ASP.NET MVC Project

1. Project Scope

You need to develop complete Task Management solution, based on the one we worked at during ASP.NET MVC course classes. The user should be able to add, update and delete tasks assigned to projects. You should use the same entities relationship as we defined on classes, therefore have:

- Task (and weak entity TaskComment)
- Project
- User
- Customer

2. Minimum required technologies

In order to have complete and successful project, you need to have implementation and usage of at least the following technologies:

- Microsoft ASP.NET MVC Framework
- HTML/CSS
- JavaScript/jQuery
- Implementation of Repository pattern
- jQuery Ajax
- Microsoft SQL Server Database

Note: If you have any additional technology, besides required ones above and in case the additional technology is used on the right way, it will bring you bonus points.

3. Project Features

High-level list of features. You have freedom to implement them on the way it's logical to you, but having the minimum rules specified below. Wherever you see **bonus**, it will bring you additional bonus points if you complete it.

3.1. User Authentication

User can log in on the system with username and password.

3.2. User Registration

User can register on the system. But should be then activated by Administrator.

3.3. User Reset Password

User can reset password by providing username. Password reset link should be sent over email.

3.4. Dashboard with Listing Projects

On dashboard, you should list all the projects.

Bonus: If more than 20 projects, please provide pagination feature.

3.5. Listing tasks for selected project

Tasks should be grouped in 4 vertical columns:

- To Do
- In Progress
- In Testing (QA)
- Done

3.6. I can change task status

- 3.6.1. Rules:
 - 3.6.1.1. Task from <u>To Do</u> can go to **In Progress** or **In Testing (QA)** but not to **Done**
 - 3.6.1.2. Task from In Progress can go to To Do, In Testing (QA) or Done
 - 3.6.1.3. Task from In Testing (QA) can go in **To Do** or **Done**, but not to **In Progress**
 - 3.6.1.4. Task from Done can't go back to any other status

Bonus: If implemented draggable and droppable way of updating status of tasks.

Example: If task is in **To Do** column, with drag-and-drop with mouse I can move it to In Progress column.

3.7. Add/Update/Delete Task

Bonus: If implemented using jQuery Ajax.

3.8. Add/Update/Delete Project

Bonus: If implemented using jQuery Ajax

- 3.9. There should be two roles in the system: Administrator and User
 - 3.9.1. Administrator can add new users in the system
 - 3.9.2. Administrator can add new projects in the system
 - 3.9.3. Administrator can add new customers in the system
 - 3.9.4. Administrator can activate newly registered users
 - 3.9.5. User and Administrator can add new tasks on project
- 3.10. Show basic report of total number of tasks per user where you should list all users and total number of tasks assigned to that user.

Bonus: Any additional report of your choice.