

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.

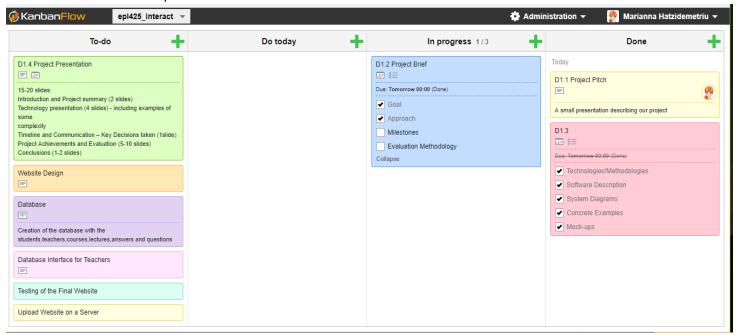
During the lecture, students will log in using the course code and select the lecture of the day so they will have the opportunity to answer the questions. After the time for each question passes, students will not be able to answer anymore, and real time statistics will appear on the screen. The teacher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

Milestones

We make a simple project planning with the use of KanbanFlow. The link of our project time plan is:

https://kanbanflow.com/board/40bc9a63572a8895d6aa2c5dc1045181

and this is the our current plan:



Technology Evaluation

At the end of implementing our project, we need to have some features in mind in order to evaluate our website. This features are the following:

- 1. Usability easy to interact, navigate, use, remember the website
- 2. Cost of the system built
- 3. Time spent to implement the system
- 4. Reliability and support
- 5. Flexibility
- 6. User Interface the design of the website
- 7. Sharing and Communication communication between client-server
- 8. Security and Privacy login to the system
- 9. Accuracy of website, does it meet the goals and objectives needed? Is it well written and organized?
- 10. Authority, can the authors be identified?
- 11. Accessibility

D.1.3: Technology Assessment

Technologies:

- 1. Apache HTTP Server Web server
- 2. MySQL (or REST API) Database
- 3. PHP (PHP Hypertext Preprocessor) dynamic programming language for websites
- 4. JavaScript scripting programming language
- 5. HTML (HyperText Markup Language) Markup Language for web development
- 6. CSS (Cascading Style Sheets) Language for web design
- 7. Bootstrap framework open source tools (HTML, CSS JavaScript)

Database tables:

Teacher

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

ID Name Department

Course (Foreign key: Teacher's username)

Lecture (Foreign key: Course's key)

<u>Code</u>	Title	Course's key
		,

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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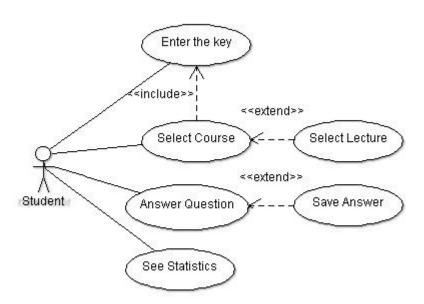
Possible Answer

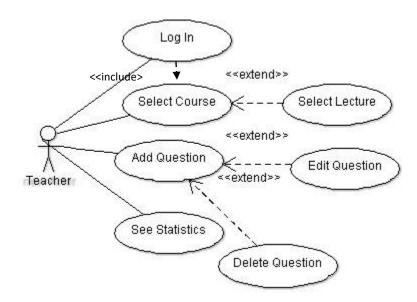
TeacherID QuestionNo	AnswerNo	Description	Correct (T/F)	
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Enroll

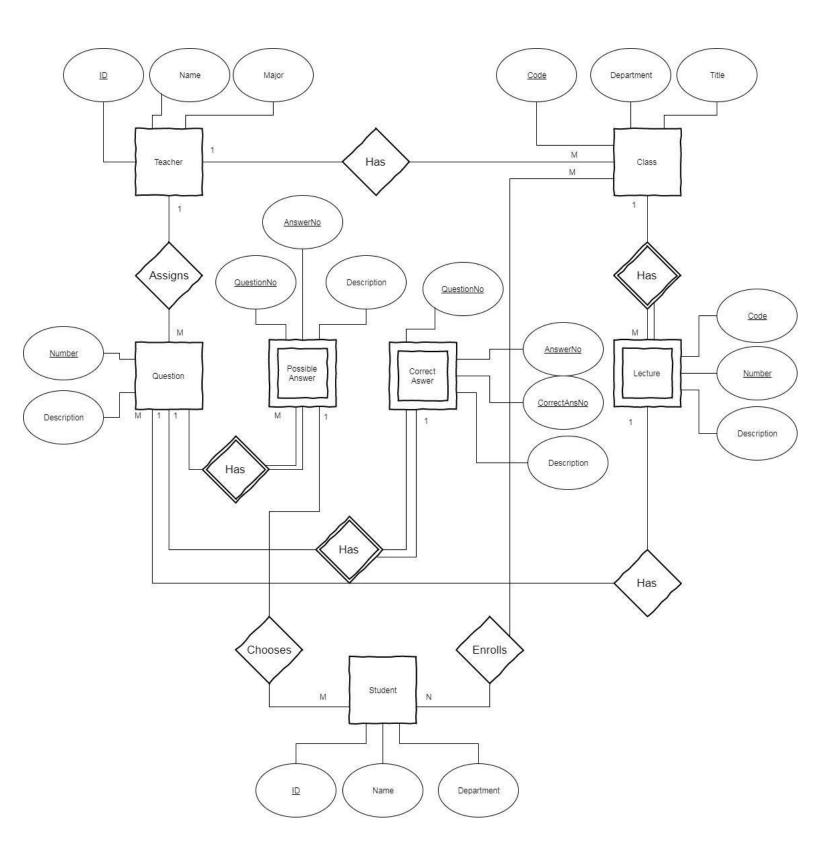
<u>KeyCourse</u>	<u>StudentID</u>
<u>KeyCourse</u>	StudentiD

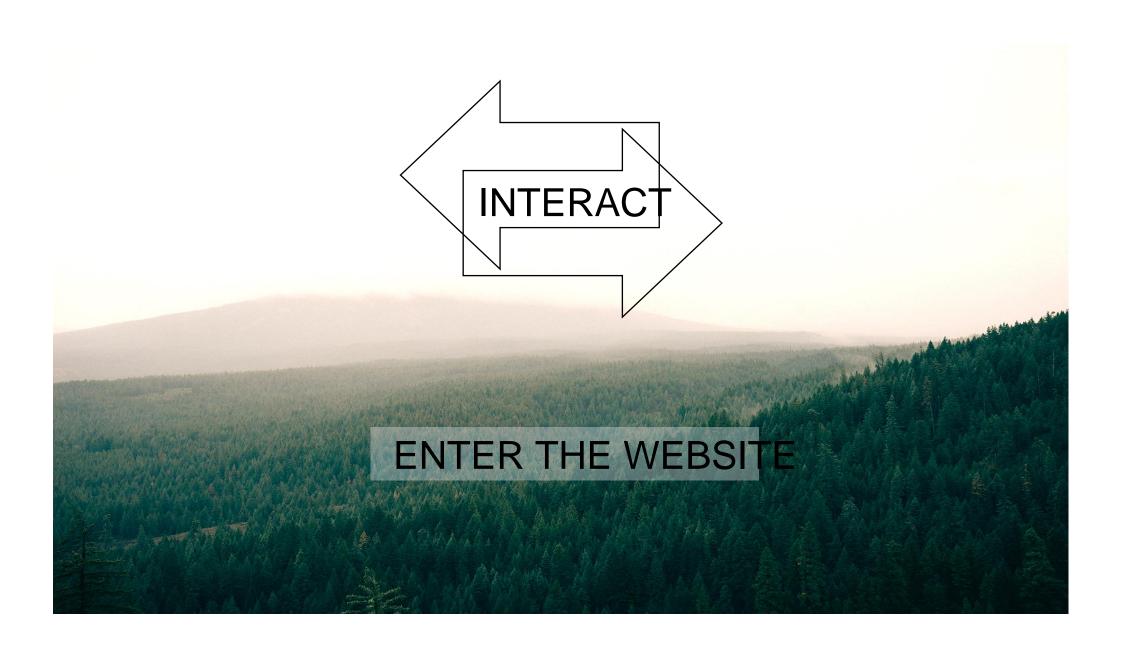
Use Cases:

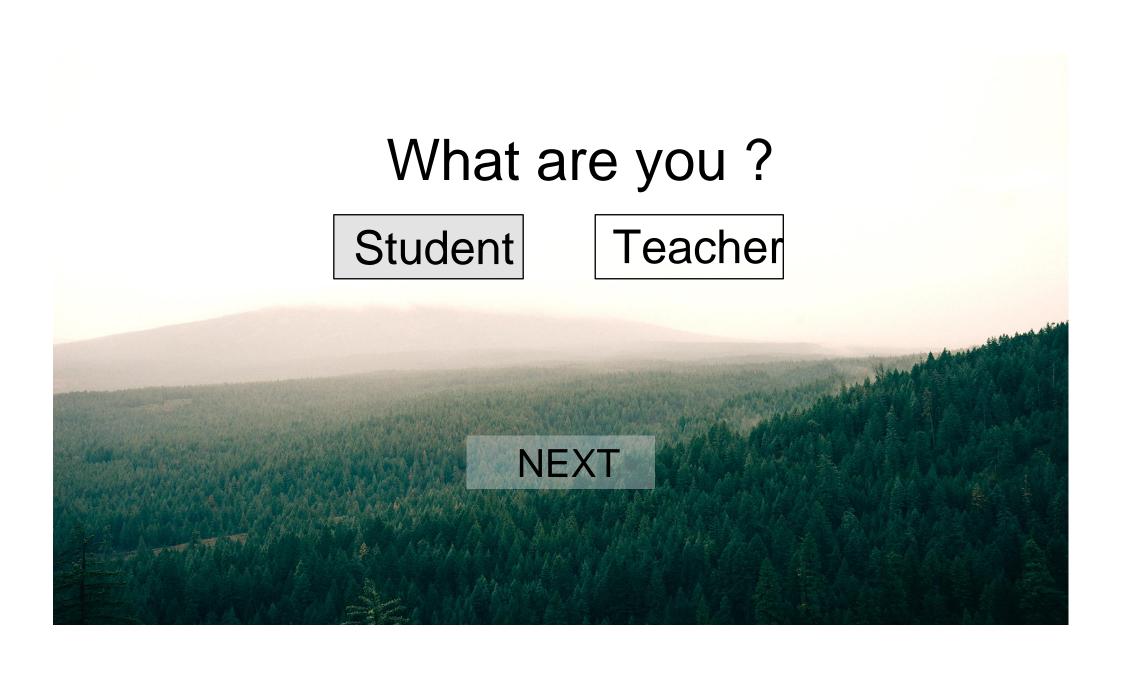




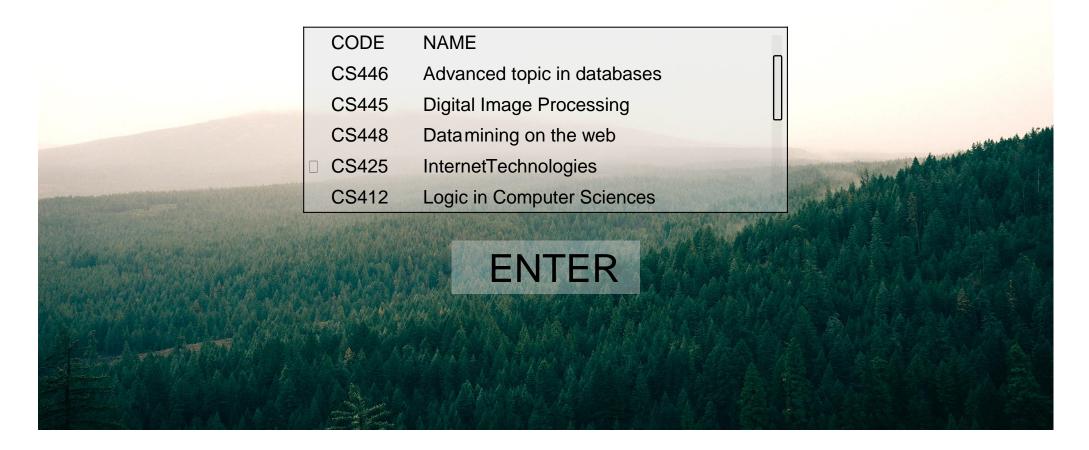
ER-Diagram:







Select a course

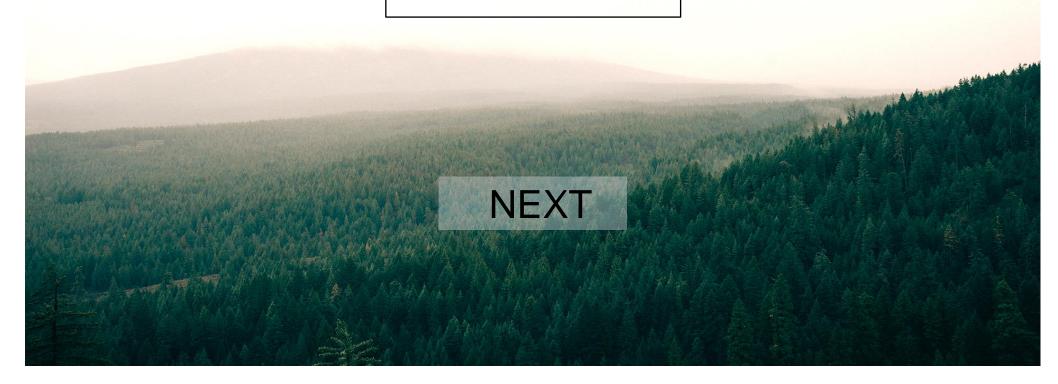


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Enter the course key

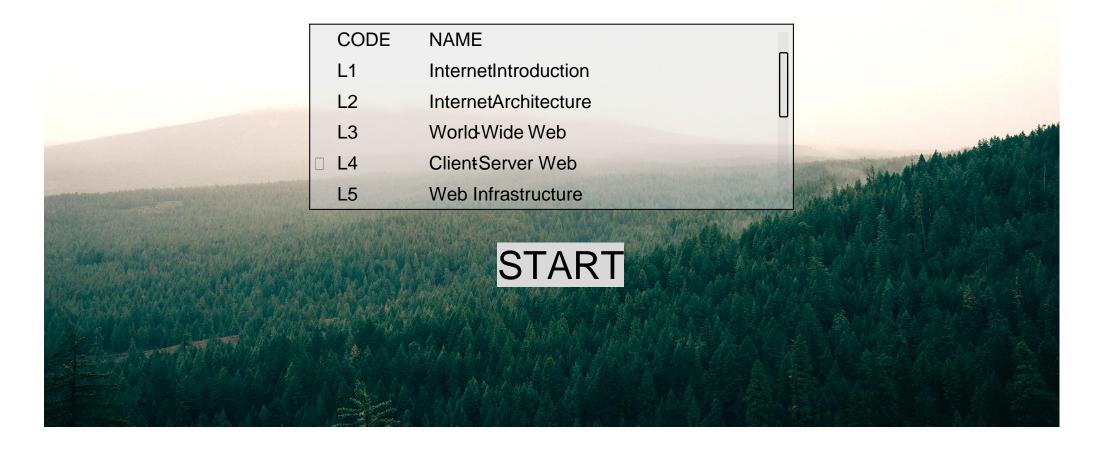
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Select a lecture



Internet Technologie Client Server Web

Exit

Wait for next question



Internet TechnologiesClientServer Web Question 1

Exit

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



SAVE ANSWER

00:24

Internet TechnologiesClientServer Web Question 1

Exit

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

	CODE	ANSWER	STATISTICS	
	R1	Application Tier	25%	The state of the s
	R2	Persistence Tier	5%	
	R3	Presentation Tier	65%	
	R4	Presentationand Application Tiers	5%	
LANGE STATE	R5	Persistence and Presentation Tiers	0%	香料,发展发
		NEXT		

Internet Technologie Client Server Web

Exit

Wait for next question



Internet TechnologiesClientServer Web Question 2

Exit

How many tiers does a Web site has?

Type your answer

3

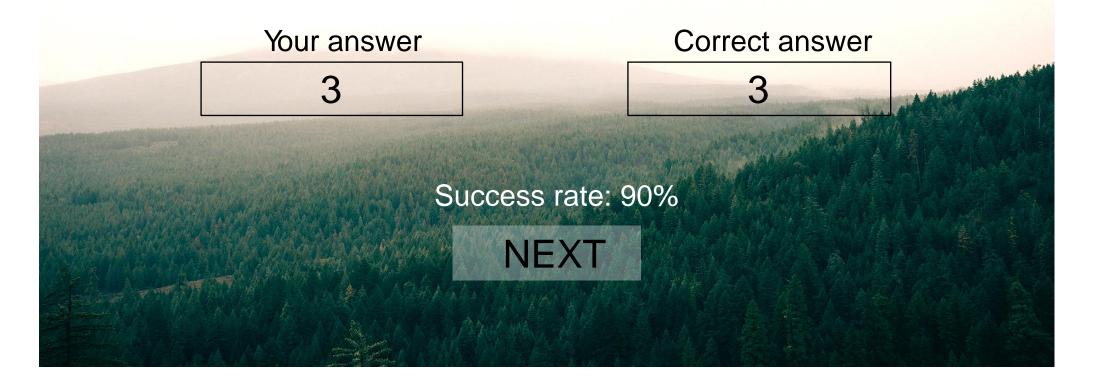
SAVE ANSWER

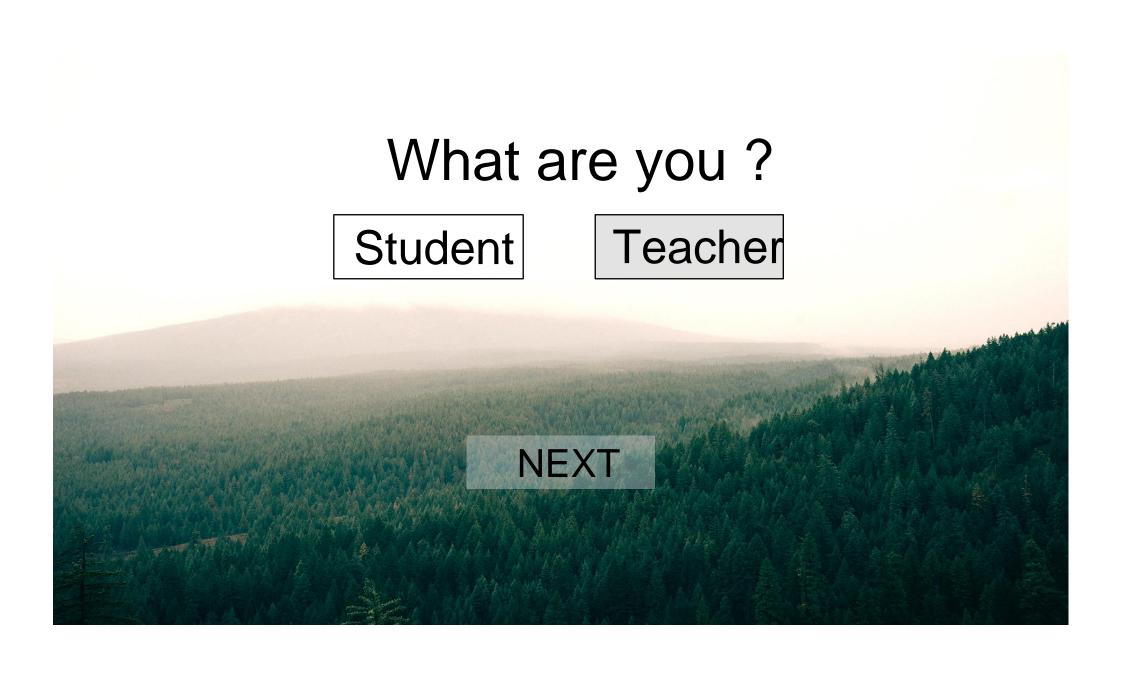
00:24

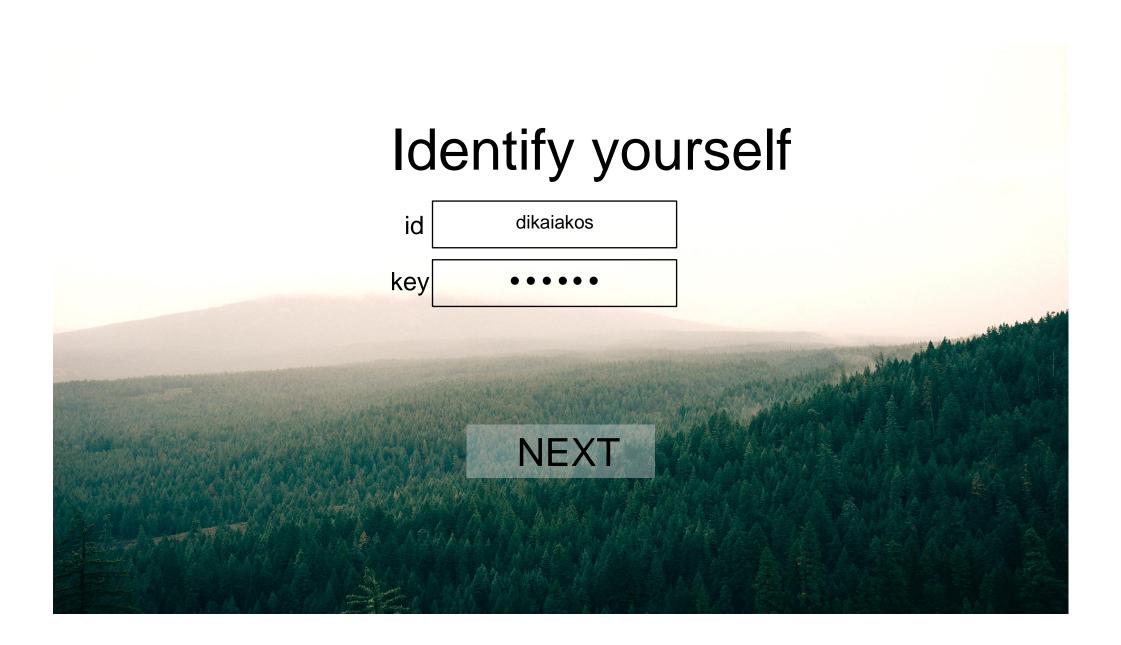
Internet TechnologiesClientServer Web Question 2

Exit

How manytiers does a Web site has?

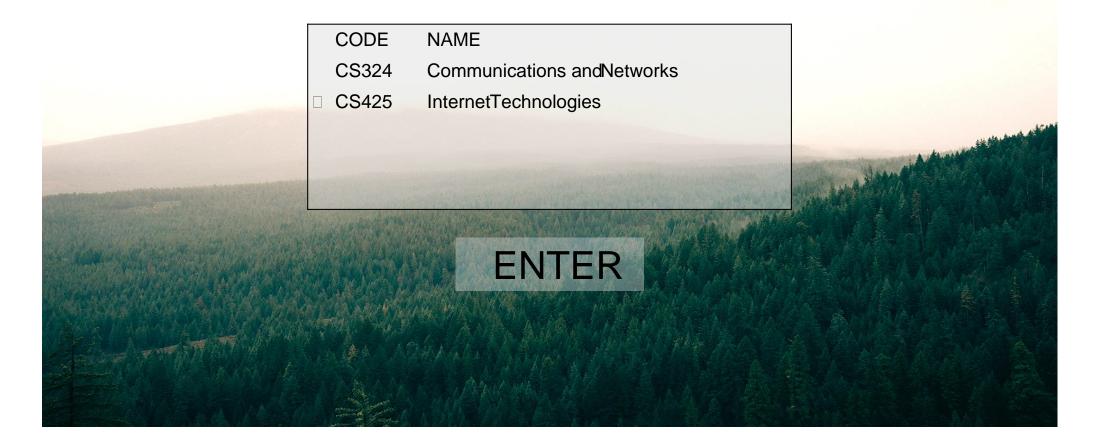






Home Log out

Select a course

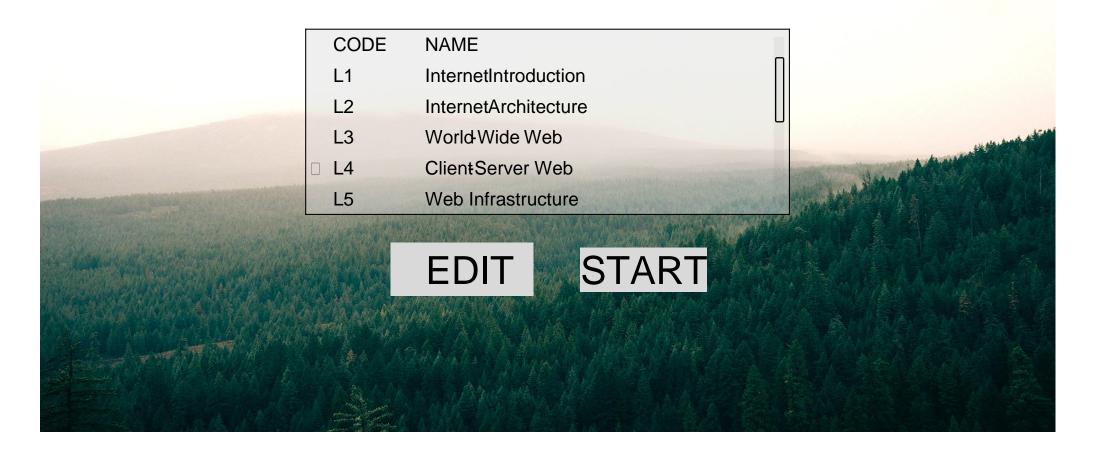


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Log out

Select a lecture



Internet TechnologiesClientServer Web

Back

Log out

Editthe set of questions



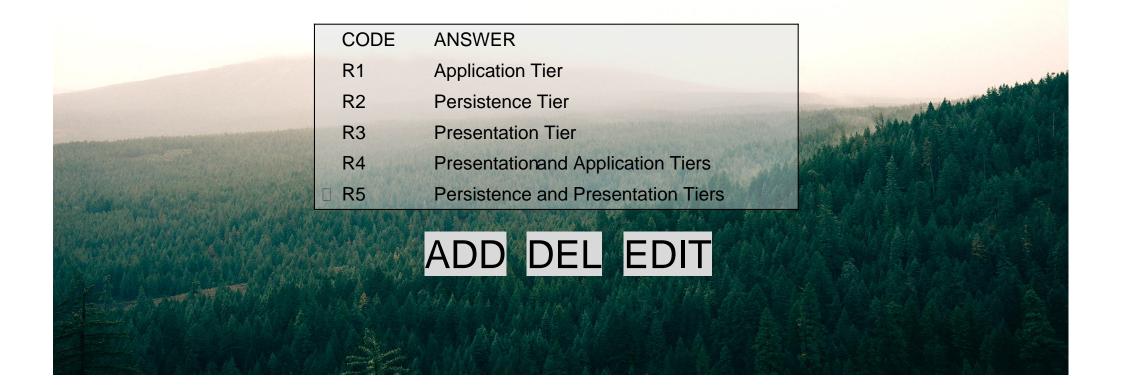
Internet TechnologiesClientServer Web Question 1

Back

Save

Which tier is necessary for the operation of a Web site

Log out



Internet TechnologiesClientServer Web

Back

Log out

Editthe set of questions



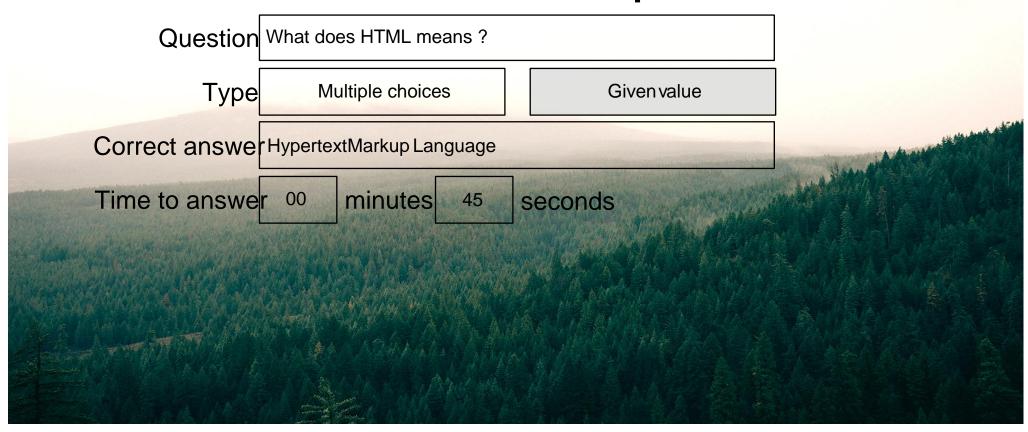
Internet TechnologiesClientServer Web Question 3

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Save

Create a new question

Log out

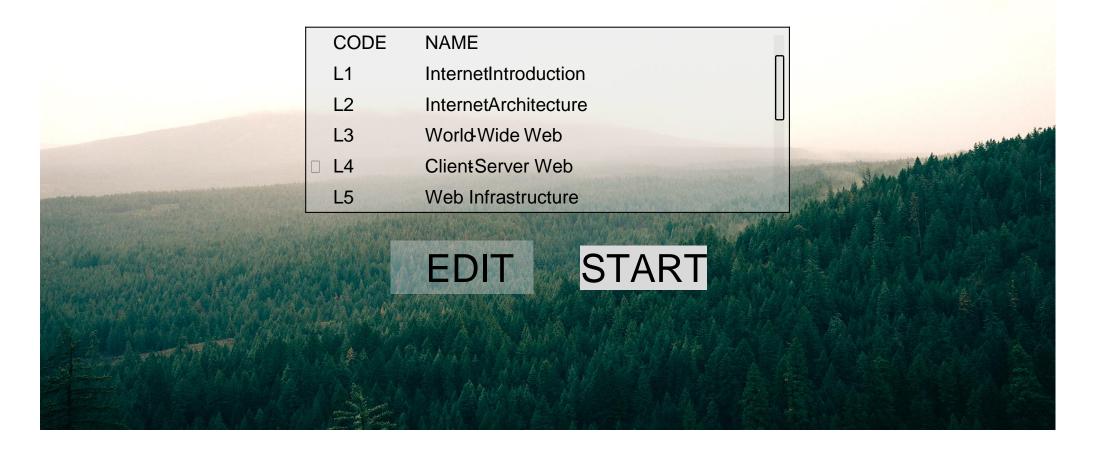


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Log out

Select the lecture



Internet TechnologiesClientServer Web Question 1

Exit

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



00:24

Internet TechnologiesClientServer Web Question 1

Exit

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

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	R4	Presentationand Application Tiers	5%	
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		NEXT		