B.C.A. Semester — IV BCA-402: Building Application Using PHP

Unit 4: Data Access with MySql, Email, Web Services

Outlines

Data Access with MySQL, Email, and Web Services:

Using MySQL with PHP:

- Connect to MySQL and select the database
- Execute simple queries
- Retrieve query results
- Count returned records
- Update records
- Add, view, and delete records with PHP

Email:

- Understand email
- Receive email with PHP
- Send email

Web Services:

- Introduction to web services
- Web services model
- Platform elements

Data Access with MySQL, Email, and Web Services

Using MySQL with PHP

MySQL is a popular open-source database management system, commonly used with PHP. In this chapter, we will explore how to use MySQL with PHP.

Connecting to MySQL and Selecting the Database

To connect to MySQL, we use the mysqli_connect() function in PHP. This function takes four arguments: the server name, username, password, and database name. Here's an example:

\$con = mysqli_connect("localhost", "my_user", "my_password", "my_db");

Once we have connected to the database, we need to select the database we want to work with:

github.com/xmi1an/bca 1

B.C.A. Semester — IV BCA-402: Building Application Using PHP Unit 4: Data Access with MySql, Email, Web Services

mysqli_select_db(\$con, "my_db");

Executing Simple Queries

To execute a simple query with MySQL, we use the mysqli_query() function in PHP. This function takes two arguments: the database connection and the SQL query. Here's an example:

\$result = mysqli_query(\$con, "SELECT * FROM my_table");

Retrieving Query Results

To retrieve the results of a query, we use the mysqli_fetch_array() function in PHP. This function returns an array of the rows in the result set. Here's an example:

```
while ($row = mysqli_fetch_array($result)) {
   echo $row['column_name'];
}
```

Counting Returned Records

To count the number of records returned by a query, we use the mysqli_num_rows() function in PHP. Here's an example:

```
$num_rows = mysqli_num_rows($result);
echo "There are " . $num_rows . " rows in the result set.";
```

Updating Records

To update records in a MySQL database, we use the mysqli_query() function with an UPDATE statement. Here's an example:

mysqli_query(\$con, "UPDATE my_table SET column_name = 'new_value' WHERE id = 1");

Adding, Viewing, and Deleting Records with PHP

To add a record to a MySQL database, we use the mysqli_query() function with an INSERT statement. Here's an example:

mysqli_query(\$con, "INSERT INTO my_table (column1, column2) VALUES ('value1', 'value2')");

B.C.A. Semester — IV BCA-402: Building Application Using PHP Unit 4: Data Access with MySql, Email, Web Services

To view a record from a MySQL database, we use a SELECT statement:

```
$result = mysqli_query($con, "SELECT * FROM my_table WHERE id = 1");
$row = mysqli_fetch_array($result);
echo $row['column_name'];
```

To delete a record from a MySQL database, we use the mysqli_query() function with a DELETE statement. Here's an example:

```
mysqli_query($con, "DELETE FROM my_table WHERE id = 1");
```

Email

Understanding Email

Email is a method of exchanging messages between people using electronic devices. In PHP, we can use the mail() function to send emails.

Receiving Email with PHP

To receive email with PHP, we can use the imap_open() function. This function takes four arguments: the server name, username, password, and mailbox name. Here's an example:

```
$mailbox = imap_open("{mail.example.com:143}INBOX", "username", "password");
```

Sending Email

To send email with PHP, we use the mail() function. This function takes five arguments: the recipient's email address, the subject of the email, the message, any additional headers, and any additional parameters. Here's an example:

```
$to = "recipient@example.com";

$subject = "Test Email";

$message = "This is a test email.";

$headers = "From: sender@example.com";

mail($to, $subject, $message, $headers);
```

github.com/xmi1an/bca 3

B.C.A. Semester — IV BCA-402 : Building Application Using PHP Unit 4 : Data Access with MySql, Email, Web Services

Web Services