

EPL425- INTERNET TECHNOLOGIES

GROUP PROJECT-INTERACT

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D.1.2: Project Brief

Goal:

Create a web-based application that will be used by students and professors. This application will give the ability to teachers to interact easier and efficiently with students during the lecture and vice versa.

Approach:

We will design a website according to the mock-up, following below. First of all, every teacher using his/her username and password will connect to the website, to upload/edit/delete questions with possible answers for every course that he/she teaches. Also, every question must have a limited time to be answered, that it will be assigned by the teacher.

During the lecture, students will log in using the course code and select the lecture of the day so they will have the opportunity to answer the questions. After the time for each question passes, students will not be able to answer anymore, and real time statistics will appear on the screen. The teacher will decide if he/she wants to save the statistics or not.

D.1.3: Technology Assessment

Technologies:

Apache HTTP Server Web serverMySQL (or REST API) Database

• PHP (PHP Hypertext Preprocessor) dynamic programming language for websites

• JavaScript scripting programming language

• HTML (HyperText Markup Language) Markup Language for web development

• CSS (Cascading Style Sheets) Language for web design

• Bootstrap framework open source tools (HTML, CSS JavaScript)

Database tables:

Teacher

<u>ID</u>	Username	Password	Name
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Student

<u>D</u>	Name	Department
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Course (Foreign key: Teacher's username)

Key Code Title Teacher	Key	Code	Title	Teacher's ID
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Lecture (Foreign key: Course's key)

<u>Code</u>	Title	Course's key
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Question (Foreign key: Lecture's code + Teacher's username)

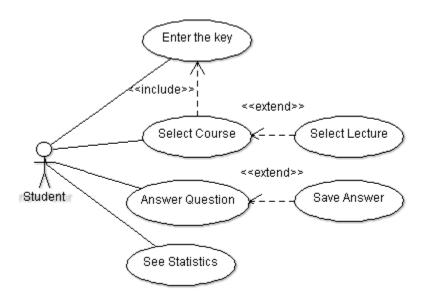
<u>Code</u>	Question	AnswerNo	Lecture's code	Туре	Time	Statistics	Teacher's ID
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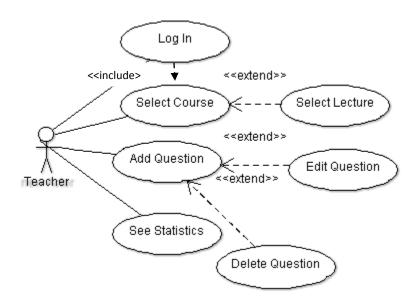
Possible Answer

TeacherID QuestionN	o AnswerNo	Description	Correct (T/F)
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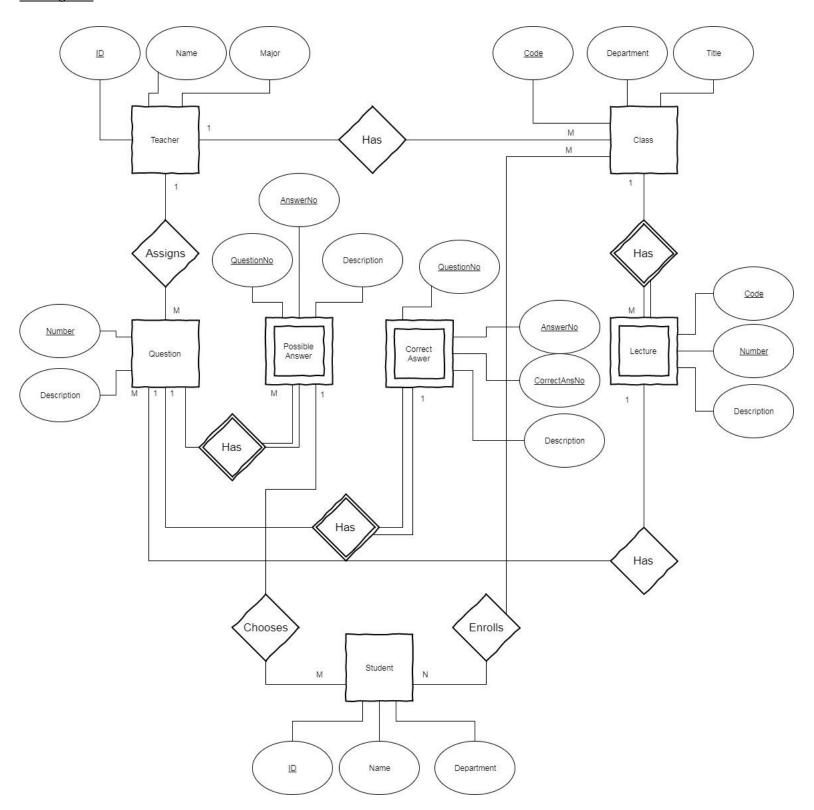
StudentID

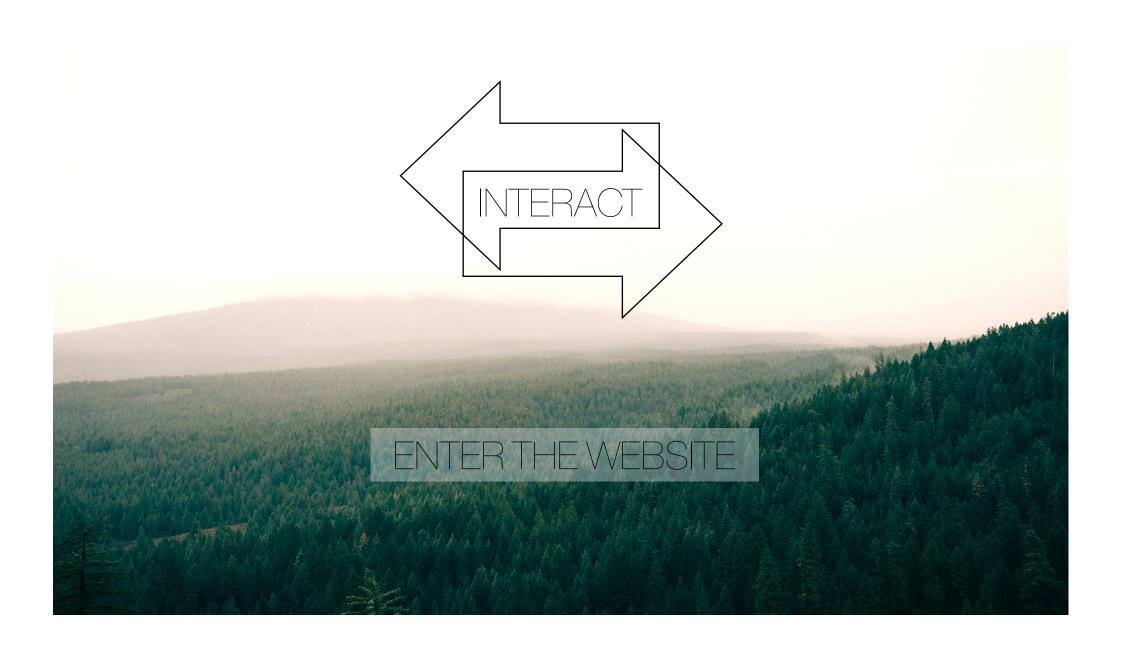
Use Cases:



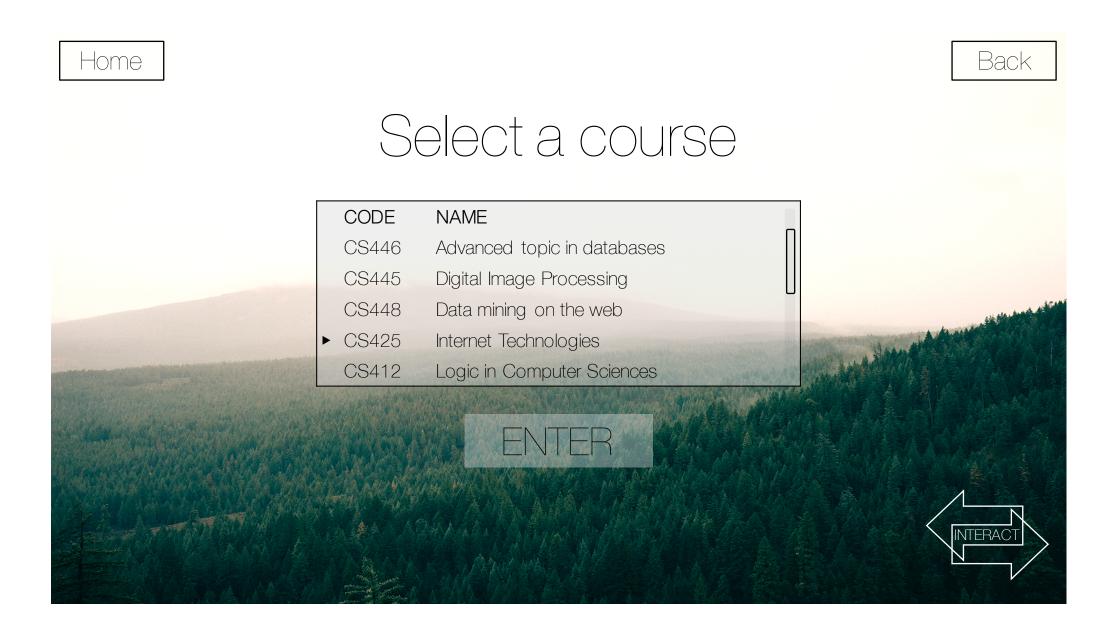


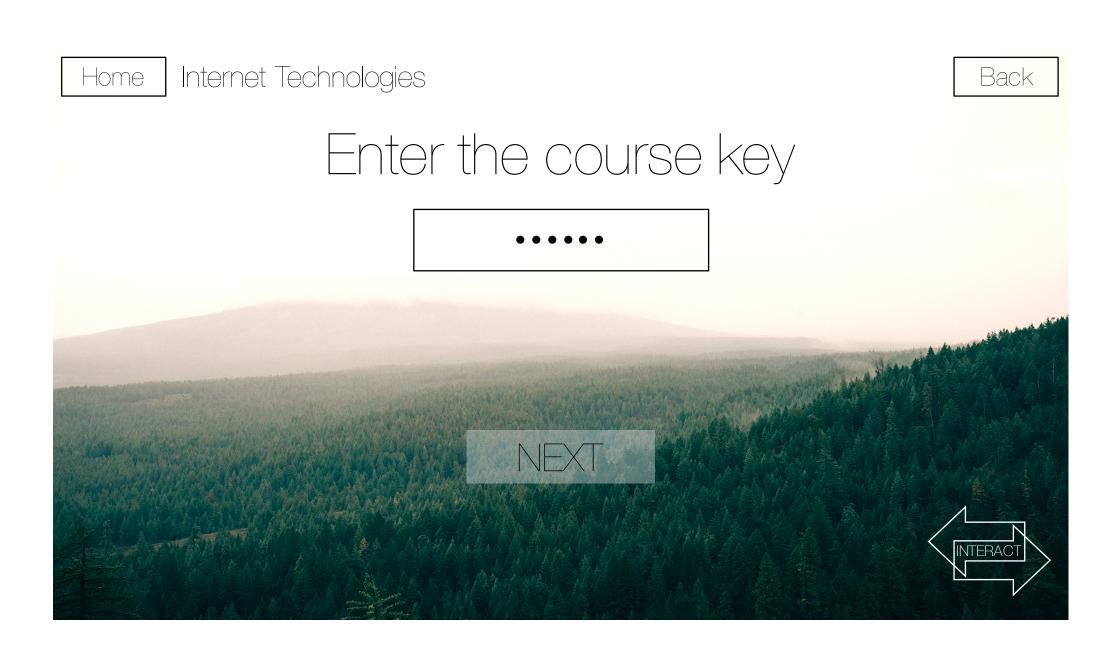
ER-Diagram:











Internet Technologies Home Back Select a lecture CODE NAME Internet Introduction Internet Architecture World-Wide Web Client-Server Web Web Infrastructure



Home Internet Technologies ► Client-Server Web ► Question 1

Exit

Which tier is necessary for the operation of a Web site?



SAVE ANSWER

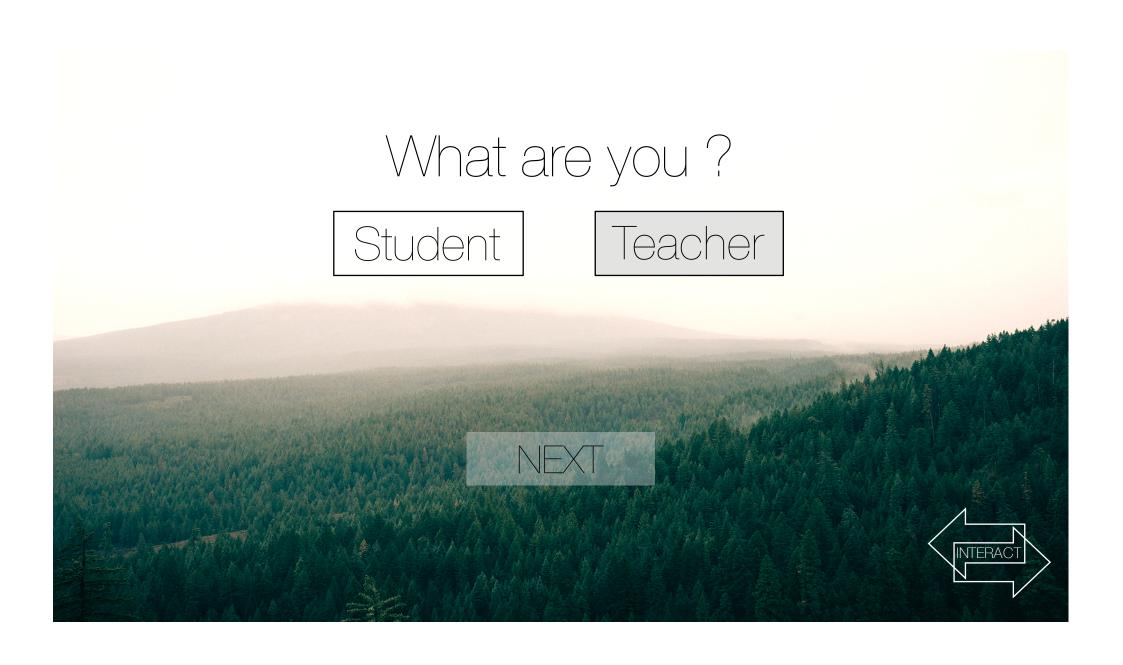
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Internet Technologies - Client-Server Web - Question 1 Exit Home Which tier is necessary for the operation of a Web site? CODE **ANSWER STATISTICS** R1 Application Tier 25% Persistence Tier R2 5% R3 Presentation Tier 65% R4 Presentation and Application Tiers 5% Persistence and Presentation Tiers 0% R5



Internet Technologies > Client-Server Web > Question 2 Exit Home How many tiers does a Web site has? Type your answer

Internet Technologies > Client-Server Web > Question 2 Exit Home How many tiers does a Web site has? Your answer Correct answer 3 Success rate: 90%

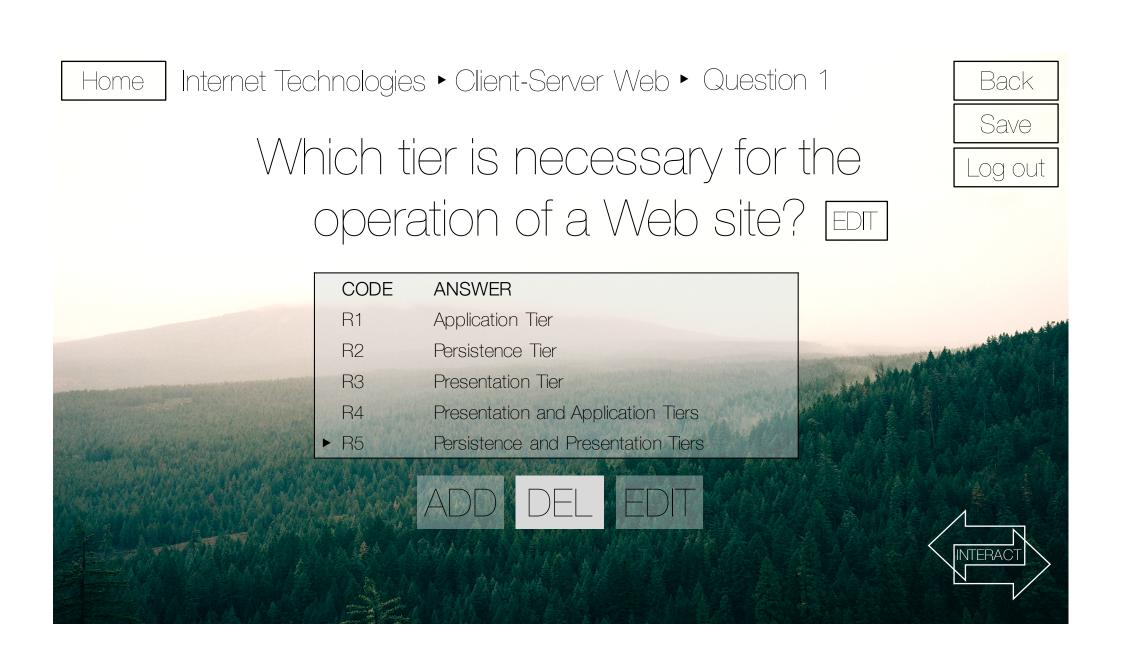




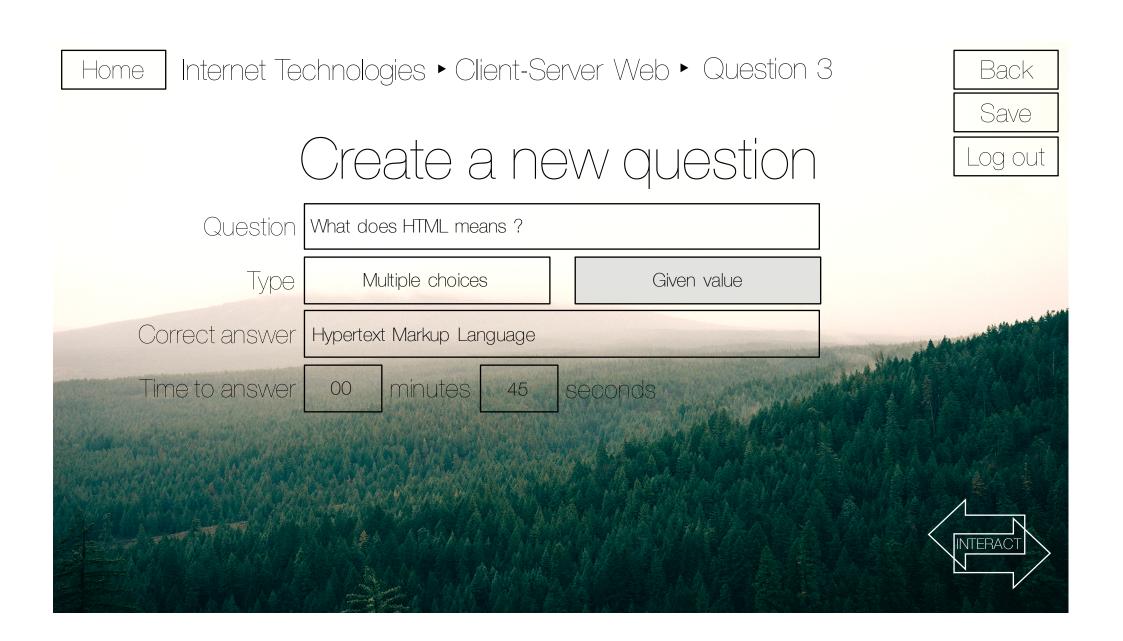
Log out Home Select a course CODE NAME CS324 Communications and Networks Internet Technologies ► CS425

Internet Technologies Home Back Log out Select a lecture CODE NAME Internet Introduction Internet Architecture World-Wide Web Client-Server Web Web Infrastructure INTERAC

Internet Technologies - Client-Server Web Home Back _og out Edit the set of questions CODE **QUESTION** Q1 Which tier is necessary for the operation of a Web site? How many tiers does a Web site has? Q2



Internet Technologies - Client-Server Web Home Back _og out Edit the set of questions CODE **QUESTION** Q1 Which tier is necessary for the operation of a Web site? How many tiers does a Web site has? Q2



Internet Technologies Home Back Log out Select the lecture CODE NAME Internet Introduction Internet Architecture World-Wide Web Client-Server Web Web Infrastructure

Home Internet Technologies > Client-Server Web > Question 1

Exit

Which tier is necessary for the operation of a Web site?

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	CODE	ANSWER
	R1	Application Tier
	R2	Persistence Tier
	R3	Presentation Tier
	R4	Presentation and Application Tiers
	R5	Persistence and Presentation Tiers
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