



BAKER COLLEGE
STUDENT LEARNING OUTCOMES

WEB2210 Interactive Web Design
3 Semester Hours

Student Learning Outcomes & Enabling Objectives

1. Explain the different architectures for building interactive web applications.
 - a. Describe various implementation methods and technology stack architecture.
 - b. Demonstrate the use of a complete program development environment.

2. Create Laravel program to send and receive data.
 - a. Create Laravel programs utilizing hyperlinks.
 - b. Create Laravel programs utilizing online forms.
 - c. Create Laravel programs utilizing data files.
 - d. Create Laravel programs utilizing databases.

3. Use Laravel language methods for the following programming concepts:
 - a. Use variables and arrays.
 - b. Use selection structure.
 - c. Use functions.
 - d. Use string manipulation.

4. Create Laravel scripts to provide the following functions:
 - a. Perform calculations on form data and generate a HTML page to display the results.
 - b. Store data from a data file and database.
 - c. Retrieve data from a data file and database.
 - d. Create a session or cookie.

5. Use Laravel programs from the Internet for use in web sites.
 - a. Integrate scripts into an existing application.
 - b. Write well-documented programs to show integration components.

6. Analyze a Web site's requirements for interactive elements.
 - a. Design applications that meet requirements.
 - b. Use testing methods and version control techniques to manage web design projects.

7. Integrate Laravel programs to be included in a Web site to be included in a portfolio of Web design projects.

- a. Construct graphical user interfaces to integrate with Laravel.
 - b. Solve problems effectively relating to writing Laravel applications.
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Big Ideas

- Using the Laravel framework to simplify web development
- Using the MVC design pattern
- Creating and using a database
- Creating login capabilities
- Testing and deploying your site

Essential Questions

1. What are the benefits to using a framework?
2. Why is the MVC design pattern so fitting for Laravel?
3. What are some libraries that you can use with Laravel?
4. How does Laravel make it easier to work with databases?
5. What options do you have for testing your site?
6. Why would you implement login capabilities with your site?

These SLOs are approved for experiential credit.

Effective: Spring 2022