



# TW

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# Learning Outcomes

After completing this course you should be able to:

- Create and validate HTML 5 documents
- Layout HTML 5 documents using CSS
- Design a relational database
- Make simple queries to relational databases
- Create a dynamic web application using PHP and relational databases

# Course Content

- Entity Relationship Model
- Relational Model
- Database creation using SQL
- Querying Databases using SQL
- Document Specification using HTML 5
- Document Presentation using CSS
- Dynamic Websites using PHP, HTML, CSS and SQL

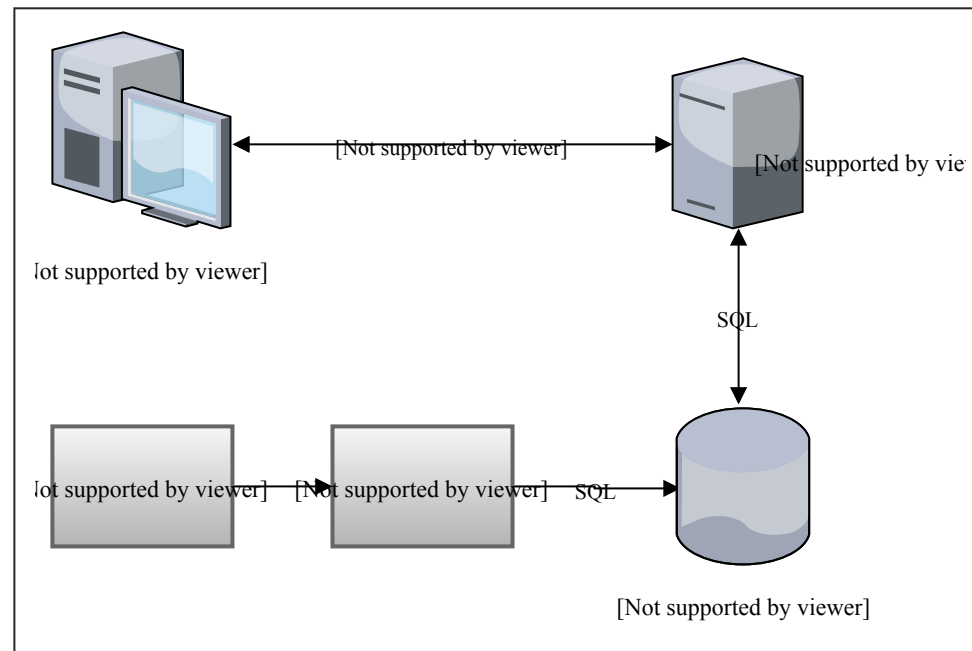
# Main Bibliography

- Michal Zalewski; The tangled Web. ISBN: 978-1-59327-388-0
- Jakob Nielsen; Designing web usability. ISBN: 1-56205-810-X
- Jeffrey D. Ullman, Jennifer Widom; A First Course in Database Systems. ISBN: 0-13-8687647-9
- Provided Slides
- Lots of Web resources and tutorials!

# Evaluation

- To obtain frequency, students may not exceed the maximum number allowed of missed classes. Attendance will be registered in all classes.
- It is necessary to obtain a minimum of 10 (out of 20) in the distributed evaluation component to have access to the exam.
- Distributed evaluation is determined by evaluating one small written report and a practical assessment.
- Final mark =  $0.4 \text{ Exam} + 0.2 \text{ Report} + 0.4 * \text{Practical}$
- To pass, it is mandatory to have a minimum of 8 marks (in 20) in the final exam.

# Project



# Classes

Classes are divided in two parts:

- presentation of the subject topics along with application examples
- presentation of practical exercises to be solved in a computer by students