DevIncubator Management System

Mentor role

Actions	Mentor
Watch the **Member's Manage Grid**	+
Add, edit, and delete a member on **Member's Manage Grid**	-
Watch the **Member's Progress grid**	+
Watch the **Tasks Manage Grid**	+
Add, edit, and delete a **New task**	+
Watch the **Member's Task Manage grid**	+
Set the **Member task's state** as Success or Fail	+
Watch the **Subtasks Manage Grid** of the current **Task**	-
Add, edit, and delete a **Subtasks** of the current Task	-

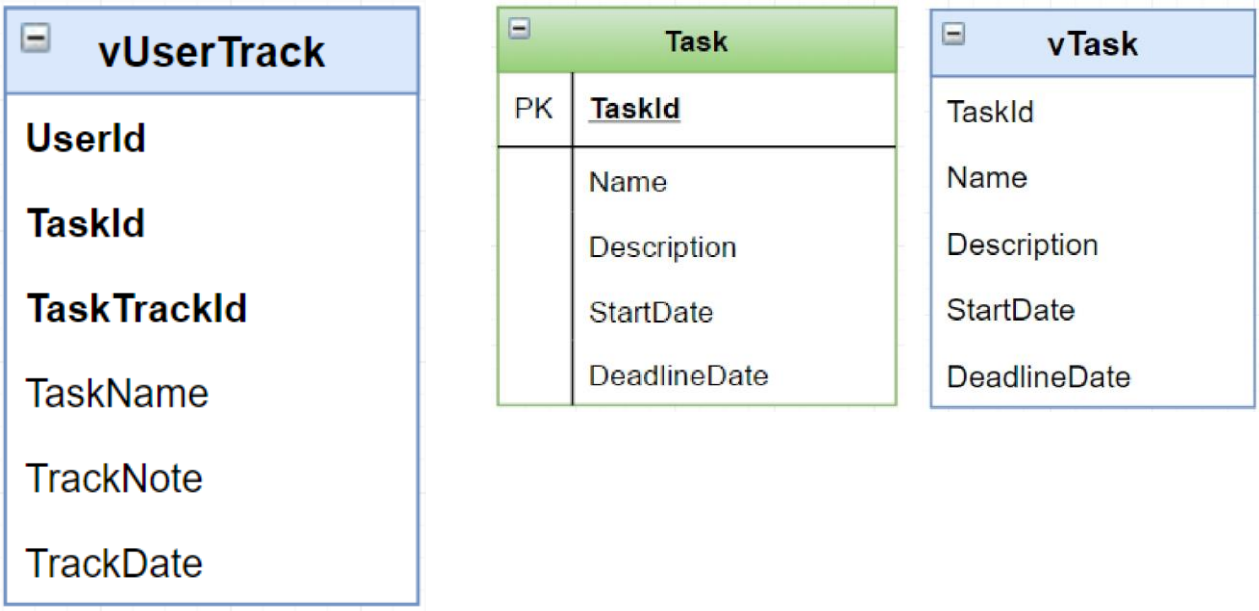
1st week:

Death valley rewriting. You should rewrite you first project "Death Valley" following n-layer architecture pattern: database layer, business layer, presentational layer. Here is a detailed plan about what you should do. Additionally you should write unit tests to repositories and controllers. It will be super if you add also 2-3 integration tests. For the task you should create repository on github. During this week go deeper in learning of version control system like git. You can follow one of these sources githowto / git-scm / try-github to improve your skills for example and use one of the following GUI Source Tree or GitKraken

2nd week:

You should create the **Task** table, **vTask**, **vUserTrack** views view with all needed constrains (remember! you must use only the table level constraints not the column one).

Also you should to create the **DeleteTask** procedure, which takes the **TaskId** as an input parameter and delete the **Task** entry.



3rd week:
Learn how to write unit-tests properly and write unit-tests for you repositories. Read about different approaches, **rule of "AAA"**, **right naming** and **code convention** relating unit testing.

Look at the following tools.
For test coverage of application we will use **dotCover**. Another popular libraries:

- **OpenCover**
- **ncrunch**
- **etc**

For unit tests writing we will use **NUnit**. Another popular libraries:

- **xUnit**
- **MSTest**

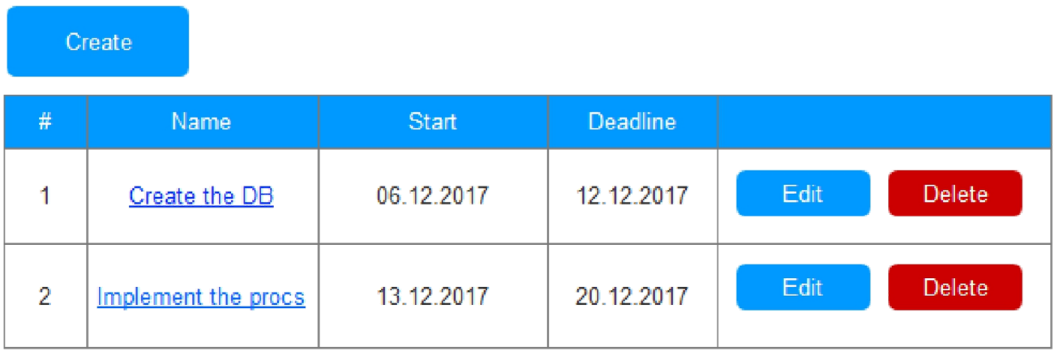
For fake/mock/stub we will use **moq**. Another popular libraries:

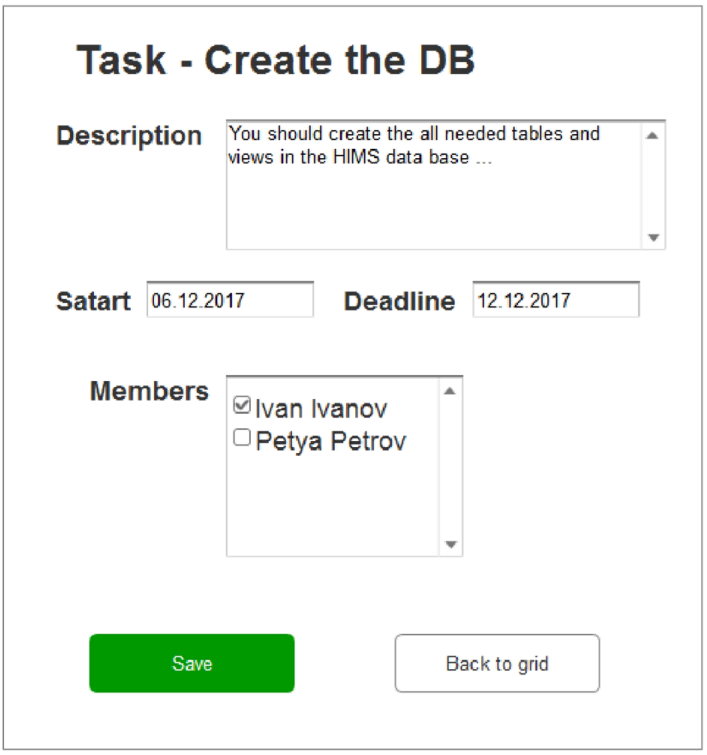
- **nsubstitute**
- **fakeiteasy**
- **etc**

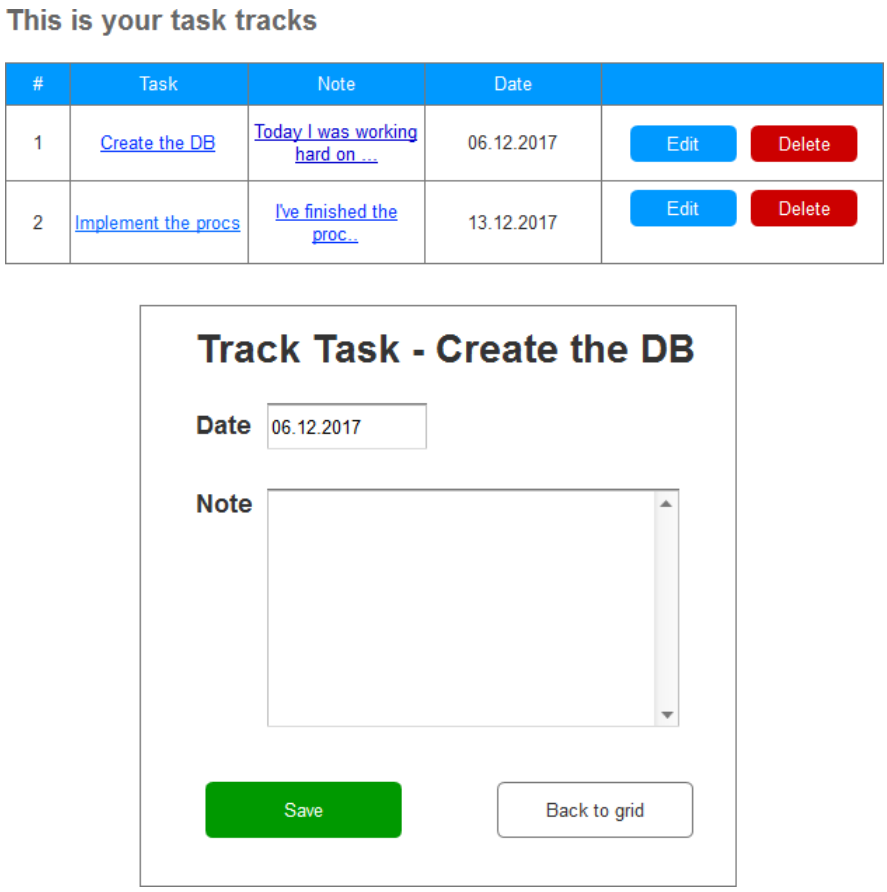
4th week:

Tasks Manage Grid page & **Task Tracks Manage Grid page are** the simple grids with typical CRUD actions. You need to implement the Task Data Transfer Object.

Important note. As you can see on the Create/Edit page there is the checkboxes list with all available members. The admin can choose all needed members. When you add a new **Task** record you should add **UserIds** with **TaskId** to the **UserTask** table in State equals **Active**. If the **UserTask** table and the **TaskState** table haven't implemented yet, and there aren't a partner which must make this, you should implemented their by yourself.







5th week:

Implement controllers with all needed actions, ViewModels, and Views. Look at existing SampleController, and do the same. The Create/Edit pages look similar, but Detail page needs to be as a read-only version. On **Tasks Mange Grid page** & on **Task Tracks Manage Grid page** you should implement **Create** buttons accordingly.

6th week:

Complete your presentation layer. add nice styles. If you will work with front-end partner, provide him all routes and data that he can get from them accordingly.

7th week:

Put all parts together, add all logic related you main role. Write unit-tests for you controllers, business logic and 2 integration tests.

8th week:

Test your area of responsibility very intensively and fix all bugs. After this week you should provide a demo with description of business logic of your part in English.