type	Condition
Exception	Thrown when username or password are empty.

Source code

```
public int Authenticate(string username, string password)
{
   if (username == "" || password == "")
   {
      throw new Exception("Missing Data");
   }
   return dao.Authenticate(username, password);
}
```

See Also

Applies to: PTSAdminFacade7

PTSAdminFacade.CreateProject Method

Creates a new project.

```
public void CreateProject(
    string name,
    DateTime startDate,
    DateTime endDate,
    int customerId,
    int administratorId
)
```

Parameters

name

startDate

endDate

customerId

administratorId

Exceptions

Exception type	Condition
Exception	Thrown when name or dates are missing.

Source code

```
public void CreateProject(string name, DateTime startDate, DateTime endDate,
int customerId, int administratorId)
{
   if (name == "" || name == null || startDate == null || endDate == null)
   {
      throw new Exception("Missing Project data.");
   }
   dao.CreateProject(name, startDate, endDate, customerId, administratorId);
}
```

See Also

Applies to: PTSAdminFacade7

PTSAdminFacade.CreateTask Method

Creates a new task within a project.

```
public void CreateTask(
    string name,
    DateTime startDate,
    DateTime endDate,
    int teamId,
    Guid projectId
)
```

Parameters

name

startDate

endDate

teamId

projectId

Exceptions

Exception type	Condition
Exception	Thrown when name or dates are missing.

Source code

See Also

Applies to: PTSAdminFacade7

PTSAdminFacade.GetListOfCustomers Method

Gets list of customers.

```
public Customer[] GetListOfCustomers()
```

Returns

An array of customer.

Source code

```
public Customer[] GetListOfCustomers()
{
    return dao.GetListOfCustomers().ToArray();
}
```

See Also

Applies to: PTSAdminFacade7

PTSAdminFacade.GetListOfProjects Method

Gets list of projects.

```
public Project[] GetListOfProjects(
   int adminId
)
```

Parameters

adminId

Identifier for the admin.

Returns

An array of projects managed by the administrator.

Source code

```
public Project[] GetListOfProjects(int adminId)
{
    return dao.GetListOfProjects(adminId).ToArray();
}
```

See Also

Applies to: PTSAdminFacade7

PTSAdminFacade.GetListOfTeams Method

Gets list of teams.

```
public Team[] GetListOfTeams()
```

Returns

An array of team.

Source code

```
public Team[] GetListOfTeams()
{
    return dao.GetListOfTeams().ToArray();
}
```

See Also

Applies to: PTSAdminFacade7

dao Field

The administrator dao.

```
C#
private AdminDAO dao
```

Source code

private DAO.AdminDAO dao;

See Also

Applies to: PTSAdminFacade7

PTSClientFacade Class

The client facade.

System.Object

PTSLibrary.PTSSuperFacade₁₈

PTSLibrary.PTSClientFacade

C#

public class PTSClientFacade : PTSSuperFacade

Remarks

Allows a team leader to access project data.

Requirements

Namespace: PTSLibrary₆

Assembly: PTSLibrary (in PTSLibrary.dll)

Constructors

PTSClientFacade₁₃

Methods

Authenticate₁₄, Equals (inherited from Object), Finalize (inherited from Object), GetHashCode (inherited from Object), GetListOfProjects₁₅, GetListOfTasks₁₉ (inherited from PTSSuperFacade), GetType (inherited from Object), MemberwiseClone (inherited from Object), ToString (inherited from Object)

Fields

dao₁₅

PTSClientFacade Constructor

Default client facade constructor.

C#

public PTSClientFacade()

Remarks

Takes no arguments. Calls the SuperDAO constructor with a ClientDAO as the argument.

Source code

```
public PTSClientFacade() : base(new DAO.ClientDAO())
{
   dao = (DAO.ClientDAO)base.dao;
}
```

See Also

Applies to: PTSClientFacade₁₃

PTSClientFacade.Authenticate Method

Authenticates the team leader.

```
public TeamLeader Authenticate(
    string username,
    string password
)
```

Parameters

username

The username.

password

The password.

Returns

A TeamLeader.

Exceptions

Exception type	Condition
Exception	Thrown when an exception error condition occurs.

Source code

```
public TeamLeader Authenticate(string username, string password)
{
   if (username == "" || password == "")
   {
      throw new Exception("Missing Data");
   }
   return dao.Authenticate(username, password);
}
```

See Also

Applies to: PTSClientFacade₁₃

PTSClientFacade.GetListOfProjects Method

Gets list of projects.

```
public Project[] GetListOfProjects(
   int teamId
)
```

Parameters

teamId

Identifier for the team.

Returns

An array of project.

Remarks

Gets a list of projects for the team from dao then converts the list to an Array.

Source code

```
public Project[] GetListOfProjects(int teamId)
{
    return (dao.GetListOfProjects(teamId).ToArray());
}
```

See Also

Applies to: PTSClientFacade₁₃

dao Field

The database access object for the Client.

```
C#
private ClientDAO dao
```

Source code

```
private DAO.ClientDAO dao;
```

See Also

Applies to: PTSClientFacade₁₃

PTSCustomerFacade Class

The customer facade.

System.Object

PTSLibrary.PTSSuperFacade₁₈

PTSLibrary.PTSCustomerFacade

```
C#
```

```
public class PTSCustomerFacade : PTSSuperFacade
```

Remarks

Interface used by customers to access data.

Requirements

Namespace: PTSLibrary₆

Assembly: PTSLibrary (in PTSLibrary.dll)

Constructors

PTSCustomerFacade₁₆

Methods

Equals (inherited from Object), Finalize (inherited from Object), GetHashCode (inherited from Object), GetListOfProjects₁₇, GetListOfTasks₁₉ (inherited from PTSSuperFacade), GetType (inherited from Object), MemberwiseClone (inherited from Object), ToString (inherited from Object)

Fields

dao₁₇

PTSCustomerFacade Constructor

Default constructor.

```
public PTSCustomerFacade()
```

Remarks

Takes no arguments.

Source code

```
public PTSCustomerFacade() : base(new DAO.CustomerDAO())
{
    dao = (DAO.CustomerDAO)base.dao;
}
```

See Also

Applies to: PTSCustomerFacade₁₆

PTSCustomerFacade.GetListOfProjects Method

Gets list of projects.

```
public Project[] GetListOfProjects(
  int customerId
)
```

Parameters

customerId

Identifier for the customer.

Returns

An array of projects.

Remarks

Gets the projects commissioned by the customer. The dao returns a list which is converted to an Array.

Source code

```
public Project[] GetListOfProjects(int customerId)
{
    return (dao.GetListOfProjects(customerId)).ToArray();
}
```

See Also

Applies to: PTSCustomerFacade₁₆

dao Field

The database access object.

```
private CustomerDAO dao
```

Source code

```
private DAO.CustomerDAO dao;
```

See Also

Applies to: PTSCustomerFacade₁₆

PTSSuperFacade Class

The super facade.

System.Object

PTSLibrary.PTSSuperFacade

PTSLibrary.PTSAdminFacade₇ PTSLibrary.PTSClientFacade₁₃ PTSLibrary.PTSCustomerFacade₁₆

C#

public class PTSSuperFacade

Remarks

Provides a public interface to the business component.

Requirements

Namespace: PTSLibrary₆

Assembly: PTSLibrary (in PTSLibrary.dll)

Constructors

PTSSuperFacade₁₈

Methods

Equals (inherited from Object), Finalize (inherited from Object), GetHashCode (inherited from Object), GetListOfTasks₁₉, GetType (inherited from Object), MemberwiseClone (inherited from Object), ToString (inherited from Object)

Fields

dao₁₉

PTSSuperFacade Constructor

Constructor.

```
public PTSSuperFacade(
    SuperDAO dao
)
```

Parameters

dao

The DAO to be used.

Remarks

Creates a SuperFacade that can be used by all users.

Source code

```
public PTSSuperFacade(DAO.SuperDAO dao)
{
    this.dao = dao;
}
```

See Also

Applies to: PTSSuperFacade₁₈

PTSSuperFacade.GetListOfTasks Method

Gets list of tasks.

```
public Task[] GetListOfTasks(
   Guid projectId
)
```

Parameters

projectId

Identifier for the project.

Returns

An array of tasks.

Remarks

Method to retrieve tasks for a specific project.

Source code

```
public Task[] GetListOfTasks(Guid projectId)
{
    return (dao.GetListOfTasks(projectId)).ToArray();
}
```

See Also

Applies to: PTSSuperFacade₁₈

dao Field

The SuperDAO used for data access.

C#

protected SuperDAO dao

Source code

protected DAO.SuperDAO dao;

See Also

Applies to: PTSSuperFacade₁₈

Project Class

A project.

System.Object

PTSLibrary.Project

C#

public class Project

Remarks

Represents a project that has been commissioned with the company. default constructor.

Note that there is no

Requirements

Namespace: PTSLibrary₆

Assembly: PTSLibrary (in PTSLibrary.dll)

Constructors

Project₂₁

Properties

ExpectedEndDate₂₅, ExpectedStartDate₂₅, Name₂₅, ProjectId₂₆, Tasks₂₆, TheCustomer₂₆

Methods

Equals (inherited from Object), Finalize (inherited from Object), GetHashCode (inherited from Object), GetType (inherited from Object), MemberwiseClone (inherited from Object), ToString (inherited from Object)

Fields

expectedEndDate₂₅, expectedStartDate₂₅, name₂₅, projectId₂₆, tasks₂₆, theCustomer₂₆

Project(String, DateTime, DateTime, Guid, List<Task>) Constructor Second Constructor.

C#

```
public Project(
   string name,
   DateTime startDate,
   DateTime endDate,
   Guid projectId,
   List<Task> tasks
)
```

Parameters

name

The project name.

startDate

The expected start date.

endDate

The expected end date.

projectId

The identifier of the project.

tasks

The list of tasks within the project.

Remarks

Has an extra parameter <param cref="tasks" />

Source code

```
public Project(string name, DateTime startDate, DateTime endDate, Guid
projectId, List<Task> tasks)
{
    this.name = name;
    this.expectedStartDate = startDate;
    this.expectedEndDate = endDate;
    this.projectId = projectId;
    this.tasks = tasks;
}
```

See Also

Applies to: Project₂₀

Project(String, DateTime, DateTime, Guid, Customer) Constructor

Constructor.

```
public Project(
    string name,
    DateTime startDate,
    DateTime endDate,
```

```
Guid projectId,
Customer customer
)
```

Parameters

name

The project name.

startDate

The expected start date.

endDate

The expected end date.

projectId

The identifier of the project.

customer

The customer to who the project belongs.

Source code

```
public Project(string name, DateTime startDate, DateTime endDate, Guid
projectId, Customer customer)
{
    this.name = name;
    this.expectedStartDate = startDate;
    this.expectedEndDate = endDate;
    this.projectId = projectId;
    this.theCustomer = customer;
}
```

See Also

Applies to: Project₂₀

Project.ExpectedEndDate Property

Gets or sets the expected end date.

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

Property Value

The expected end date.

Source code

```
public DateTime ExpectedEndDate { get => expectedEndDate; set => expectedEndDate = value; }
```

See Also

Applies to: Project₂₀

Project.ExpectedStartDate Property

Gets or sets the expected start date.

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

Property Value

The expected start date.

Source code

```
public DateTime ExpectedStartDate { get => expectedStartDate; set => expectedStartDate = value; }
```

See Also

Applies to: Project₂₀

Project.Name Property

Gets or sets the name of the project.

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

Property Value

The name.

Source code

```
public string Name { get => name; set => name = value; }
```

See Also

Applies to: Project₂₀

Project.ProjectId Property

Gets the identifier of the project.

```
C#
```

```
public Guid ProjectId {get;}
```

Property Value

The identifier of the project.

Remarks

The projectId cannot be changed.

Source code

```
public Guid ProjectId { get => projectId; }
```

See Also

Applies to: Project₂₀

Project.Tasks Property

Gets or sets the tasks.

```
public List<Task> Tasks {get; set;}
```

Property Value

The list of tasks within the project.

Source code

```
public List<Task> Tasks { get => tasks; set => tasks = value; }
```

See Also

Applies to: Project₂₀

Project.TheCustomer Property

Gets or sets the Customer.

```
public Customer TheCustomer {get; set;}
```

Property Value

The customer who commissioned the project.

Source code

```
public Customer TheCustomer { get => theCustomer; set => theCustomer = value; }
```

See Also

Applies to: Project₂₀

expectedEndDate Field

C#

private DateTime expectedEndDate

Source code

private DateTime expectedEndDate;

See Also

Applies to: Project₂₀

expectedStartDate Field

C#

private DateTime expectedStartDate

Source code

private DateTime expectedStartDate;

See Also

Applies to: Project₂₀

name Field

C#

private string name

Source code

private string name;

See Also

Applies to: Project₂₀

projectId Field

C#

private Guid projectId

Source code

private Guid projectId;

See Also

Applies to: Project₂₀

tasks Field

C#

private List<Task> tasks

Source code

private List<Task> tasks;

See Also

Applies to: Project₂₀

theCustomer Field

C#

private Customer theCustomer

Source code

private Customer theCustomer;

See Also

Applies to: Project₂₀

Task Class

Represents a task within a project. A project may have more than one task.

System.Object

PTSLibrary.Task

```
public class Task
```

Remarks

All properties are public.

Requirements

Namespace: PTSLibrary₆

Assembly: PTSLibrary (in PTSLibrary.dll)

Constructors

Task₂₇

Properties

Name₃₀, NameAndStatus₂₈, TaskId₃₀, TheStatus₂₉

Methods

Equals (inherited from Object), Finalize (inherited from Object), GetHashCode (inherited from Object), GetType (inherited from Object), MemberwiseClone (inherited from Object), ToString (inherited from Object)

Fields

name₃₀, status₃₀, taskId₃₀

Task Constructor

The only Constructor.

```
public Task(
   Guid id,
   string name,
   Status status
)
```

Parameters

id

The identifier.

name

The name of the task.

status

The status.

Remarks

Sets the basic properties of the task.

Source code

```
public Task(Guid id, string name, Status status)
{
    this.taskId = id;
    this.name = name;
    this.status = status;
}
```

See Also

Applies to: Task₂₇

Task.Name Property

Gets or sets the name.

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

Property Value

The name of the task.

Source code

```
public string Name
{
    get { return name; }
    set { name = value; }
}
```

See Also

Applies to: Task₂₇

Task.NameAndStatus Property

Gets the name and status.

C#

```
public string NameAndStatus {get;}
```

Property Value

The name and status formatted as one string.

Source code

```
public string NameAndStatus
{
    get { return name + " - " + status; }
}
```

See Also

Applies to: Task₂₇

Task.TaskId Property

Gets or sets the id.

```
public Guid TaskId {get; set;}
```

Property Value

The identifier of the task.

Source code

```
public Guid TaskId
{
    get { return taskId; }
    set { taskId = value; }
}
```

See Also

Applies to: Task₂₇

Task.TheStatus Property

Gets or sets the status.

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

Property Value

The status.

Source code

```
public Status TheStatus
{
    get { return status; }
    set { status = value; }
}
```

See Also

Applies to: Task₂₇

name Field

```
C# private string name
```

Source code

```
private string name;
```

See Also

Applies to: Task₂₇

status Field

```
C# private Status status
```

Source code

```
private Status status;
```

See Also

Applies to: Task₂₇

taskId Field

C#

private Guid taskId

Source code

private Guid taskId;

See Also

Applies to: Task₂₇

Team Class

Represents a team.

System.Object

PTSLibrary.Team

C#

public class Team

Remarks

Both internal and external teams are represented using this class.

Requirements

Namespace: PTSLibrary₆

Assembly: PTSLibrary (in PTSLibrary.dll)

Constructors

Team₃₁

Properties

Leader₃₅, Location₃₅, Name₃₅, TeamId₃₄

Methods

Equals (inherited from Object), Finalize (inherited from Object), GetHashCode (inherited from Object), GetType (inherited from Object), MemberwiseClone (inherited from Object), ToString (inherited from Object)

Fields

id₃₄, leader₃₅, location₃₅, name₃₅

Team Constructor

Constructor.

C#

```
public Team(
  int id,
  string location,
  string name,
  TeamLeader leader
)
```

Parameters

id

The identifier.

location

The location where the team is based.

name

The name of the team.

leader

The team leader.

Remarks

Sets the properties of the team.

Source code

```
public Team(int id, string location, string name, TeamLeader leader)
{
    this.location = location;
    this.name = name;
    this.id = id;
    this.leader = leader;
}
```

See Also

Applies to: Team₃₁

Team.Leader Property

Gets or sets the leader.

```
public TeamLeader Leader {get; set;}
```

Property Value

The team leader.

Source code

```
public TeamLeader Leader
```

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```
{
    get { return leader; }
    set { leader = value; }
}
```

See Also

Applies to: Team₃₁

Team.Location Property

Gets or sets the location.

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

Property Value

The location where the team is based.

Source code

```
public string Location
{
    get { return location; }
    set { location = value; }
}
```

See Also

Applies to: Team₃₁

Team.Name Property

Gets or sets the name.

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

Property Value

The name of the team.

Source code

```
public string Name
{
   get { return name; }
```

```
set { name = value; }
}
```

See Also

Applies to: Team₃₁

Team.TeamId Property

Gets or sets the identifier of the team.

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

Property Value

The identifier of the team.

Source code

```
public int TeamId
{
    get { return id; }
    set { id = value; }
}
```

See Also

Applies to: Team₃₁

id Field

```
C# private int id
```

Source code

```
private int id;
```

See Also

Applies to: Team₃₁

leader Field

C#

private TeamLeader leader

Source code

```
private TeamLeader leader;
```

See Also

Applies to: Team₃₁

location Field

C#

private string location

Source code

```
private string location, name;
```

See Also

Applies to: Team₃₁

name Field

C#

private string name

Source code

```
private string location, name;
```

See Also

Applies to: Team₃₁

TeamLeader Class

A team leader.

```
System.Object
PTSLibrary.User<sub>38</sub>
```

PTSLibrary.TeamLeader

```
public class TeamLeader : User
```

Remarks

This is a subclass of the User superclass.

Requirements

Namespace: PTSLibrary₆

Assembly: PTSLibrary (in PTSLibrary.dll)

Constructors

TeamLeader₃₆

Properties

Id₃₉ (inherited from User), Name₄₀ (inherited from User), TeamId₃₇

Methods

Equals (inherited from Object), Finalize (inherited from Object), GetHashCode (inherited from Object), GetType (inherited from Object), MemberwiseClone (inherited from Object), ToString (inherited from Object)

Fields

id₃₉ (inherited from User), name₄₀ (inherited from User), teamId₃₇

TeamLeader Constructor

Constructor.

```
public TeamLeader(
   string name,
   int id,
   int teamId
)
```

Parameters

name

The name of the team.

id

The user identifier of the team leader.

teamId

The identifier of the team led by the leader.

Remarks

Generates a TeamLeader object with the provided properties.

Source code

```
public TeamLeader(string name, int id, int teamId)
{
   this.name = name;
   this.id = id;
   this.teamId = teamId;
}
```

See Also

Applies to: TeamLeader₃₅

TeamLeader.TeamId Property

Gets or sets the id of the team.

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

Property Value

The identifier of the leader's team.

Source code

```
public int TeamId
{
    get { return teamId; }
    set { teamId = TeamId; }
}
```

See Also

Applies to: TeamLeader₃₅

teamId Field

```
C#
private int teamId
```

```
private int teamId;
```

Applies to: TeamLeader₃₅

User Class

User of the system.

System.Object

PTSLibrary.User

PTSLibrary.Customer₆ PTSLibrary.TeamLeader₃₅

C#

public class User

Remarks

Represents any person who interacts with the PTS System. Customer and TeamLeader.

This class acts as the base class for

Requirements

Namespace: PTSLibrary₆

Assembly: PTSLibrary (in PTSLibrary.dll)

Properties

Id₃₉, Name₄₀

Methods

Equals (inherited from Object), Finalize (inherited from Object), GetHashCode (inherited from Object), GetType (inherited from Object), MemberwiseClone (inherited from Object), ToString (inherited from Object)

Fields

id₃₉, name₄₀

User.Id Property

Gets the identifier.

C#

public int Id {get;}

Property Value

The user identifier.

Remarks

Id is a readonly property.

Source code

```
public int Id
{
    get { return id; }
}
```

See Also

Applies to: User₃₈

User.Name Property

Gets the name.

```
public string Name {get;}
```

Property Value

The username.

Remarks

Username is a readonly property.

Source code

```
public string Name
{
    get { return name; }
}
```

See Also

Applies to: User₃₈

id Field

The user identifier.

```
C# protected int id
```

```
protected int id;
```

Applies to: User₃₈

name Field

The username.

C#

protected string name

Source code

protected string name;

See Also

Applies to: User₃₈

Status Enumeration

Enumeration of values that represent status.

Constant	Value	Description
ReadyToStart	1	Task is ready but not commenced.
InProgress	2	Task is being executed.
Completed	3	Task is finished.
WaitingForPredecessor	4	Task is waiting for another to be completed.

Requirements

Namespace: PTSLibrary₆

Assembly: PTSLibrary (in PTSLibrary.dll)

PTSLibrary.DAO Namespace

Classes

AdminDAO₄₁, ClientDAO₄₉, CustomerDAO₅₂, SuperDAO₅₅

AdminDAO Class

An admin database access object.

System.Object PTSLibrary.DAO.SuperDAO₅₅ **PTSLibrary.DAO.AdminDAO**

```
C#
internal class AdminDAO : SuperDAO
```

Remarks

This is a subclass of SuperDAO that enables administrators to access the restricted database records.

Requirements

Namespace: PTSLibrary. DAO₄₁

Assembly: PTSLibrary (in PTSLibrary.dll)

Methods

Authenticate₄₁, CreateProject₄₂, CreateTask₄₄, Equals (inherited from Object), Finalize (inherited from Object), GetCustomer₅₆ (inherited from SuperDAO), GetHashCode (inherited from Object), GetListOfCustomers₄₈, GetListOfProjects₄₈, GetListOfTasks₅₇ (inherited from SuperDAO), GetListOfTeams₄₈, GetType (inherited from Object), MemberwiseClone (inherited from Object), ToString (inherited from Object)

AdminDAO.Authenticate Method

Authenticates an administrator.

```
public int Authenticate(
    string username,
    string password
)
```

Parameters

username

The username.

password

The password.

Returns

The administrator user id, or '0' if authentication fails.

Exceptions

Exception type	Condition
Exception	Thrown when an sql exception error condition occurs.

Remarks

The method checks the IsAdministrator flag in Users table.

Source code

```
public int Authenticate(string username, string password)
     string sql;
     SqlConnection cn;
     SqlCommand cmd;
     SqlDataReader dr;
     sql = String.Format("SELECT UserId FROM Person WHERE IsAdministrator = 1
AND Username='{0}' " +
                             "AND Password='{1}'", username, password);
     cn = new SqlConnection(Properties.Settings.Default.ConnectionString);
     cmd = new SqlCommand(sql, cn);
     int id = 0;
     try
     {
         cn.Open();
         dr = cmd.ExecuteReader(CommandBehavior.SingleRow);
         if (dr.Read())
         {
             id = (int)dr["UserId"];
         dr.Close();
     catch (SqlException ex)
         throw new Exception("Error Accessing Database", ex);
     finally
     {
         cn.Close();
     return id;
 }
```

See Also

Applies to: AdminDAO₄₁

AdminDAO.CreateProject Method

Creates a new project and stores it in the database.

```
public void CreateProject(
   string name,
   DateTime startDate,
   DateTime endDate,
   int customerId,
   int administratorId
)
```

Parameters

name

The name.

startDate

The expected start date.

endDate

The expected end date.

customerId

Identifier for the customer.

administratorId

Identifier for the project administrator.

Exceptions

Exception type	Condition
Exception	Thrown when an exception error condition occurs.

Remarks

This method registers a new project.

```
public void CreateProject(string name, DateTime startDate, DateTime endDate,
int customerId, int administratorId)
     string sql;
     SqlConnection cn;
     SqlCommand cmd;
     Guid projectId = Guid.NewGuid();
     sql = "INSERT INTO Project (ProjectId, Name, ExpectedStartDate,
ExpectedEndDate, CustomerId, AdministratorId)";
     sql += String.Format("VALUES ( '{0}', '{1}', '{2}', '{3}', {4}, {5})",
                             projectId, name, startDate, endDate, customerId,
administratorId);
     cn = new SqlConnection(Properties.Settings.Default.ConnectionString);
     cmd = new SqlCommand(sql, cn);
     try
     {
         cn.Open();
```

```
cmd.ExecuteNonQuery();
}
catch (SqlException ex)
{
    throw new Exception("Error Inserting", ex);
}
finally
{
    cn.Close();
}
```

Applies to: AdminDAO₄₁

AdminDAO.CreateTask Method

Creates a new task.

```
public void CreateTask(
   string name,
   DateTime startDate,
   DateTime endDate,
   int teamId,
   Guid projectId
)
```

Parameters

name

The name of the task.

startDate

The expected start date.

endDate

The expected end date.

teamId

Identifier for the team assigned the task.

projectId

Identifier for the project.

Exceptions

Exception type	Condition
Exception	Thrown when an exception error condition occurs.

Remarks

Registers a new task or subtask for a project.

Source code

```
public void CreateTask(string name, DateTime startDate, DateTime endDate, int
teamId, Guid projectId)
     string sql;
     SqlConnection cn;
     SqlCommand cmd;
     Guid taskId = Guid.NewGuid();
     sql = "INSERT INTO Task (TaskId, Name, ExpectedDateStarted,
ExpectedDateCompleted, ProjectId, TeamId, StatusId)";
     sql += String.Format("VALUES ( '{0}', '{1}', '{2}', '{3}', '{4}', {5},
{6})", taskId, name,
                             startDate, endDate, projectId, teamId, 1);
     cn = new SqlConnection(Properties.Settings.Default.ConnectionString);
     cmd = new SqlCommand(sql, cn);
     try
     {
         cn.Open();
         cmd.ExecuteNonQuery();
     catch (SqlException ex)
         throw new Exception("Error Inserting", ex);
     finally
     {
         cn.Close();
     }
 }
```

See Also

Applies to: AdminDAO₄₁

AdminDAO.GetListOfCustomers Method

Gets list of customers.

```
public List<Customer> GetListOfCustomers()
```

Returns

The list of all customers.

Exceptions

Exception type	Condition
Exception	Thrown when an exception error condition occurs.

Remarks

Gets the list of customers who have commissioned projects.

Source code

```
public List<Customer> GetListOfCustomers()
     string sql;
    SqlConnection cn;
    SqlCommand cmd;
    SqlDataReader dr;
    List<Customer> customers;
     customers = new List<Customer>();
     sql = "SELECT * FROM Customer";
    cn = new SqlConnection(Properties.Settings.Default.ConnectionString);
    cmd = new SqlCommand(sql, cn);
    try
     {
         cn.Open();
         dr = cmd.ExecuteReader();
        while (dr.Read())
             Customer c = new Customer(dr["Name"].ToString(),
(int)dr["CustomerId"]);
             customers.Add(c);
         dr.Close();
     }
    catch (SqlException ex)
         throw new Exception("Error Getting list", ex);
    finally
     {
         cn.Close();
    return customers;
}
```

See Also

Applies to: AdminDAO₄₁

AdminDAO.GetListOfProjects Method

Gets list of projects.

```
public List<Project> GetListOfProjects(
   int adminId
)
```

Parameters

adminId

User Id for the admin.

Returns

The list of projects for an administrator.

Exceptions

Exception type	Condition
Exception	Thrown when an exception error condition occurs.

Remarks

This method queries the database for all projects that match a given administrator.

Source code

```
public List<Project> GetListOfProjects(int adminId)
     string sql;
    SqlConnection cn;
    SqlCommand cmd;
    SqlDataReader dr;
    List<Project> projects;
    projects = new List<Project>();
     sql = "SELECT * FROM Project WHERE AdministratorId = " + adminId;
     cn = new SqlConnection(Properties.Settings.Default.ConnectionString);
     cmd = new SqlCommand(sql, cn);
    try
     {
         cn.Open();
        dr = cmd.ExecuteReader();
        while (dr.Read())
             Customer cust = GetCustomer((int)dr["CustomerId"]);
             Project p = new Project(dr["Name"].ToString(),
(DateTime)dr["ExpectedStartDate"],
            (DateTime)dr["ExpectedEndDate"], (Guid)dr["ProjectId"], cust);
             projects.Add(p);
         dr.Close();
     }
    catch (SqlException ex)
        throw new Exception("Error Getting list", ex);
    finally
     {
         cn.Close();
    return projects;
}
```

See Also

Applies to: AdminDAO₄₁

AdminDAO.GetListOfTeams Method

Gets list of teams.

```
public List<Team> GetListOfTeams()
```

Returns

The list of all teams.

Exceptions

Exception type	Condition
Exception	Thrown when an exception error condition occurs.

Remarks

Gets all teams without filtering by any criterion.

```
public List<Team> GetListOfTeams()
    string sql;
   SqlConnection cn;
   SqlCommand cmd;
   SqlDataReader dr;
   List<Team> teams;
   teams = new List<Team>();
    sql = "SELECT * FROM Team";
   cn = new SqlConnection(Properties.Settings.Default.ConnectionString);
    cmd = new SqlCommand(sql, cn);
   try
    {
        cn.Open();
        dr = cmd.ExecuteReader();
        while (dr.Read())
            Team t = new Team((int)dr["TeamId"], dr["Location"].ToString(),
           dr["Name"].ToString(), null);
           teams.Add(t);
        dr.Close();
   catch (SqlException ex)
        throw new Exception("Error getting team list", ex);
   finally
        cn.Close();
    return teams;
}
```

Applies to: AdminDAO₄₁

ClientDAO Class

A client database access object.

System.Object
PTSLibrary.DAO.SuperDAO₅₅
PTSLibrary.DAO.ClientDAO

```
c#
internal class ClientDAO : SuperDAO
```

Remarks

A client refers to a team leader (Not a Customer). This DAO allows a team leader to manage projects assigned to their team.

Requirements

Namespace: PTSLibrary. DAO₄₁

Assembly: PTSLibrary (in PTSLibrary.dll)

Methods

Authenticate₄₉, Equals (inherited from Object), Finalize (inherited from Object), GetCustomer₅₆ (inherited from SuperDAO), GetHashCode (inherited from Object), GetListOfProjects₅₀, GetListOfTasks₅₇ (inherited from SuperDAO), GetType (inherited from Object), MemberwiseClone (inherited from Object), ToString (inherited from Object)

ClientDAO.Authenticate Method

Authenticates the team leader.

```
public TeamLeader Authenticate(
    string username,
    string password
)
```

Parameters

username

The username.

password

The password.

Returns

A TeamLeader.

Exceptions

Exception type	Condition
Exception	Thrown when an exception error condition occurs.

Remarks

This method authenticates users only if they are team leaders.

Source code

```
public TeamLeader Authenticate(string username, string password)
     string sql;
     SqlConnection cn;
     SqlCommand cmd;
     SqlDataReader dr;
     TeamLeader teamLeader = null;
     sql = String.Format("SELECT DISTINCT Person.Name, UserId, TeamId FROM
Person " +
                         "INNER JOIN Team ON (Team.TeamLeaderId = Person.UserId)
" +
                         "WHERE Username='{0}' AND Password='{1}'", username,
password);
     cn = new SqlConnection(Properties.Settings.Default.ConnectionString);
     cmd = new SqlCommand(sql, cn);
     try
     {
         cn.Open();
         dr = cmd.ExecuteReader(CommandBehavior.SingleRow);
         if (dr.Read())
             teamLeader = new TeamLeader(dr["Name"].ToString(),
(int)dr["UserId"], (int)dr["TeamId"]);
         dr.Close();
     catch (SqlException ex)
         throw new Exception("Error Accessing Database", ex);
     finally
     {
         cn.Close();
     return teamLeader;
 }
```

See Also

Applies to: ClientDAO₄₉

ClientDAO.GetListOfProjects Method

Gets list of projects.

```
public List<Project> GetListOfProjects(
   int teamId
)
```

Parameters

teamId

Identifier for the team.

Returns

The list of projects.

Exceptions

Exception type	Condition
Exception	Thrown when an exception error condition occurs.

Remarks

Gets the list of projects for a particular team.

```
public List<Project> GetListOfProjects(int teamId)
     string sql;
     SqlConnection cn;
     SqlCommand cmd;
     SqlDataReader dr;
     List<Project> projects;
     projects = new List<Project>();
     sql = "SELECT P.* FROM Project AS P INNER JOIN Task AS T ON (P.ProjectId =
T.ProjectId) WHERE T.TeamId = " + teamId;
     cn = new SqlConnection(Properties.Settings.Default.ConnectionString);
     cmd = new SqlCommand(sql, cn);
     try
     {
         cn.Open();
         dr = cmd.ExecuteReader();
         while (dr.Read())
         {
             Customer cust = GetCustomer((int)dr["CustomerId"]);
             Project p = new Project(dr["Name"].ToString(),
(DateTime)dr["ExpectedStartDate"],
            (DateTime)dr["ExpectedEndDate"], (Guid)dr["ProjectId"], cust);
             projects.Add(p);
         }
         dr.Close();
     }
     catch (SqlException ex)
         throw new Exception("Error Getting list", ex);
```

```
finally
{
     cn.Close();
}
return projects;
}
```

Applies to: ClientDAO₄₉

CustomerDAO Class

A customer database access object.

System.Object PTSLibrary.DAO.SuperDAO₅₅ **PTSLibrary.DAO.CustomerDAO**

```
C#
internal class CustomerDAO : SuperDAO
```

Remarks

Provides an interface through which a customer can access the database.

Requirements

Namespace: PTSLibrary. DAO₄₁

Assembly: PTSLibrary (in PTSLibrary.dll)

Methods

Authenticate₅₂, Equals (inherited from Object), Finalize (inherited from Object), GetCustomer₅₆ (inherited from SuperDAO), GetHashCode (inherited from Object), GetListOfProjects₅₄, GetListOfTasks₅₇ (inherited from SuperDAO), GetType (inherited from Object), MemberwiseClone (inherited from Object), ToString (inherited from Object)

CustomerDAO.Authenticate Method

Authenticates a customer.

```
public int Authenticate(
   string username,
   string password
)
```

Parameters

username

The username.

password

The customer password.

Returns

The customer id but when authentication fails, returns '0'.

Exceptions

Exception type	Condition
Exception	Thrown when an exception error condition occurs.

Source code

```
public int Authenticate(string username, string password)
     string sql;
     SqlConnection cn;
     SqlCommand cmd;
     SqlDataReader dr;
     sql = String.Format("SELECT CustomerId FROM Customer WHERE Username='{0}' "
+
                             "AND Password='{1}'", username, password);
     cn = new SqlConnection(Properties.Settings.Default.ConnectionString);
     cmd = new SqlCommand(sql, cn);
     int id = 0;
     try
     {
         cn.Open();
         dr = cmd.ExecuteReader(CommandBehavior.SingleRow);
         if (dr.Read())
             id = (int)dr["CustomerId"];
         dr.Close();
     catch (SqlException ex)
         throw new Exception("Error Accessing Database", ex);
     finally
     {
         cn.Close();
     return id;
 }
```

See Also

Applies to: CustomerDAO₅₂

CustomerDAO.GetListOfProjects Method

Gets list of projects.

```
public List<Project> GetListOfProjects(
   int customerId
)
```

Parameters

customerId

Identifier for the customer.

Returns

The list of projects.

Exceptions

Exception type	Condition
Exception	Thrown when an exception error condition occurs.

Remarks

This method queries the database for projects that belong to a customer.

```
public List<Project> GetListOfProjects(int customerId)
     string sql;
     SqlConnection cn;
     SqlCommand cmd;
     SqlDataReader dr;
     List<Project> projects;
     projects = new List<Project>();
     sql = "SELECT * FROM Project WHERE CustomerId = " + customerId.ToString();
     cn = new SqlConnection(Properties.Settings.Default.ConnectionString);
     cmd = new SqlCommand(sql, cn);
     try
         cn.Open();
         dr = cmd.ExecuteReader();
         SqlConnection cn2; SqlCommand cmd2; SqlDataReader dr2;// string sql2;
//custom
        while (dr.Read())
             List<Task> tasks = new List<Task>();
             sql = "SELECT * FROM Task WHERE ProjectId = '" +
dr["ProjectId"].ToString() + "'";
             //sql2 = "SELECT * FROM Task WHERE ProjectId = '" +
dr["ProjectId"].ToString() + "'";
```

```
SqlConnection(Properties.Settings.Default.ConnectionString);
             cmd2 = new SqlCommand(sql, cn2);
             cn2.Open();
             dr2 = cmd2.ExecuteReader();
             while (dr2.Read())
                 Task t = new Task((Guid)dr2["TaskId"], dr2["Name"].ToString(),
                                          (Status)dr2["StatusId"]);
                 tasks.Add(t);
             }
             dr2.Close();
             Project p = new Project(dr["Name"].ToString(),
(DateTime)dr["ExpectedStartDate"],
                                  (DateTime)dr["ExpectedEndDate"],
(Guid)dr["ProjectId"], tasks);
             projects.Add(p);
             cn2.Close();
         }
         dr.Close();
     }
     catch (SqlException ex)
         throw new Exception("Error Getting list", ex);
     finally
     {
         cn.Close();
     return projects;
 }
```

Applies to: CustomerDAO₅₂

SuperDAO Class

The super DAO.

System.Object

PTSLibrary.DAO.SuperDAO

PTSLibrary.DAO.AdminDAO₄₁ PTSLibrary.DAO.ClientDAO₄₉ PTSLibrary.DAO.CustomerDAO₅₂

```
C#
```

```
public class SuperDAO
```

Remarks

Acts as a base class for data access objects. applications access the database indirectly.

DAO's provide an interface through which

Requirements

Namespace: PTSLibrary. DAO₄₁

Assembly: PTSLibrary (in PTSLibrary.dll)

Methods

Equals (inherited from Object), Finalize (inherited from Object), GetCustomer₅₆, GetHashCode (inherited from Object), GetListOfTasks₅₇, GetType (inherited from Object), MemberwiseClone (inherited from Object), ToString (inherited from Object)

SuperDAO.GetCustomer Method

Gets the customer.

```
protected Customer GetCustomer(
   int custId
)
```

Parameters

custId

Identifier for the customer.

Returns

The customer.

Exceptions

Exception type	Condition
Exception	Thrown when an exception error condition occurs during sql query.

Remarks

This method queries the database for customer details using a given Customer (User) Id.

```
protected Customer GetCustomer(int custId)
{
    string sql;
    SqlConnection cn;
    SqlCommand cmd;
    SqlDataReader dr;
    Customer cust;

    sql = "SELECT * FROM Customer WHERE CustomerId = " + custId;
    cn = new SqlConnection(Properties.Settings.Default.ConnectionString);
    cmd = new SqlCommand(sql, cn);
    try
    {
        cn.Open();
    }
}
```

```
dr = cmd.ExecuteReader(CommandBehavior.SingleRow);
    dr.Read();
    cust = new Customer(dr["Name"].ToString(), (int)dr["CustomerId"]);
    dr.Close();
}
catch (SqlException ex)
{
    throw new Exception("Error Getting Customer", ex);
}
finally
{
    cn.Close();
}
return cust;
}
```

Applies to: SuperDAO₅₅

SuperDAO.GetListOfTasks Method

Gets list of tasks for a given project.

```
public List<Task> GetListOfTasks(
   Guid projectId
)
```

Parameters

projectId

Identifier for the project.

Returns

The list of tasks.

Exceptions

Exception type	Condition
Exception	Thrown when an sql exception error condition occurs.

Remarks

Gets the tasks saved in the database for one project.

```
public List<Task> GetListOfTasks(Guid projectId)
{
    string sql;
```

```
SqlConnection cn;
    SqlCommand cmd;
    SqlDataReader dr;
    List<Task> tasks;
    tasks = new List<Task>();
    sql = "SELECT * FROM Task WHERE ProjectId = '" + projectId + "'";
    cn = new SqlConnection(Properties.Settings.Default.ConnectionString);
    cmd = new SqlCommand(sql, cn);
    try
         cn.Open();
        dr = cmd.ExecuteReader();
        while(dr.Read())
             Task t = new Task((Guid)dr["TaskId"], dr["Name"].ToString(),
(Status)((int)dr["StatusId"]));
            tasks.Add(t);
        dr.Close();
    }
    catch (SqlException ex)
        throw new Exception("Error getting tasks list", ex);
    finally
         cn.Close();
    return tasks;
}
```

Applies to: SuperDAO₅₅

PTSLibrary.Properties Namespace

Classes

Settings₅₉

Settings Class

System.Object
System.Configuration.SettingsBase
System.Configuration.ApplicationSettingsBase

PTSLibrary.Properties.Settings

```
C#
```

```
[global::System.Runtime.CompilerServices.CompilerGenerated()]
[global::System.CodeDom.Compiler.GeneratedCode("Microsoft.VisualStudio.Editors.S
ettingsDesigner.SettingsSingleFileGenerator", "15.7.0.0")]
internal sealed class Settings : ApplicationSettingsBase
```

Requirements

Namespace: PTSLibrary. Properties 59

Assembly: PTSLibrary (in PTSLibrary.dll)

Properties

ConnectionString₆₀, Context (inherited from ApplicationSettingsBase), Default₆₁, IsSynchronized (inherited from SettingsBase), Item (inherited from ApplicationSettingsBase), Properties (inherited from ApplicationSettingsBase), PropertyValues (inherited from ApplicationSettingsBase), Providers (inherited from ApplicationSettingsBase), SettingsKey (inherited from ApplicationSettingsBase)

Methods

Equals (inherited from Object), Finalize (inherited from Object), GetHashCode (inherited from Object), GetPreviousVersion (inherited from ApplicationSettingsBase), GetType (inherited from Object), Initialize (inherited from SettingsBase), MemberwiseClone (inherited from Object), OnPropertyChanged (inherited from ApplicationSettingsBase), OnSettingChanging (inherited from ApplicationSettingsBase), OnSettingsBase), OnSettingsBase), OnSettingsBase), OnSettingsBase), Reload (inherited from ApplicationSettingsBase), Reset (inherited from ApplicationSettingsBase), Save (inherited from ApplicationSettingsBase), ToString (inherited from Object), Upgrade (inherited from ApplicationSettingsBase)

Events

PropertyChanged (inherited from ApplicationSettingsBase), SettingChanging (inherited from ApplicationSettingsBase), SettingsLoaded (inherited from ApplicationSettingsBase), SettingsSaving (inherited from ApplicationSettingsBase)

Fields

defaultInstance₆₁

Settings.ConnectionString Property

```
[global::System.Configuration.ApplicationScopedSetting()]
[global::System.Diagnostics.DebuggerNonUserCode()]
[global::System.Configuration.SpecialSetting(global::System.Configuration.SpecialSetting.ConnectionString)]
[global::System.Configuration.DefaultSettingValue("Data Source=XPLICIT;InitialCatalog=wm75;Integrated Security=True")]
public string ConnectionString {get;}
```

Source code

```
[global::System.Configuration.ApplicationScopedSettingAttribute()]
[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]

[global::System.Configuration.SpecialSettingAttribute(global::System.Configuration.SpecialSetting.ConnectionString)]
   [global::System.Configuration.DefaultSettingValueAttribute("Data Source=XPLICIT;Initial Catalog=wm75;Integrated Security=True")]

public string ConnectionString {
    get {
        return ((string)(this["ConnectionString"]));
    }
}
```

See Also

Applies to: Settings₅₉

Settings.Default Property

```
public static Settings Default {get;}
```

Source code

```
public static Settings Default {
    get {
       return defaultInstance;
    }
}
```

See Also

Applies to: Settings₅₉

defaultInstance Field

C#

new private static Settings defaultInstance

Source code

private static Settings defaultInstance =
 ((Settings)(global::System.Configuration.ApplicationSettingsBase.Synchronized(ne
w Settings())));

See Also

Applies to: Settings₅₉

Index

AdminDAO Class 41 Authenticate Method {PTSLibrary.DAO.AdminDAO} 41 PTSAdminFacade Constructor 8 Authenticate Method {PTSLibrary.DAO.ClientDAO} 49 PTSClientFacade Class 13 Authenticate Method {PTSLibrary.DAO.CustomerDAO} PTSClientFacade Constructor 13 52 PTSCustomerFacade Class 16 Authenticate Method {PTSLibrary.PTSAdminFacade} 8 PTSCustomerFacade Constructor 16 Authenticate Method {PTSLibrary.PTSClientFacade} 14 PTSLibrary Namespace 6 ClientDAO Class 49 PTSLibrary Reference 5 ConnectionString Property 60 PTSLibrary.DAO Namespace 41 CreateProject Method {PTSLibrary.DAO.AdminDAO} 42 PTSLibrary.Properties Namespace 59 CreateProject Method {PTSLibrary.PTSAdminFacade} 10 PTSSuperFacade Class 18 CreateTask Method {PTSLibrary.DAO.AdminDAO} 44 PTSSuperFacade Constructor 18 CreateTask Method {PTSLibrary.PTSAdminFacade} 10 Project (String, DateTime, DateTime, Guid, Customer) Customer Class 6 Constructor 21 Customer Constructor 6 Project (String, DateTime, DateTime, Guid, List<Task>) CustomerDAO Class 52 Constructor 20 Default Property 61 Project Class 20 ExpectedEndDate Property 25 ProjectId Property 26 ExpectedStartDate Property 25 Settings Class 59 GetCustomer Method 56 Status Enumeration 40 GetListOfCustomers Method SuperDAO Class 55 {PTSLibrary.DAO.AdminDAO} 48 Task Class 27 GetListOfCustomers Method Task Constructor 27 {PTSLibrary.PTSAdminFacade} 12 TaskId Property 30 GetListOfProjects Method {PTSLibrary.DAO.AdminDAO} Tasks Property 26 Team Class 31 GetListOfProjects Method {PTSLibrary.DAO.ClientDAO} Team Constructor 31 50 TeamId Property {PTSLibrary.TeamLeader} 37 GetListOfProjects Method TeamId Property {PTSLibrary.Team} 34 {PTSLibrary.DAO.CustomerDAO} 54 TeamLeader Class 35 GetListOfProjects Method {PTSLibrary.PTSAdminFacade} TeamLeader Constructor 36 TheCustomer Property 26 GetListOfProjects Method {PTSLibrary.PTSClientFacade} TheStatus Property 29 User Class 38 GetListOfProjects Method dao Field {PTSLibrary.PTSAdminFacade} 12 {PTSLibrary.PTSCustomerFacade} 17 dao Field {PTSLibrary.PTSClientFacade} 15 GetListOfTasks Method {PTSLibrary.DAO.SuperDAO} 57 dao Field {PTSLibrary.PTSCustomerFacade} 17 GetListOfTasks Method {PTSLibrary.PTSSuperFacade} dao Field {PTSLibrary.PTSSuperFacade} 19 defaultInstance Field 61 GetListOfTeams Method {PTSLibrary.DAO.AdminDAO} expectedEndDate Field 25 expectedStartDate Field 25 GetListOfTeams Method {PTSLibrary.PTSAdminFacade} id Field {PTSLibrary.Team} 34 12 id Field {PTSLibrary.User} 39 Id Property 39 leader Field 35 Leader Property 35 location Field 35 Location Property 35 name Field {PTSLibrary.Project} 25 Name Property (PTSLibrary.Project) 25 name Field {PTSLibrary.Task} 30 Name Property {PTSLibrary.Task} 30 name Field {PTSLibrary.Team} 35 name Field {PTSLibrary.User} 40 Name Property (PTSLibrary.Team) 35 Name Property {PTSLibrary.User} 40 projectId Field 26 NameAndStatus Property 28 status Field 30 PTSAdminFacade Class 7 taskId Field 30

PTSLIBRARY REFERENCE

tasks Field 26 teamId Field 37 theCustomer Field 26