

# OnnoRokom Software Ltd.

Recruitment - Asst. Software Engineer

## Project Proposal

### Project Title:

Student - Teacher Question & Answer Platform.

### Description:

Develop an Application/Website where students and teachers of various institutes can visit and log in to their respective accounts. Students can ask questions on their study topics. Those asked questions can be answered by teachers.

[This is a kind of <https://stackoverflow.com/> project. You may follow this as an example.]

- When students Log In to their accounts, in the student dashboard they will see the most recent questions that students ask.
- By clicking on a question they can see the question and answers of that specific question.
- Students should have another tab where he/she can see his/her questions and responses from the teacher.
- In the Teacher dashboard, the teacher can also see the latest questions that students throw, and from this question pool, the teacher can choose a question and make an answer.
- The teacher should have another tab where he/she can see his/her responded question.

### Requirements:

- User Registration and Authentication
- Users should be able to register for an account with their email address and password.
- Users should be able to log in with their registered email and password.
- If a user registers him/herself as a student he/she needs to provide their Name, Institute Name, and Institute ID card Number.
- For simplicity, we are avoiding user verification operations here.

**Project Submission Deadline: February 10, 2024**

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- Teachers can make a reply on any question but Students can reply only their own questions.
- The questioner can delete his/her question but if any teacher answers then the student will not be able to delete that question.
- User authentication should be implemented to ensure that only authenticated users can access certain parts of the website.
- Users should be able to logout from their accounts.
- User authentication should be implemented to ensure that only authenticated users can access certain parts of the website.

### Additional Requirements:

- It will be good if you can introduce a new role like Moderator. Who can login to your application and moderate each question by checking whether the question is related to study topics or not. If the question is irrelevant then remove that question from the platform.

### Technologies:

You can use the following technologies to build this platform:

- Language: C#
- Framework: ASP .NET Core (version 6 or above)
- Database: MSSQL(recommended), MySQL
- ORM: Entity Framework, NHibernate.
- Frontend JS Library: JQuery, Ajax
- Log4Net/Serilog (Optional)
- NLayers architecture ( minimum 3 as Presentation, Services, Data Access Layer )

### Instructions:

- Maintain Git Hub for version control.
- **Make a Public Repository in Git Hub and share your repository link with us by emailing it to [aminul@onnorokom.com](mailto:aminul@onnorokom.com) before starting the project.**
- Need to commit and push regularly from the very beginning of project implementation.

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- You must give proper comments on each commit and push that describe what you have done on each commit.
- Make proper documentation on the README file on your GitHub repository.
- It is good to provide a graphical representation of your database schema using any online diagram designer tools. Like: <https://app.diagrams.net/>
- You must mention all of your project credentials in the GitHub README file.  
Like: Admin / Super Admin Password etc.

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