

Laborator 5

Obiectiv:

Crearea unei aplicații web pentru susținerea și promovarea femeilor în domeniul tehnologiei financiare, utilizând HTML, PHP și MySQL.

Cerințe tehnice și funcționale:

1. Crearea Bazei de Date

- Creați baza de date 'women_fintech'
- Implementați următoarele tabele:
 - members (pentru profilele membrilor)
 - success_stories (pentru povești de succes)
 - events (pentru evenimente)
- Definiți relațiile corecte între tabele

2. Operații CRUD

Implementați următoarele operațiuni:

- Create: Adăugare membru nou
- Read: Afișare listă membri
- Update: Modificare informații membru
- Delete: Ștergere membru

3. Interfața Web

- Creați un formular pentru:
 - Înregistrare membru nou
 - Editare profil existent
 - Căutare membri
- Implementați o pagină de afișare a rezultatelor
- Asigurați un design responsiv

4. Funcționalități Extra

- Implementați filtrare după:
 - Profesie
 - Companie
 - Status
- Adăugați validare pentru:
 - Email (format valid)
 - Câmpuri obligatorii
 - LinkedIn URL

Structura proiectului:

women_fintech/

|

└─ config/

```
|   └─ database.php
|
|   └─ includes/
|       └─ header.php
|       └─ footer.php
|
|   └─ css/
|       └─ style.css
|
|   └─ js/
|       └─ main.js
|
|   └─ index.php
|   └─ members.php
|   └─ add_member.php
|   └─ edit_member.php
└─ delete_member.php
```

Să se implementeze baza de date

-- Tabel Members

```
CREATE TABLE members (
    id INT PRIMARY KEY AUTO_INCREMENT,
    first_name VARCHAR(50) NOT NULL,
    last_name VARCHAR(50) NOT NULL,
    email VARCHAR(100) UNIQUE NOT NULL,
    profession VARCHAR(100),
    company VARCHAR(100),
    expertise TEXT,
    linkedin_profile VARCHAR(255),
```

```
status ENUM('active', 'pending', 'mentor') DEFAULT 'pending',
created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
```

-- Tabel Events

```
CREATE TABLE events (
    id INT PRIMARY KEY AUTO_INCREMENT,
    title VARCHAR(255) NOT NULL,
    description TEXT,
    event_date DATETIME NOT NULL,
    location VARCHAR(255),
    event_type ENUM('workshop', 'mentoring', 'networking', 'conference'),
    max_participants INT,
    created_by INT,
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    FOREIGN KEY (created_by) REFERENCES members(id) ON DELETE SET NULL
);
```

-- Tabel Event Registrations (entitate asociativă)

```
CREATE TABLE event_registrations (
    id INT PRIMARY KEY AUTO_INCREMENT,
    member_id INT,
    event_id INT,
    registration_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    status ENUM('confirmed', 'waiting', 'cancelled') DEFAULT 'confirmed',
    FOREIGN KEY (member_id) REFERENCES members(id) ON DELETE CASCADE,
    FOREIGN KEY (event_id) REFERENCES events(id) ON DELETE CASCADE
);
```

Pa1: config/database.php

```
<?php
class Database {
    private $host = "localhost";
    private $db_name = "women_fintech";
    private $username = "root";
    private $password = "";
    public $conn;

    public function getConnection() {
        $this->conn = null;
        try {
            $this->conn = new PDO("mysql:host=" . $this->host . ";dbname=" . $this->db_name,
                                $this->username,
                                $this->password);
            $this->conn->setAttribute(PDO::ATTR_ERRMODE,
PDO::ERRMODE_EXCEPTION);
        } catch(PDOException $e) {
            echo "Connection Error: " . $e->getMessage();
        }
        return $this->conn;
    }
}
?>
```

Pas2. includes/header.php

```
<!DOCTYPE html>
<html lang="ro">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Women in FinTech</title>
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
    <link rel="stylesheet" href="css/style.css">
</head>
<body>
    <nav class="navbar navbar-expand-lg navbar-dark bg-primary">
        <div class="container">
            <a class="navbar-brand" href="index.php">Women in FinTech</a>
            <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarNav">
                <span class="navbar-toggler-icon"></span>
```

```

</button>
<div class="collapse navbar-collapse" id="navbarNav">
  <ul class="navbar-nav">
    <li class="nav-item">
      <a class="nav-link" href="members.php">Members</a>
    </li>
    <li class="nav-item">
      <a class="nav-link" href="add_member.php">Add Member</a>
    </li>
  </ul>
</div>
</div>
</nav>
<div class="container mt-4">

```

Pas3. includes/footer.php

```

</div>
<footer class="footer mt-auto py-3 bg-light">
  <div class="container text-center">
    <span class="text-muted">© 2024 Women in FinTech </span>
  </div>
</footer>
<script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>
<script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.5.4/dist/umd/popper.min.js"></script>
<script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
<script src="js/main.js"></script>
</body>
</html>

```

Pas4. css/style.css

```

body {
  min-height: 100vh;
  display: flex;
  flex-direction: column;
}

.container {
  flex: 1;
}

.footer {
  margin-top: auto;
}

```

```

}

.member-card {
  margin-bottom: 20px;
  box-shadow: 0 2px 5px rgba(0,0,0,0.1);
}

.form-container {
  max-width: 600px;
  margin: 0 auto;
  padding: 20px;
}

```

Pas5.js/main.js

```

document.addEventListener('DOMContentLoaded', function() {
  // Validare formular
  const form = document.querySelector('form');
  if(form) {
    form.addEventListener('submit', function(e) {
      const email = document.querySelector('input[type="email"]');
      const linkedin = document.querySelector('input[name="linkedin_profile"]');

      if(email && !validateEmail(email.value)) {
        e.preventDefault();
        alert('Please enter a valid email address');
      }

      if(linkedin && !validateLinkedIn(linkedin.value)) {
        e.preventDefault();
        alert('Please enter a valid LinkedIn URL');
      }
    });
  }
});

function validateEmail(email) {
  return /^[^s@]+@[^s@]+\.[^s@]+$/.test(email);
}

function validateLinkedIn(url) {
  return url.includes('linkedin.com/');
}

```

Pas6. index.php

```

<?php
include_once "includes/header.php";
?>

<div class="jumbotron">
    <h1 class="display-4">Welcome to Women in FinTech</h1>
    <p class="lead">Empowering women in financial technology through community and
collaboration.</p>
    <hr class="my-4">
    <p>Join our community of professional women in FinTech.</p>
    <a class="btn btn-primary btn-lg" href="add_member.php" role="button">Join Now</a>
</div>

<?php
include_once "includes/footer.php";
?>

```

Pas7. members.php

```

<?php
include_once "config/database.php";
include_once "includes/header.php";

$database = new Database();
$db = $database->getConnection();

$query = "SELECT * FROM members ORDER BY created_at DESC";
$stmt = $db->prepare($query);
$stmt->execute();
?>

<h2>Members Directory</h2>

<div class="row">
    <?php while ($row = $stmt->fetch(PDO::FETCH_ASSOC)): ?>
        <div class="col-md-4">
            <div class="card member-card">
                <div class="card-body">
                    <h5 class="card-title"><?php echo htmlspecialchars($row['first_name']) . ' ' .
$row['last_name']; ?></h5>
                    <p class="card-text">
                        <strong>Profession:</strong> <?php echo
htmlspecialchars($row['profession']); ?><br>
                        <strong>Company:</strong> <?php echo htmlspecialchars($row['company']);
?>
                    </p>
                </div>
            </div>
        </div>
    </?php endwhile ?>
</div>

```

```

        <a href="edit_member.php?id=<?php echo $row['id']; ?>" class="btn btn-
primary">Edit</a>
        <a href="delete_member.php?id=<?php echo $row['id']; ?>" class="btn btn-
danger"
        onclick="return confirm('Are you sure?')">Delete</a>
    </div>
</div>
</div>
<?php endwhile; ?>
</div>

<?php
include_once "includes/footer.php";
?>

```

Pas8. add_member.php

```

<?php
include_once "config/database.php";
include_once "includes/header.php";

if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    $database = new Database();
    $db = $database->getConnection();

    $query = "INSERT INTO members
        (first_name, last_name, email, profession, company, expertise, linkedin_profile)
        VALUES (?, ?, ?, ?, ?, ?, ?)";

    $stmt = $db->prepare($query);

    $stmt->execute([
        $_POST['first_name'],
        $_POST['last_name'],
        $_POST['email'],
        $_POST['profession'],
        $_POST['company'],
        $_POST['expertise'],
        $_POST['linkedin_profile']
    ]);

    header("Location: members.php");
    exit();
}
?>

```



```
<div class="form-container">
  <h2>Add New Member</h2>
  <form method="POST">
    <div class="form-group">
      <label>First Name</label>
      <input type="text" name="first_name" class="form-control" required>
    </div>

    <div class="form-group">
      <label>Last Name</label>
      <input type="text" name="last_name" class="form-control" required>
    </div>

    <div class="form-group">
      <label>Email</label>
      <input type="email" name="email" class="form-control" required>
    </div>

    <div class="form-group">
      <label>Profession</label>
      <input type="text" name="profession" class="form-control">
    </div>

    <div class="form-group">
      <label>Company</label>
      <input type="text" name="company" class="form-control">
    </div>

    <div class="form-group">
      <label>Expertise</label>
      <textarea name="expertise" class="form-control"></textarea>
    </div>

    <div class="form-group">
      <label>LinkedIn Profile</label>
      <input type="url" name="linkedin_profile" class="form-control">
    </div>

    <button type="submit" class="btn btn-primary">Add Member</button>
  </form>
</div>

<?php
include_once "includes/footer.php";
?>
```

Pas9. edit_member.php

```
<?php
include_once "config/database.php";
include_once "includes/header.php";

$database = new Database();
$db = $database->getConnection();

if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    $query = "UPDATE members
        SET first_name=?, last_name=?, email=?, profession=?,
            company=?, expertise=?, linkedin_profile=?
        WHERE id=?";

    $stmt = $db->prepare($query);
    $stmt->execute([
        $_POST['first_name'],
        $_POST['last_name'],
        $_POST['email'],
        $_POST['profession'],
        $_POST['company'],
        $_POST['expertise'],
        $_POST['linkedin_profile'],
        $_GET['id']
    ]);

    header("Location: members.php");
    exit();
}

$query = "SELECT * FROM members WHERE id = ?";
$stmt = $db->prepare($query);
$stmt->execute([$_GET['id']]);
$member = $stmt->fetch(PDO::FETCH_ASSOC);
?>

<div class="form-container">
    <h2>Edit Member</h2>
    <form method="POST">
        <div class="form-group">
            <label>First Name</label>
            <input type="text" name="first_name" class="form-control"
                value="<?php echo htmlspecialchars($member['first_name']); ?>" required>
        </div>

        <div class="form-group">
```

```

        <label>Last Name</label>
        <input type="text" name="last_name" class="form-control"
            value="<?php echo htmlspecialchars($member['last_name']); ?>" required>
    </div>

    <div class="form-group">
        <label>Email</label>
        <input type="email" name="email" class="form-control"
            value="<?php echo htmlspecialchars($member['email']); ?>" required>
    </div>

    <div class="form-group">
        <label>Profession</label>
        <input type="text" name="profession" class="form-control"
            value="<?php echo htmlspecialchars($member['profession']); ?>">
    </div>

    <div class="form-group">
        <label>Company</label>
        <input type="text" name="company" class="form-control"
            value="<?php echo htmlspecialchars($member['company']); ?>">
    </div>

    <div class="form-group">
        <label>Expertise</label>
        <textarea name="expertise" class="form-control"><?php echo
htmlspecialchars($member['expertise']); ?></textarea>
    </div>

    <div class="form-group">
        <label>LinkedIn Profile</label>
        <input type="url" name="linkedin_profile" class="form-control"
            value="<?php echo htmlspecialchars($member['linkedin_profile']); ?>">
    </div>

    <button type="submit" class="btn btn-primary">Update Member</button>
</form>
</div>

<?php
include_once "includes/footer.php";
?>

```

Pas10 delete_member.php

```
<?php
```

```
include_once "config/database.php";

if (isset($_GET['id'])) {
    $database = new Database();
    $db = $database->getConnection();

    $query = "DELETE FROM members WHERE id = ?";
    $stmt = $db->prepare($query);
    $stmt->execute([$_GET['id']]);
}

header("Location: members.php");
exit();
?>
```

Tema individuala

Nivel Începător:

1. Modificări de interfață:
 - Personalizarea culorilor și stilurilor în CSS
 - Adăugarea unui logo personalizat
 - Implementarea unui mod întunecat (dark mode)
 - Adăugarea de animații simple la hover pe cardurile membrilor
2. Modificări simple de funcționalitate:
 - Adăugarea unui câmp pentru fotografie de profil
 - Implementarea unui sistem de sortare a membrilor după nume/data înscrierii
 - Adăugarea unui filtru simplu pentru profesii
 - Implementarea unui sistem de paginare pentru lista de membri

Nivel Intermediar:

1. Dezvoltare de funcționalități noi:

```
// Exemplu de cerință: Implementați un sistem de căutare
// search.php
<?php
$search = $_GET['query'];
$query = "SELECT * FROM members
        WHERE first_name LIKE :search
        OR last_name LIKE :search
        OR profession LIKE :search";
```

2. Adăugarea unui dashboard pentru statistici:
 - Număr total de membri
 - Distribuția pe profesii
 - Membri noi pe lună
 - Top companii reprezentate
3. Implementarea unui sistem de notificări:

```
CREATE TABLE notifications (
  id INT PRIMARY KEY AUTO_INCREMENT,
  member_id INT,
  message TEXT,
  read_status BOOLEAN DEFAULT FALSE,
  created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
  FOREIGN KEY (member_id) REFERENCES members(id)
);
```

Tema Proiect complet: WomenTechPower Platform

Obiectiv General

Dezvoltarea unei platforme web complete care să susțină și să promoveze femeile în domeniul tehnologiei, oferind resurse educaționale, oportunități de networking și dezvoltare profesională.

Funcționalități Obligatorii

1. Sistem de Utilizatori

- Înregistrare/Login cu roluri diferite (membru, mentor, admin)
- Profil profesional extins
- Dashboard personalizat
- Sistem de recomandări de conexiuni

2. Secțiune de Resource Hub

- Articole și tutoriale
- Materiale video
- Podcast-uri
- Resurse downloadable (PDF, prezentări)
- Sistem de căutare și filtrare

3. Secțiune de Events

- Calendar de evenimente
- Sistem de înregistrare la evenimente
- Evenimente online și offline
- Feedback și rating sistem

4. Mentorship Program

- Sistem de matching mentor-mentee
- Programare sesiuni
- Tracking progres
- Feedback sistem

5. Jobs Board

- Listare job-uri
- Aplicare directă
- Filtrare avansată

- Sistem de recomandări