**REPORT NO.1**

**INTRODUCTION**

**Team 11**

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**1. Project Information**

* **Project name: Q&A Platform for Educators**
* **Project Code: QAPT11**
* **Product Type: Web Application**
* **Start Date: May 11th, 2015**
* **End Date: August 11th, 2015**

**2. Introduction:**

This project is a Q&A Web application where students and teachers can exchange information and other educational materials. Students can learn more things about the subject from posts of lectures or find the answers from other people.

We suggest using Java on server-side and JavaScript combined with Node.Js on client-side to create a real time web following the requirements:

* Real time notification
* Real time in discussion

**3. Current Situation**

There is a lot of popular Q&A websites like Quora, Yahoo! Answers, Stack Overflow… People can post threads or answer the questions pretty easy using its account or connect to another account. These sites also have rating system for questions and responses in order to rate users as well.

Quora is rated as the best Q&A websites where you can find the answer for your question from real doctors, lawyers, chefs, engineers and more.

Yahoo! Answer is such as a forum Q&A that everyone can join a thread and answer their question. The response will be awarded 10 points if the rate is highly recommended or 2 points if the rate is lower.

Stack Overflow is a Q&A websites for IT people who are the professional and enthusiasm people. They can post a thread and wait their response from a lot of experienced people.

**4. Problem Definition**

Most of Q&A problems are about the rewards of their good contributions. Somebody complained they should deserve better.

About Quora, the problem lately happened is about Quora’s misogyny, it’s known as woman’s answers are not recommended. Their answers are instant down voted in the questions and deserve penalties for that.

Yahoo! Answer is where people can talk freely. Their answers to the questions sometimes are not recommended about the question but no one operates those spams.

Stack Overflow is told that the reputation should be deleted. Most of users do not need it these days.

**5. Proposed Solution**

* Change the reward and contribution system to make users know that it is important and they are deserved to get it.
* Make users feel the website is a good place to share anything, what they think, experience or learn from classes.
* Support many teachers from other classes that know about the questions answer if the owner of question do not agree with the previous ones.

**5.1 Feature functions**

* Users could have more authorities or monthly rewards from their contribution.
* Support many classes for any subjects that users want.
* Teachers can invite others to join threads that they cannot answer the questions.

**5.2 Advantages and disadvantages**

* Advantage:
* Users are more pleased to what they did and know what they are deserved.
* Students can imagine this website is the real school with real classes, teachers and friends. They will feel free to ask anything.
* Users will have their right answers faster than they do on their own. That leads to learn better in real classes.
* System has a variety of categories that is better than Stack Overflow but it is not a mess such as Quora or Yahoo! Answers.
* Disadvantage:
* System do not support the users suggest teacher to join threads to answer the questions.
* Cost time waiting to approve to join a class.

**6. Functional Requirements**

Function requirements of the system are listed as below:

**For Teachers:**

* Create classes.
* Create a post. Post types include: articles, questions, answer, and upload material.
* Invite other teachers to answer questions in the classes.
* Invite students to join the discussion in a class.
* Track students’ questions to see which topics a student is less known about.
* Support real time notification.
* Support real time in discussion.

**For Students:**

* Create a post: articles, questions, answer.
* Manage learning materials: allowing students to create folders to store different kinds of studying documents.
* Support real time notification.
* Support real time in discussion.
* Follow a teacher.
* Send a request to join in a teacher’s class.
* Support an easy way to add mathematic equation, code highlighting besides other normal text formatting for editor.
* Suggest related posts.

**7. Role and Responsibility**

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