

# Background

## Description

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### Explain the business objectives for creating a solution:

Firstly, the PeerWise website does not have any commercial purpose. It is a website developed by the University of Auckland for the convenience of students.

Secondly, PeerWise is designed as a student questioning system for helping students to obtain a better understanding regarding their courses. Student can ask questions on PeerWise. All student would be invited into a study group and they can interact with other students in this group. Thus, a good atmosphere of study has been created.

Compared with the traditional LMS which schools used for managing daily study schedules. PeerWise provides a more professional platform which specializes in quiz and answer sessions. The university encourages their students to use it because it can be a very effective supplementary study tool. Students also like to use it because they can ask the question they find confusing and create question by their own.

There are two major problems for PeerWise, the design of the user interface is outdated and it is hard for users to follow the process. Meanwhile, the functions do not satisfy all users, users will feel inconvenient when they use PeerWise. Hence, we are going to help PeerWise identify where they should make improvements and changes. And provide a good solution.

### Explain the importance of the system:

This system is very important for both Instructors and students. For **Instructors**, it is convenient to teach and set up quizzes for students.1. This website allows Instructors to ask questions to test student learning, and then the Instructors can see how students are answering individual questions in real-time, and can identify and address common misunderstandings in a timely fashion. Analysing student comments can reveal further insight into the student perception of topics within the course.

Compared with the traditional model of test and explanation in class, this website greatly reduces the time of offline test and explanation.2.Compared with the traditional classroom test and explanation mode, this website greatly reduces the time for offline classroom examinations and explanations.

For **students**, they are the direct beneficiaries of this site. PeerWise provides a number of learning opportunities to students. Some classes do not fully understand the knowledge. You can learn again by answering the questions raised by the teacher. Excellent for some introverted students. 2. Students can also create their own questions and share their answers with other students. From the perspective of students, the answers may sometimes be more kind. Those students who do not understand the teacher's explanation correctly may be a very good solution. 3. Students can discuss in comments. Even if the questions and answers created by students have some flaws, other students can point out and discuss in comments. The scoring function can filter out the excellent discussion content and provide more valuable information to the students.

And this is the benefits to student on PeerWise official:

‘Designing questions: Generating a question requires students to think carefully about the topics of the course and how they relate to the learning outcomes. Writing questions focuses attention on the learning outcomes and makes teaching and learning goals more apparent to students.

Choosing distractors: The act of creating plausible distracters (multiple-choice alternatives) requires students to consider misconceptions, ambiguity and possible interpretations of concepts.

Writing explanations: Explanations require students to express their understanding of a topic with as much clarity as possible. This acts to develop their written communication skills and deepen their understanding.

Answering questions: Answering questions in a drill and practice fashion reinforces learning, and incorporates elements of self-assessment. Students are shown how others have answered the same questions, allowing them to gauge how well they are coping in the course.

Evaluating quality: Evaluating existing questions incorporates higher-order cognitive skills, requiring a student to consider not only the content, but what makes a particular question more effective than other questions.’ — Retrieved from :

<https://peerwise.cs.auckland.ac.nz/docs/instructors/>