

Clone in Desktop

Task 2 - Implement the following commands

3. Add a HashSet<Category> property to the Todo class4. Add a Dictionary<string,Category> to the TodoModel class

- 1. SetCategoryCommand add a todo item to a category, create the category if necessary
- 2. $\begin{cal}{c} ClearCategoryCommand \end{cal} remove a todo item from a category \end{cal}$
- 3. ${\tt SetCategoriesCommand}$ set the category associations for a given todo

2. Add a class named Category with a Name and HashSet<Todo> property

Task 3 - Test the model using scriptcs

1. Create a todo.csx file in the excercise folder with the following content:

```
#r Todo.Core\bin\debug\Todo.Core.dll

using Todo.Core;
using OrigoDB.Core;

var engine = Engine.LoadOrCreate<TodoModel>();

var haskell = engine.Execute(new AddTodoCommand("Learn Haskell"));
var cook = engine.Execute(new AddTodoCommand("Lamb Roast on Sunday"));
var dishes = engine.Execute(new AddTodoCommand("Do the dishes"));

engine.Execute(new SetCategoriesCommand{
    TodoId = haskell,
    Categories = new[]{"work", "play"}
});

engine.Execute(new SetCategoryCommand(cook,"play"));
engine.Execute(new SetCategoryCommand(dishes, "work"));
```

- 2. Launch the script and remain in the REPL.
- 3. Have a look at a dump of the model by typing <code>engine.GetModel()</code>

Task 4 - Working with lambda queries

In the scriptcs repl, type lambdas to return the following:

- 1. Category names
- 2. Todo item names in alphabetical order
- 3. Unfinished todo items
- 4. Overdue todo items

See the Completed folder for example solutions in the file lambdas.csx

Task 5 - Queries and Views

1. In Visual Studio, create the following view class:

```
[Serializable]
public class TodoView
{
    public readonly int Id;
    public readonly string Title;
    public readonly string[] Categories;

public TodoView(Todo todo)
    {
        Id = todo.Id;
        Title = todo.Title;
        Categories = todo.Categories.Select(c => c.Name).ToArray();
    }
}
```

2. Create a query to retrieve todos by id:

```
[Serializable]
public class GetTodoByIdQuery : Query<TodoModel, TodoView>
{
    public readonly int Id;

    public GetTodoByIdQuery(int id)
    {
        Id = id;
    }

    public override TodoView Execute(TodoModel model)
    {
        return new TodoView(model.Todos[Id]);
    }
}
```

- 3. Create a query named PagedTodosQuery returning TodoView[] with Skip and Take properties (order by ld).
- 4. Rewrite one or more of the lambdas from task 4 as queries, try LINQ syntax

```
+ Add a custom footer
```

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