

Dokumentacja serwera i strony internetowej "Kulencjusz GameDev"

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Opis projektu

Projekt "Kulencjusz GameDev" jest stroną internetową dla entuzjastów tworzenia gier komputerowych. Umożliwia użytkownikom rejestrację, logowanie oraz przeglądanie artykułów, projektów i społeczności związanej z game developmentem.

Struktura plików

/client

```
| ├── about.html
| ├── articles.html
| ├── community.html
| ├── forum.html
| ├── index.html
| ├── login.html
| ├── projects.html
| ├── register.html
| ├── style2.css
| ├── 404.html
| ├── 500.html
| └── index.js
├── server.js
├── package.json
└── README.md
```

Instalacja i uruchomienie

Sklonuj repozytorium:

bash

- `git clone https://github.com/Kulencjusz/GameDev.git`
- `cd GameDev`

- Zainstaluj zależności:

bash

- `npm install`

- Uruchom serwer:

bash

```
1. node server.js
```

Serwer będzie nasłuchiwał na porcie 4001.

Konfiguracja serwera

Serwer został skonfigurowany z wykorzystaniem Express.js i MySQL. Poniżej znajduje się konfiguracja serwera zawarta w pliku `server.js`:

```
var express = require('express');
const mysql = require('mysql2');
const session = require('express-session');
var bodyParser = require('body-parser')
var app = express();
app.use(express.json());
app.use(express.static('client'));
app.use(bodyParser.urlencoded({ extended: false }));
app.use(session({
  secret: 'kluczykens',
  resave: false,
  saveUninitialized: true
}));

const db = mysql.createConnection({
  host: 'localhost',
  user: 'gamedevdb',
  password: 'gamedevdb',
  database: 'gamedevdb'
});

db.connect((err) => {
  if (err) {
    throw err;
  }
  console.log('MySQL connected');
  dropTables();
});

function dropTables() {
  const dropUserTable = `DROP TABLE IF EXISTS users`;
  const dropCommunityGroupTable = `DROP TABLE IF EXISTS community_groups`;
  const dropProjectsTable = `DROP TABLE IF EXISTS projects`;

  db.query(dropUserTable, (err) => {
    if (err) {
      throw err;
    }
    console.log('Users table dropped');
    db.query(dropCommunityGroupTable, (err) => {
```

```

        if (err) {
            throw err;
        }
        console.log('Community groups table dropped');
        db.query(dropProjectsTable, (err) => {
            if (err) {
                throw err;
            }
            console.log('Projects table dropped');
            createTables();
        });
    });
});
}

function createTables() {
    const createUserTable = `
        CREATE TABLE IF NOT EXISTS users (
            id INT AUTO_INCREMENT PRIMARY KEY,
            nickname VARCHAR(255) NOT NULL,
            password VARCHAR(255) NOT NULL,
            date_of_join DATETIME DEFAULT CURRENT_TIMESTAMP,
            studio_name VARCHAR(255),
            number_of_projects INT DEFAULT 0,
            user_group VARCHAR(255),
            number_of_articles INT DEFAULT 0
        )
    `;

    const createCommunityGroupTable = `
        CREATE TABLE IF NOT EXISTS community_groups (
            id INT AUTO_INCREMENT PRIMARY KEY,
            name VARCHAR(255) NOT NULL,
            no_of_participants INT DEFAULT 1,
            creator VARCHAR(255) NOT NULL,
            date_of_creation DATETIME DEFAULT CURRENT_TIMESTAMP,
            tags VARCHAR(255)
        )
    `;

    const createProjectsTable = `
        CREATE TABLE IF NOT EXISTS projects (
            id INT AUTO_INCREMENT PRIMARY KEY,
            title VARCHAR(255) NOT NULL,
            author VARCHAR(255) NOT NULL,
            description TEXT,
            url_to_project VARCHAR(255)
        )
    `;

```

```

    db.query(createUserTable, (err) => {
      if (err) {
        throw err;
      }
      console.log('Users table created');
    });

    db.query(createCommunityGroupTable, (err) => {
      if (err) {
        throw err;
      }
      console.log('Community groups table created');
    });

    db.query(createProjectsTable, (err) => {
      if (err) {
        throw err;
      }
      console.log('Projects table created');
    });
  }

  app.post('/register', (req, res) => {
    const { nickname, password, studioName } = req.body;

    const sql = `INSERT INTO users (nickname, password, studio_name) VALUES
    (?, ?, ?)`;
    db.query(sql, [nickname, password, studioName], (err, result) => {
      if (err) {
        console.error('Error registering user:', err);
        res.status(500).send('An error occurred while registering the
user.');
```

user.');

```

        return;
      }
      console.log('User registered successfully');
      res.status(200).send('User registered successfully');
    });
  });

  app.post('/login', (req, res) => {
    const { nickname, password } = req.body;

    const sql = 'SELECT * FROM users WHERE nickname = ?';
    db.query(sql, [nickname], (err, results) => {
      if (err) {
        console.error('Error querying database:', err);
        return res.status(500).send('An error occurred while logging
in.');
```

```

    }

    if (results.length === 0) {
        return res.status(401).send('User not found');
    }

    const user = results[0];
    if (user.password !== password) {
        return res.status(401).send('Invalid password');
    }

    req.session.user = {
        id: user.id,
        nickname: user.nickname,
    };

    res.status(200).send('Login successful');
  });
});

app.get('/checkSession', (req, res) => {
  if (req.session.user) {
    res.json({ loggedIn: true, nickname: req.session.user.nickname });
  } else {
    res.json({ loggedIn: false });
  }
});

app.get('/logout', (req, res) => {
  req.session.destroy(err => {
    if (err) {
      console.error('Error destroying session:', err);
      res.status(500).send('Logout failed');
    } else {
      res.status(200).send('Logout successful');
    }
  });
});

app.get('*', (req, res) => {
  res.sendFile(__dirname + '/client/index.html');
});

app.listen(4001, () => {
  console.log("Server listening on Port 4001.");
});

```

Endpointy API

- **POST /register:** Rejestracja użytkownika.
- **POST /login:** Logowanie użytkownika.
- **GET /checkSession:** Sprawdzenie stanu sesji użytkownika.
- **GET /logout:** Wylogowanie użytkownika.

Strona internetowa

HTML (Plik index.html)

```
<!DOCTYPE html>
<html lang="pl">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Kulencjusz GameDev</title>
  <link rel="stylesheet" href="style2.css">
  <link href="//netdna.bootstrapcdn.com/twitter-bootstrap/2.3.2/css/bootstrap-combined.no-icons.min.css" rel="stylesheet">
  <link href="//netdna.bootstrapcdn.com/font-awesome/3.2.1/css/font-awesome.css" rel="stylesheet">
  <script src="index.js"></script>
</head>
<body>
  <div class="menu-container">
    <div class="menu-drawer">
      <nav class="menu-drawer-list">
        <ul>
          <li><a href="articles.html" id="articles-link">ARTYKUŁY</a></li>
          <li><a href="projects.html" id="projects-link">PROJEKTY</a></li>
          <li><a href="forum.html" id="forum-link">FORUM</a></li>
          <li><a href="community.html" id="community-link">SPOŁECZNOŚĆ</a></li>
          <li><a href="about.html" id="about-link">O NAS</a></li>
          <li><a href="https://github.com/Kulencjusz" target="_blank"><i class="fa-brands fa-github"></i> GitHub</a></li>
        </ul>
      </nav>
    </div>
    <button class="menu-toggle" onclick="toggleMenu()">☰</button>
  </div>
  <h1><a href="index.html">Game Development</a></h1>
  <div class="search">
    <input type="text" placeholder="Wyszukaj na stronie...">
    <a href="login.html" class="button">ZALOGUJ SIĘ</a>
    <a href="register.html" class="button-text">ZAREJESTRUJ SIĘ</a>
  </div>
</body>
</html>
```

[illegible]


```

        <div class="new-projects">
            <h4>Ostatnio dodane projekty</h4>
            <p class="article">Autor: Kulencjusz<br>Tytuł: Haunted
Forest</p>
            <p><a href="projects.html">Graj</p>
        </div>
    </div>

    <div class="footer">
        <div class="footer-content">
            <ul>
                <li>KONTAKT wwfire@vp.pl</li>
                <li>Copyright @ 2024 Kulencjusz</li>
            </ul>
        </div>
    </div>
</body>
</html>

```

Stylizacja CSS (Plik style2.css)

```

body {
    background-image: url('bg.jpg');
    background-repeat: no-repeat;
    background-attachment: fixed;
    background-size: 100% 100%;
    margin: 0;
    padding: 0;
}

h1 a:hover {
    text-decoration: none;
    color: white;
}

.search a:hover {
    text-decoration: none;
    color: white;
}

.menu-container {
    position: fixed;
    top: 0;
    left: 0;
    z-index: 999;
}

```

```
.menu-drawer {
  position: fixed;
  top: 0;
  left: -250px;
  width: 250px;
  height: 100vh;
  background-image: linear-gradient(to bottom, black, #470c6d, black);
  transition: left 0.3s ease;
  font-family: Georgia, sans-serif;
}

.menu-drawer-list ul {
  list-style-type: none;
  padding: 0;
  margin: 0;
  display: flex;
  flex-direction: column;
  justify-content: center;
}

.menu-drawer-list ul li {
  text-align: center;
  border-bottom: 1px solid white;
}

.menu-drawer-list ul li:last-child {
  border-bottom: none;
}

.menu-drawer-list ul li a {
  display: block;
  padding: 10px;
  color: white;
  text-decoration: none;
  font-size: 18px;
}

.menu-toggle {
  position: absolute;
  top: 10px;
  left: 10px;
  font-size: 24px;
  color: white;
  background-color: transparent;
  border: none;
  cursor: pointer;
}

.content-container {
```

```
display: flex;
justify-content: space-between;
align-items: flex-start;
margin-top: 20px;
padding: 0 20px;
}

.main-panel {
  flex: 1;
  background-color: rgba(217, 217, 217, 0.75);
  padding: 20px;
  margin-left: 4%;
  width: 65%;
  height: auto;
  font-family: Georgia, sans-serif;
}

.new-projects {
  width: 20%;
  background-color: rgba(255, 255, 255, 0.9);
  padding: 20px;
  margin-right: 4%;
  margin-left: 2%;
  font-family: Georgia, sans-serif;
}

.footer {
  background-color: #1E0A47;
  color: white;
  padding: 5px;
  text-align: center;
  margin-top: 2%;
  font-family: Georgia, sans-serif;
  letter-spacing: 0.1em;
  padding-top: 20px;
  padding-bottom: 10px;
  margin-bottom: 0;
}

.footer ul {
  list-style-type: none;
  padding: 0;
}

.footer ul li {
  margin-bottom: 10px;
}

.button {
```

```
padding: 10px 20px;
border-radius: 20px;
background-color: #06B1BC;
color: white;
text-decoration: none;
font-size: 16px;
position: absolute;
top: 3%;
right: 5%;
font-family: Georgia, sans-serif;
letter-spacing: 0.1em;
}

.search{
  display: flex;
  align-items: center;
  font-family: Georgia, sans-serif;
}

.search input::placeholder {
  display: flex;
  align-items: center;
  font-family: Georgia, sans-serif;
  color: white;
}

.search input[type="text"] {
  width: 200px;
  padding: 10px;
  border: none;
  border-radius: 20px;
  background-color: #86A7A9;
  color: white;
  font-size: 14px;
  position: absolute;
  top: 14%;
  right: 5%;
  font-family: Georgia, sans-serif;
  letter-spacing: 0.1em;
}

.button-text {
  display: inline-block;
  padding: 10px 20px;
  border-radius: 20px;
  color: white;
  text-decoration: none;
  font-size: 16px;
  position: absolute;
```

```
    top: 8%;
    right: 4%;
    font-family: Georgia, sans-serif;
    letter-spacing: 0.1em;
}

.menu {
    background-color: #06B1BC;
    color: white;
    margin: 0 auto;
    text-align: center;
    width: 90%;
    margin: 0 auto;
    font-family: Georgia, sans-serif;
    letter-spacing: 0.1em;
    padding: 10px 0;
    padding-top: 20px;
    padding-bottom: 20px;
}

.menu h1 {
    margin: 0;
}

.menu-list {
    margin-top: 10px;
}

.menu-list ul {
    list-style-type: none;
    padding: 0;
    display: flex;
    justify-content: center;
}

.menu-list ul li {
    display: inline-block;
    margin: 0 10px;
}

.menu-list ul li a {
    color: white;
    text-decoration: none;
    font-size: 30px;
    font-weight: normal;
}

.menu-list ul li:not(:last-child)::after {
    content: " ";
```

```
margin: 0 10px;
width: 1px;
background-color: white;
transform: translateY(-40%) ;
height: 150%;
border-right: 1px solid white;
margin-right: -10px;
}

h1{
  color: white;
  letter-spacing: 0.2em;
  font-family: Georgia, sans-serif;
  font-size: 64px;
  font-weight: normal;
  padding-left: 5%;
  text-decoration: none;
  padding-top: 3%;
  padding-bottom: 3%;
}

h1 a {
  color: white;
  letter-spacing: 0.2em;
  font-family: Georgia, sans-serif;
  font-size: 64px;
  font-weight: normal;
  padding-left: 5%;
  text-decoration: none;
  padding-top: 3%;
  padding-bottom: 3%;
}

.next-button a{
  color: #190188;
  text-decoration: none;
  font-family: Georgia, sans-serif;
  font-weight: normal;
  padding-left: 80%;
  font-size: 20px;
  letter-spacing: 0.1em;
}

.main-panel {
  text-align: justify;
}

.main-panel h2 {
  color: black;
```

```
    font-size: 32px;
    font-family: Georgia, sans-serif;
    text-decoration: underline;
    font-weight: normal;
    padding-left: 2%;
}

.main-panel h3 {
    color: black;
    font-size: 24px;
    font-family: Georgia, sans-serif;
    font-weight: normal;
    padding-left: 2%;
}

.main-panel h4 {
    color: black;
    font-size: 16px;
    font-family: Georgia, sans-serif;
    font-weight: bold;
    text-align: left;
    text-decoration: underline;
    padding-left: 2%;
}

h4 {
    color: black;
    font-size: 16px;
    font-family: Georgia, sans-serif;
    font-weight: normal;
    text-align: center;
    text-decoration: underline;
}

.article {
    color: black;
    font-size: 12px;
    font-family: Georgia, sans-serif;
    font-weight: normal;
    text-align: right;
    text-decoration: underline;
}

p {
    color: black;
    font-size: 16px;
    font-family: Georgia, sans-serif;
    font-weight: normal;
    padding-left: 2%;
}
```

```
}

.menu-list ul li a.active {
    text-decoration: underline;
}

.main-panel img {
    max-width: 100%;
    height: auto;
    display: block;
    margin: 0 auto;
}

.game-container {
    text-align: center;
    position: relative;
}

#game-text {
    margin-bottom: 20px;
    color: white;
    font-size: 18px;
}

#choices button {
    margin: 5px;
    padding: 10px 20px;
    font-size: 16px;
    background-color: #444;
    border: none;
    color: #fff;
    cursor: pointer;
    justify-content: center;
}

#choices button:hover {
    background-color: #666;
}

.game-bg {
    background-image: url('images/forest.jpg');
    background-size: 100%;
    background-position: center;
    background-repeat: no-repeat;
    padding-top: 300px;
    padding-bottom: 300px;
    width: auto;
}
```



```
#inventory {
    color:white;
    position: absolute;
    top: -280px;
    left: 20px;
    font-size: 20px;
}

label {
    font-size: 20px;
    font-family: Georgia, sans-serif;
    font-weight: normal;
    color: black;
}

input {
    padding: 10px 20px;
    border-radius: 20px;
    background-color: rgba(77, 183, 186, 0.5);
    color: white;
    text-decoration: none;
    font-size: 20px;
    font-family: Georgia, sans-serif;
    letter-spacing: 0.1em;
    border: 1px solid black;
}

button {
    padding: 10px 20px;
    border-radius: 20px;
    background-color: #06B1BC;
    color: white;
    text-decoration: none;
    font-size: 20px;
    font-family: Georgia, sans-serif;
    letter-spacing: 0.1em;
    border: none;
}

.main-panel form {
    text-align: center;
}

form input[type="text"] {
    padding: 10px 20px;
    border-radius: 20px;
    background-color: rgba(77, 183, 186, 0.5);
    color: white;
    text-decoration: none;
```

```
    font-size: 20px;
    font-family: Georgia, sans-serif;
    letter-spacing: 0.1em;
    border: 1px solid black;
}

form input[type="password"] {
    padding: 10px 20px;
    border-radius: 20px;
    background-color: rgba(77, 183, 186, 0.5);
    color: white;
    text-decoration: none;
    font-size: 20px;
    font-family: Georgia, sans-serif;
    letter-spacing: 0.1em;
    border: 1px solid black;
}

form label {
    font-size: 20px;
    font-family: Georgia, sans-serif;
    font-weight: normal;
    color: black;
}

form button {
    padding: 10px 20px;
    border-radius: 20px;
    background-color: #06B1BC;
    color: white;
    text-decoration: none;
    font-size: 20px;
    font-family: Georgia, sans-serif;
    letter-spacing: 0.1em;
    border: none;
}

.accordion {
    margin-top: 20px;
}

.accordion-item {
    border-bottom: 2px solid black;
}

.accordion-title {
    padding-left: 2%;
    cursor: pointer;
    display: flex;
```

```

    justify-content: space-between;
    align-items: center;
    font-family: Georgia, sans-serif;
    letter-spacing: 0.1em;
    font-size: 28px;
}

.accordion-content {
    padding: 10px;
    display: none;
    border: 1px solid black;
    border-radius: 5px;
    background-color: rgba(77, 183, 186, 0.5);
    font-size: 20px;
    font-family: Georgia, sans-serif;
    letter-spacing: 0.1em;
}

.arrow {
    transition: transform 0.3s ease;
}

.open {
    transform: rotate(90deg);
}

.accordion-item.active .accordion-content {
    display: block;
}

.new-projects p a {
    background-color: #06bc21;
    color: #06bc21;
    font-size: 40px;
    padding-top: 10%;
}

.group-info {
    display: grid;
    grid-template-columns: 2fr auto; /* Three columns: text, DOŁĄCZ, ZOBACZ
*/
    grid-gap: 10px; /* Adjust the gap between elements */
}

.buttons button {
    padding: 10px 20px;
    border-radius: 20px;
    background-color: #06B1BC;
    color: white;
}

```

```

text-decoration: none;
font-size: 16px;
font-family: Georgia, sans-serif;
letter-spacing: 0.1em;
border: none;
}

.buttons button:last-child {
margin-left: auto; /* Pushes the last button to the right */
}

```

JavaScript (Plik `index.js`)

```

function toggleMenu() {
    var menuDrawer = document.querySelector('.menu-drawer');
    if (menuDrawer.style.left === "-250px") {
        menuDrawer.style.left = "0";
    } else {
        menuDrawer.style.left = "-250px";
    }
}

function scrollToTop() {
    window.scrollTo({ top: 0, behavior: 'smooth' });
}

```

Błędy i obsługa wyjątków

- **404 Not Found:** Plik `404.html` zawiera stronę błędu 404.
- **500 Internal Server Error:** Plik `500.html` zawiera stronę błędu 500.

```

<!-- 404.html -->
<!DOCTYPE html>
<html lang="pl">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Błąd 404 - Nie znaleziono</title>
    <link rel="stylesheet" href="style2.css">
</head>
<body>
    <div class="content-container">
        <div class="main-panel">
            <h2>Błąd 404</h2>

```

```

        <h3>Strona nie została znaleziona</h3>
        <p>Przepraszamy, ale strona, której szukasz, nie istnieje.
Upewnij się, że adres URL jest poprawny lub wróć na <a
href="index.html">stronę główną</a>.</p>
    </div>
</div>
</body>
</html>

<!-- 500.html -->
<!DOCTYPE html>
<html lang="pl">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Błąd 500 - Wewnętrzny błąd serwera</title>
    <link rel="stylesheet" href="style2.css">
</head>
<body>
    <div class="content-container">
        <div class="main-panel">
            <h2>Błąd 500</h2>
            <h3>Wewnętrzny błąd serwera</h3>
            <p>Przepraszamy, ale wystąpił problem z serwerem. Prosimy
spróbować ponownie później lub wrócić na <a href="index.html">stronę
główną</a>.</p>
        </div>
    </div>
</body>
</html>

```

Podsumowanie

Ta dokumentacja przedstawia wszystkie istotne aspekty związane z instalacją, konfiguracją i uruchomieniem serwera oraz strony internetowej "Kulencjusz GameDev". W razie dalszych pytań lub problemów, prosimy o kontakt na adres email: wwfire@vp.pl.