Lappeenrannan teknillinen yliopisto
School of Business and Management

Sofware Development Skills

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LEARNING DIARY, Software Development Skills: Full-Stack MODULE

LEARNING DIARY

15-30.9.2024

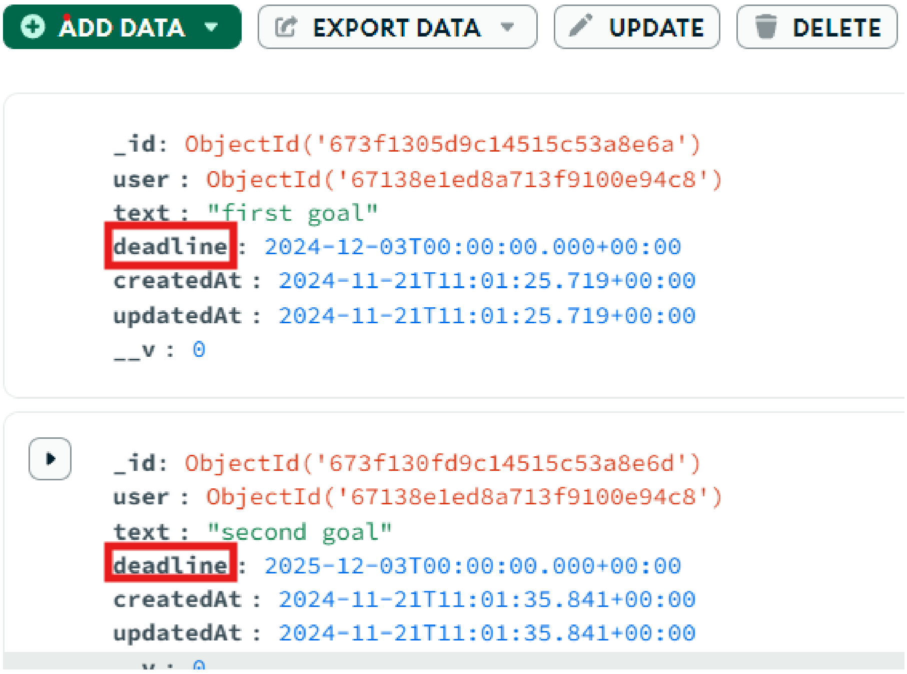
I setup the environment what the course details recommended (VS Code). Checked the additional videos and materials for the course.

1-15.10.2024

Checked the MERN-stack videos. Checked out the project in my local environment. Installed the recommended tools (Postman, MongoDB Compass). Based on the videos setup a free online MongoDB database, which one I can access from web, MongoDB Compass and from the application as well. I had some issues with the URL which one required to use from the application because the URL pattern was updated since the video was captured. Finally solved it and I was able to run locally the Goal application and also be able to test the backend APIs with Postman. Noticed the architecture seems very similar like the Asp.Net MVC has. Both solution has 3 well separated layers.

16.10.2024-05.11.2024

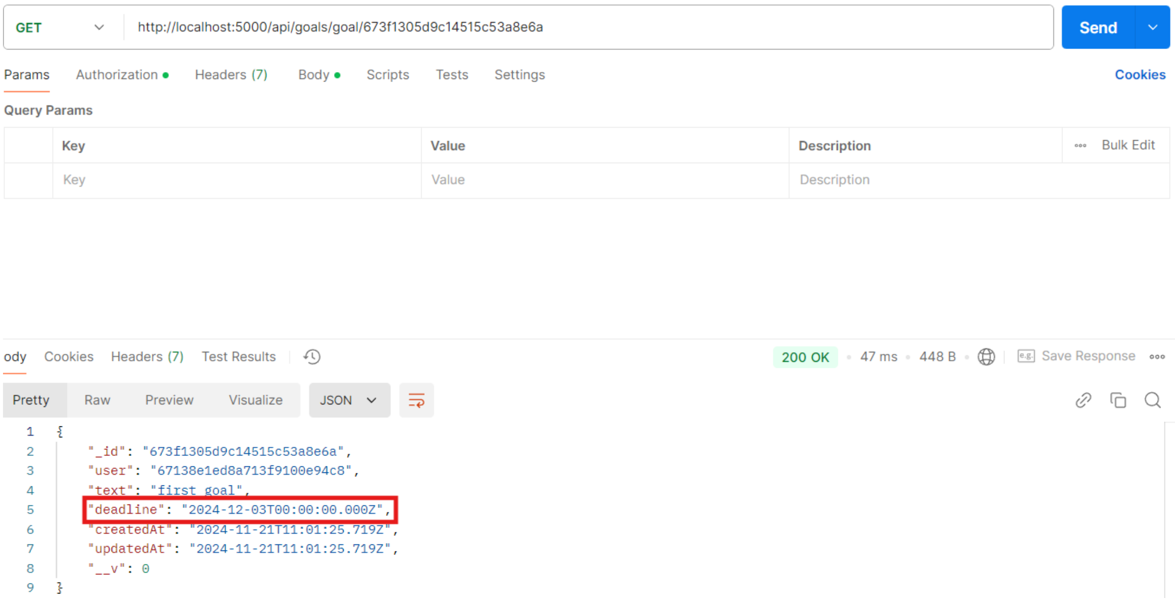
In order to get some experience and feelings how the application is actually working, extended the goal data model with a new field (deadline)



```
_id: ObjectId('673f1305d9c14515c53a8e6a')
user : ObjectId('67138e1ed8a713f9100e94c8')
text : "first goal"
deadline : 2024-12-03T00:00:00.000+00:00
createdAt : 2024-11-21T11:01:25.719+00:00
updatedAt : 2024-11-21T11:01:25.719+00:00
__v : 0
```

```
_id: ObjectId('673f130fd9c14515c53a8e6d')
user : ObjectId('67138e1ed8a713f9100e94c8')
text : "second goal"
deadline : 2025-12-03T00:00:00.000+00:00
createdAt : 2024-11-21T11:01:35.841+00:00
updatedAt : 2024-11-21T11:01:35.841+00:00
__v : 0
```

and extended with it the backend part:

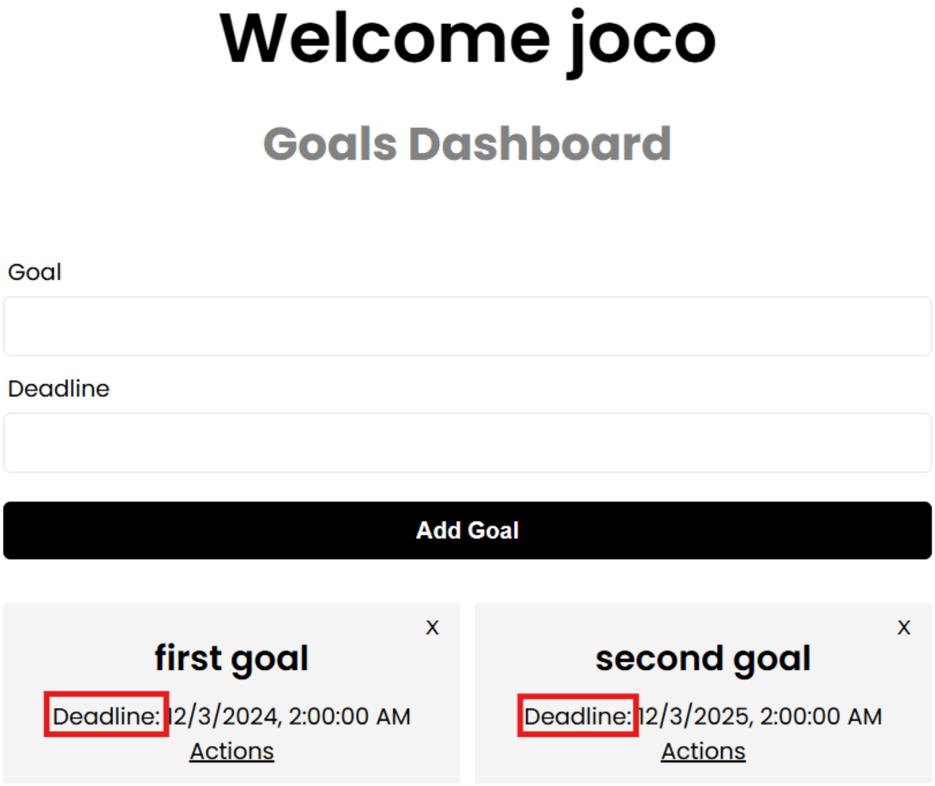


http://localhost:5000/api/goals/goal/673f1305d9c14515c53a8e6a

Key	Value	Description
Key	Value	Description

```
{
    "_id": "673f1305d9c14515c53a8e6a",
    "user": "67138e1ed8a713f9100e94c8",
    "text": "first goal",
    "deadline": "2024-12-03T00:00:00.000Z",
    "createdAt": "2024-11-21T11:01:25.719Z",
    "updatedAt": "2024-11-21T11:01:25.719Z",
    "__v": 0
}
```

and the frontend one as well:



Welcome joco

Goals Dashboard

Goal

Deadline

first goal

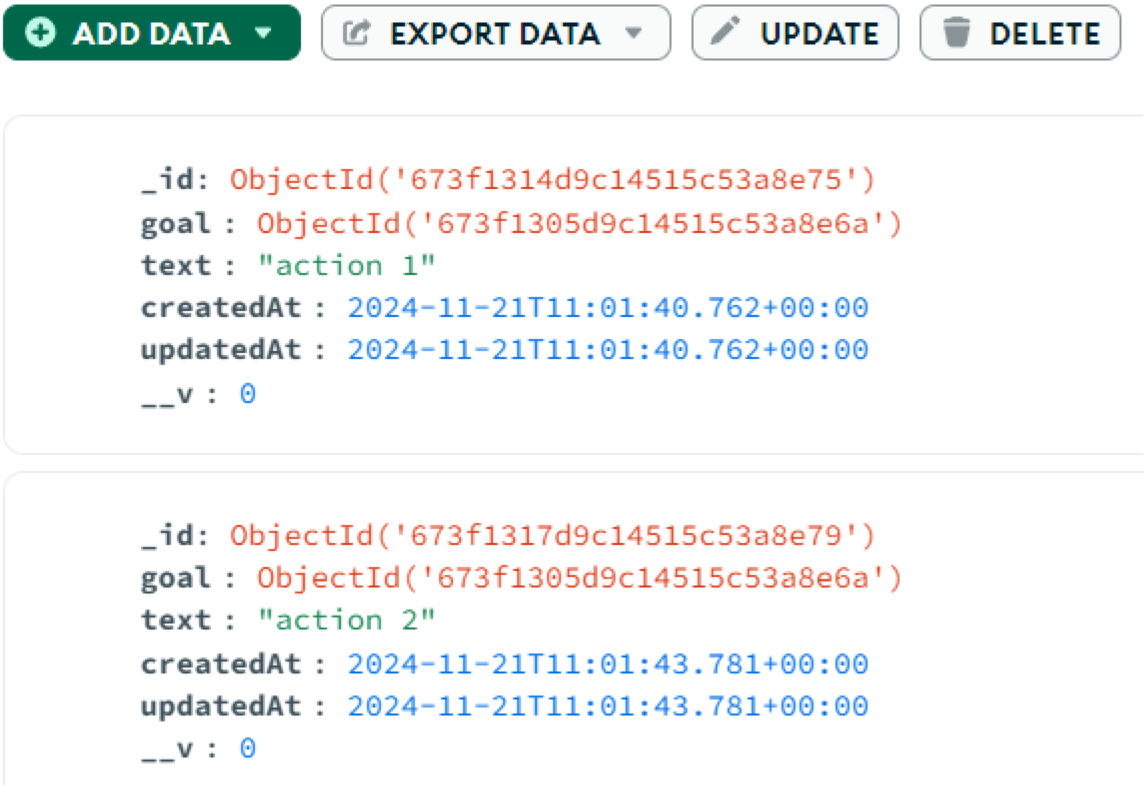
Deadline: 12/3/2024, 2:00:00 AM

second goal

Deadline: 12/3/2025, 2:00:00 AM

06.11.2024-10.11.2024

Added the Action data model to the database with a reference to the Goal model. Extended the backend with the necessary logic to be able to manage the new resource. Also extended the delete goal API with a solution which one will delete the Goals Actions before it will delete the goal itself.

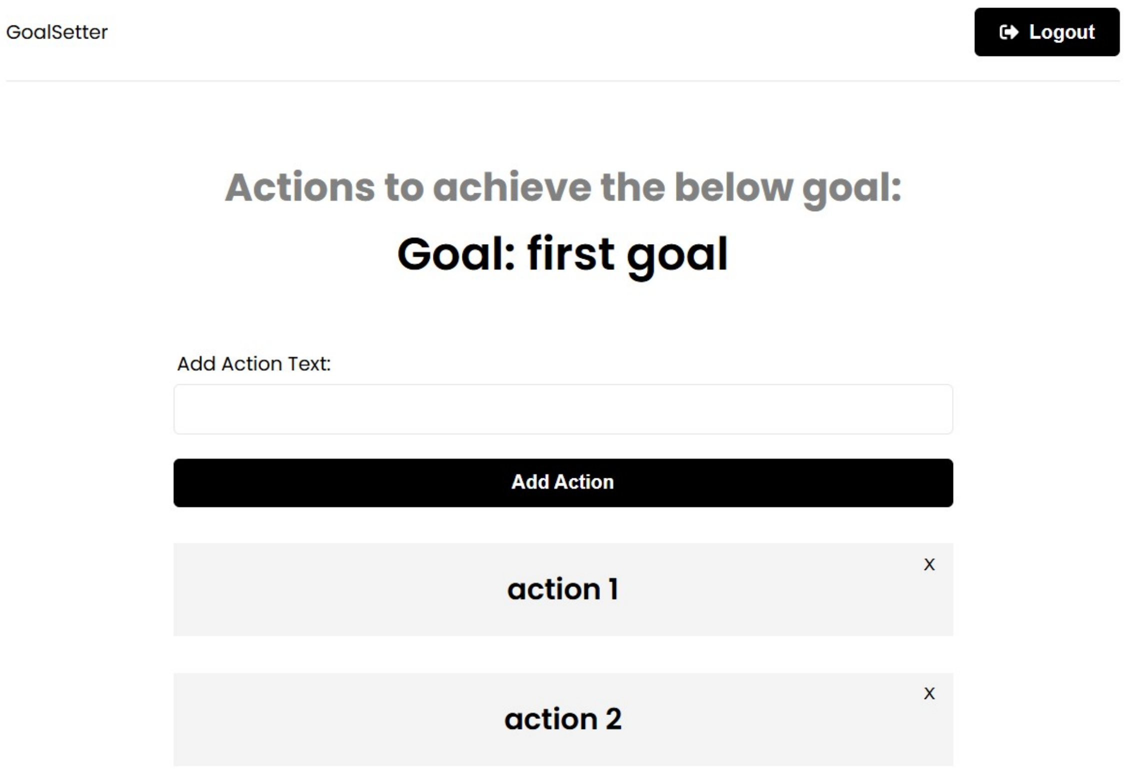


```
_id: ObjectId('673f1314d9c14515c53a8e75')
goal : ObjectId('673f1305d9c14515c53a8e6a')
text : "action 1"
createdAt : 2024-11-21T11:01:40.762+00:00
updatedAt : 2024-11-21T11:01:40.762+00:00
__v : 0
```

```
_id: ObjectId('673f1317d9c14515c53a8e79')
goal : ObjectId('673f1305d9c14515c53a8e6a')
text : "action 2"
createdAt : 2024-11-21T11:01:43.781+00:00
updatedAt : 2024-11-21T11:01:43.781+00:00
__v : 0
```

11.11.2024-21.11.2024

I worked on the fronted side for the Actions page, which one is available from Goal Dashboard with the Actions link. This page is able to manage the Actions for a goal. Tested the solution with Chrome and Edge browsers.



Actions to achieve the below goal:

Goal: first goal

Add Action Text:

action 1

action 2