

Rabu, 9 November 2022

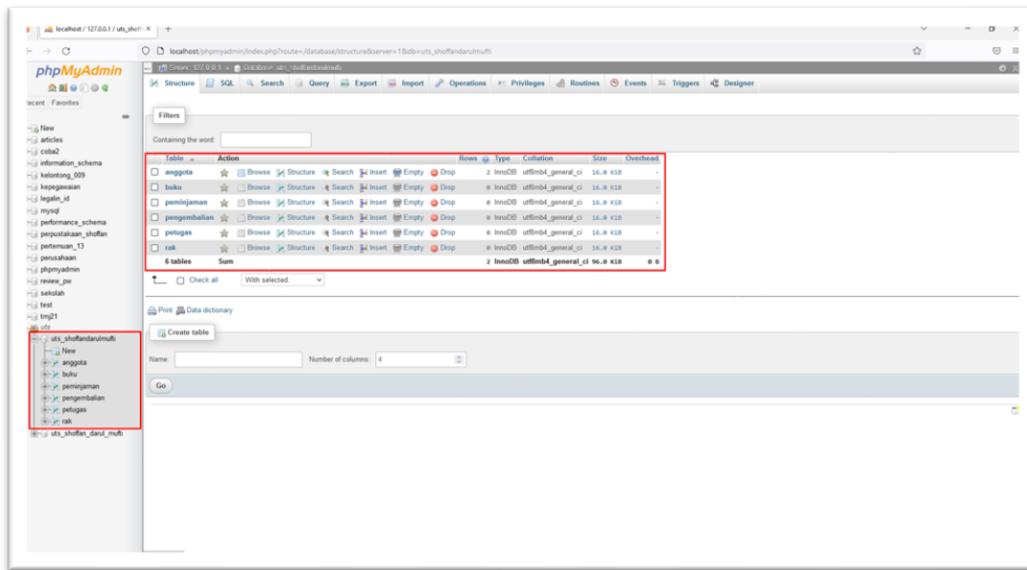
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NIM / Kelas : 2107421009 / TMJ 3  
Mata Kuliah : Pemrograman Web (UTS)

## **Daftar Isi**

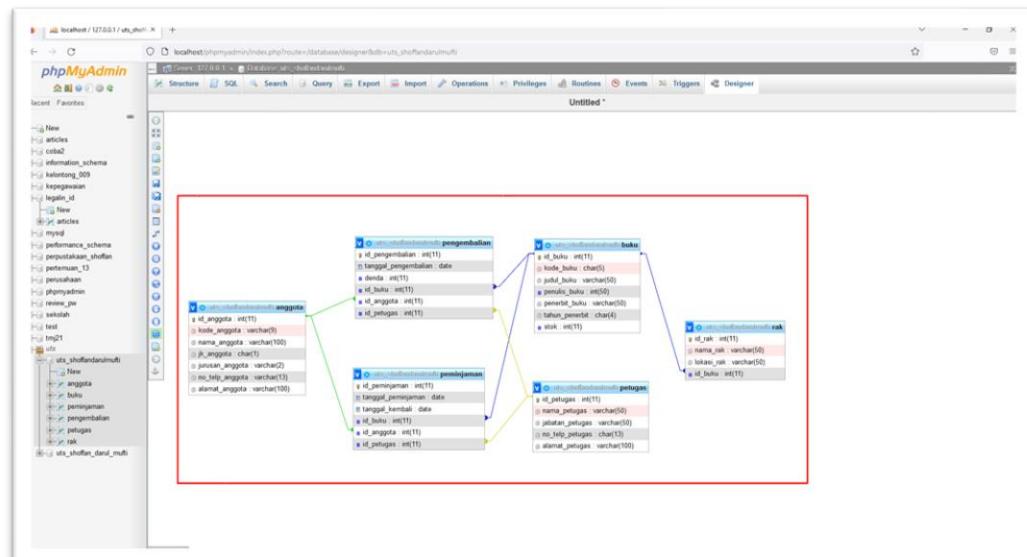
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## 1. Membuat Database

Database dibuat menggunakan MySQL berdasarkan soal yang diberikan, hasilnya seperti berikut:



Kemudian, saya membuat relasi dari tabel yang ada berdasarkan soal yang diberikan, hasilnya seperti berikut:



## 2. Membuat Landing Page

Setelah database terbuat, selanjutnya saya membuat landing page. Landing page dibuat menggunakan bootstrap 5.

Source Code HTML:



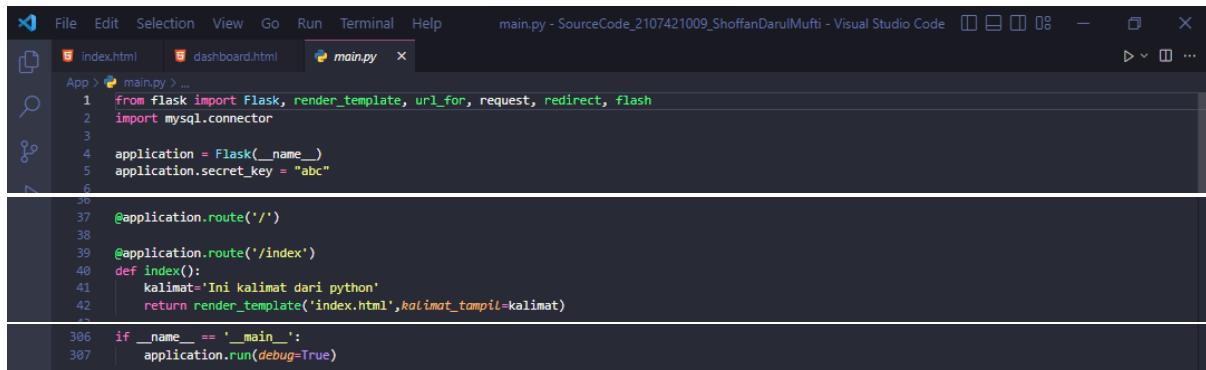
The screenshot shows the Visual Studio Code interface with the file 'index.html' open. The code is written in HTML and uses Bootstrap 5 classes. The code includes a header with navigation links, a masthead with a title and a digital library logo, and a sidebar with a quote. The code is color-coded for syntax highlighting, with tags in blue, attributes in green, and values in black.

```
<!DOCTYPE html>
<html Lang="en">
  <head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no" />
    <meta name="description" content="" />
    <meta name="author" content="" />
    <title>In Landing Page</title>
    <link rel="icon" type="image/x-icon" href="../static/favicon.ico" />
    <link href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.5.0/font/bootstrap-icons.css" rel="stylesheet" />
    <link href="https://fonts.googleapis.com/css2?family=Newsreader:ital,wght@0,600;1,600&display=swap" rel="stylesheet" />
    <link href="https://fonts.googleapis.com/css2?family=Mulish:ital,wght@0,300;0,500;0,600;0,700;1,300;1,500;1,600;1,700&display=swap" rel="stylesheet" />
    <link href="https://fonts.googleapis.com/css2?family=Kanit:ital,wght@0,400;1,400&display=swap" rel="stylesheet" />
    <link href="../static/css/styles-index.css" rel="stylesheet" />
  </head>
  <body id="page-top">
    <nav class="navbar navbar-expand-lg navbar-light fixed-top shadow-sm" id="mainNav">
      <div class="container px-5">
        <a class="navbar-brand fw-bold" href="#page-top">Perpustakaan TMJ</a>
        <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarResponsive" aria-expanded="false" aria-label="Toggle navigation">
          Menu
          <i class="bi-list"></i>
        </button>
        <div class="collapse navbar-collapse" id="navbarResponsive">
          <ul class="nav navbar-nav ms-auto me-4 my-3 my-lg-0">
            <li class="nav-item"><a class="nav-link me-lg-3" href="#features">Articles</a></li>
            <li class="nav-item"><a class="nav-link me-lg-3" href="#download">About</a></li>
          </ul>
          <button class="btn btn-rounded rounded-pill px-3 mb-2 mb-lg-0" data-bs-toggle="modal" data-bs-target="#feedbackModal">
            <span class="d-flex align-items-center">
              <i class="bi-door-open-fill me-2"></i>
              <span class="small">Login</span>
            </span>
          </button>
        </div>
      </div>
    </nav>
    <header class="masthead">
      <div class="container px-5">
        <div class="row gx-5 align-items-center">
          <div class="col-lg-6">
            <div class="mb-5 mb-lg-0 text-center text-lg-start">
              <h1 class="display-1 lh-1 mb-3">Membaca Jendela Dunia</h1>
              <p class="lead fw-normal text-muted mb-5">Selamat datang di Perpustakaan Online Teknik Multimedia dan Jaringan Politeknik Negeri Jakarta</p>
              <div class="d-flex flex-column flex-lg-row align-items-center">
                <a class="me-3 mb-4 mb-lg-0" href="#"></a>
                <a href="#"></a>
              </div>
            </div>
            <div class="col-lg-6">
              
            </div>
          </div>
        </div>
      </div>
    </header>
    <aside class="text-center bg-gradient-primary-to-secondary">
      <div class="container px-5">
        <div class="row gx-5 justify-content-center">
          <div class="col-xl-8">
            <div class="h2 fs-1 text-white mb-4">Buku dan pintu adalah hal yang sama. Kamu membukanya dan kamu pergi ke dunia lain.</div>
          </div>
        </div>
      </div>
    </aside>
    <section id="features">
      <div class="container px-5">
        <div class="row gx-5 align-items-center">
          <div class="col-lg-12 order-lg-1 mb-5 mb-lg-0">
            <div class="container-fluid px-5">
              <div class="h2 fs-1 mb-4 text-center">Layanan Kami</div>
              <div class="row gx-5">
                <div class="col-md-6 mb-5">
                  <div class="text-center">
                    <i class="bi-bookshelf icon-feature text-gradient d-block mb-3"></i>
                    <h3 class="font-alt">OPAC</h3>
                    <p class="text-muted mb-0">Online Public Access Catalog</p>
                  </div>
                </div>
                <div class="col-md-6 mb-5">
                  <div class="text-center">
                    <i class="bi-journal icon-feature text-gradient d-block mb-3"></i>
                    <h3 class="font-alt">KHS-KT</h3>
                    <p class="text-muted mb-0">Kumpulan Hasil Skripsi Kakak Tingkat</p>
                  </div>
                </div>
              </div>
            </div>
          </div>
        </div>
      </div>
    </section>
  </body>

```

```
File Edit Selection View Go Run Terminal Help index.html - SourceCode_2107421009_ShoffanDarulMufti - Visual Studio Code
index.html × insert.html
App > templates > index.html > head > title
89         <div class="row">
90             <div class="col-md-6 mb-5 mb-md-0">
91                 <div class="text-center">
92                     <i class="bi-people icon-feature text-gradient d-block mb-3"></i>
93                     <h3 class="font-alt">KOL-PTMJ</h3>
94                     <p class="text-muted mb-0">Keanggotaan Online Perpustakaan TMD</p>
95                 </div>
96             </div>
97             <div class="col-md-6">
98                 <div class="text-center">
99                     <i class="bi-laptop icon-feature text-gradient d-block mb-3"></i>
100                    <h3 class="font-alt">E-RES</h3>
101                    <p class="text-muted mb-0">Koleksi Digital Berlangganan</p>
102                </div>
103            </div>
104        </div>
105    </div>
106    </div>
107    </div>
108    </div>
109    </section>
110    <section class="bg-light">
111        <div class="container px-5">
112            <div class="row gx-5 align-items-center justify-content-center justify-content-lg-between">
113                <div class="col-12 col-lg-5">
114                    <h2 class="display-4 lh-1 mb-4">Tingkatkan Literasi Kamu, Tingkatkan Kemajuan Bangsa</h2>
115                </div>
116                <div class="col-sm-8 col-md-6">
117                    <div class="px-5 py-3 mb-0"></div>
118                </div>
119            </div>
120        </div>
121    </section>
122    <section class="cta">
123        <div class="cta-content">
124            <div class="container px-5">
125                <h2 class="text-white display-1 lh-1 mb-4">
126                    Ribuan buku
127                    <br />
128                    dimulai dari buku pertamamu
129                </h2>
130                <a class="btn btn-outline-light py-3 px-4 rounded-pill" href="https://startbootstrap.com/theme/new-age" target="_blank">Caril Buku</a>
131            </div>
132        </div>
133    </section>
134    <section class="bg-gradient-primary-to-secondary id="download">
135        <div class="container px-5">
136            <h2 class="text-center text-white font-alt mb-4">Get the TMD Library app now!</h2>
137            <div class="d-flex flex-column flex-lg-row align-items-center justify-content-center">
138                <a class="me-3 mb-2" href="#">![...](../static/img/app-store-badge.svg)&copy; Perpustakaan TMD 2022. All Rights Reserved.</div>
147                <div class="mb-2">Developed by Shoffan Darul Mufti | 2107421009</div>
148                <a href="#">Privacy</a>
149                <span class="mx-1">&middot;</span>
150                <a href="#">Terms</a>
151                <span class="mx-1">&middot;</span>
152                <a href="#">FAQ</a>
153            </div>
154        </div>
155    </footer>
156    <div class="modal fade" id="feedbackModal" tabindex="-1" aria-labelledby="feedbackModalLabel" aria-hidden="true">
157        <div class="modal-dialog modal-dialog-centered">
158            <div class="modal-content">
159                <div class="modal-header bg-gradient-primary-to-secondary p-4">
160                    <h5 class="modal-title font-alt text-white" id="feedbackModalLabel">Login to Dashboard</h5>
161                    <button class="btn-close btn-close-white" type="button" data-bs-dismiss="modal" aria-label="Close"></button>
162                </div>
163                <div class="modal-body border-0 p-4">
164                    <form id="contactForm" data-sb-form-api-token="API_TOKEN">
165                        <div class="form-floating mb-3">
166                            <input class="form-control" id="name" type="text" placeholder="username" data-sb-validations="required" value="sh.fanda" />
167                            <label for="name">Username</label>
168                            <div class="invalid-feedback" data-sb-feedback="name:required">Name is required.</div>
169                        </div>
170                        <div class="form-floating mb-3">
171                            <input class="form-control" id="pass" type="password" placeholder="*****" data-sb-validations="required,password" value="*****" />
172                            <label for="pass">Password</label>
173                            <div class="invalid-feedback" data-sb-feedback="pass:required">Password is required.</div>
174                            <div class="invalid-feedback" data-sb-feedback="pass:password">Password is not valid.</div>
175                        </div>
176                        <div class="d-none" id="submitSuccessMessage">
177                            <div class="text-center mb-3">
178                                <div class="fw-bolder">Form submission successful!</div>
179                                To activate this form, sign up at
180                                <br />
181                                <a href="https://startbootstrap.com/solution/contact-forms">https://startbootstrap.com/solution/contact-forms</a>
182                            </div>
183                        </div>
184                        <div class="d-none" id="submitErrorMessage"><div class="text-center text-danger mb-3">Error sending message!</div></div>
185                        <div class="d-grid"><a class="btn btn-primary rounded-pill btn-lg" id="submitButton" href="{{ url_for('dashboard') }}>Submit</a></div>
186                    </form>
187                </div>
188            </div>
189        </div>
190    </div>
191    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js"></script>
192    <script src="../static/js/scripts-index.js"></script>
193    <script src="https://cdn.startbootstrap.com/sb-forms-latest.js"></script>
194    </body>
195 </html>
```

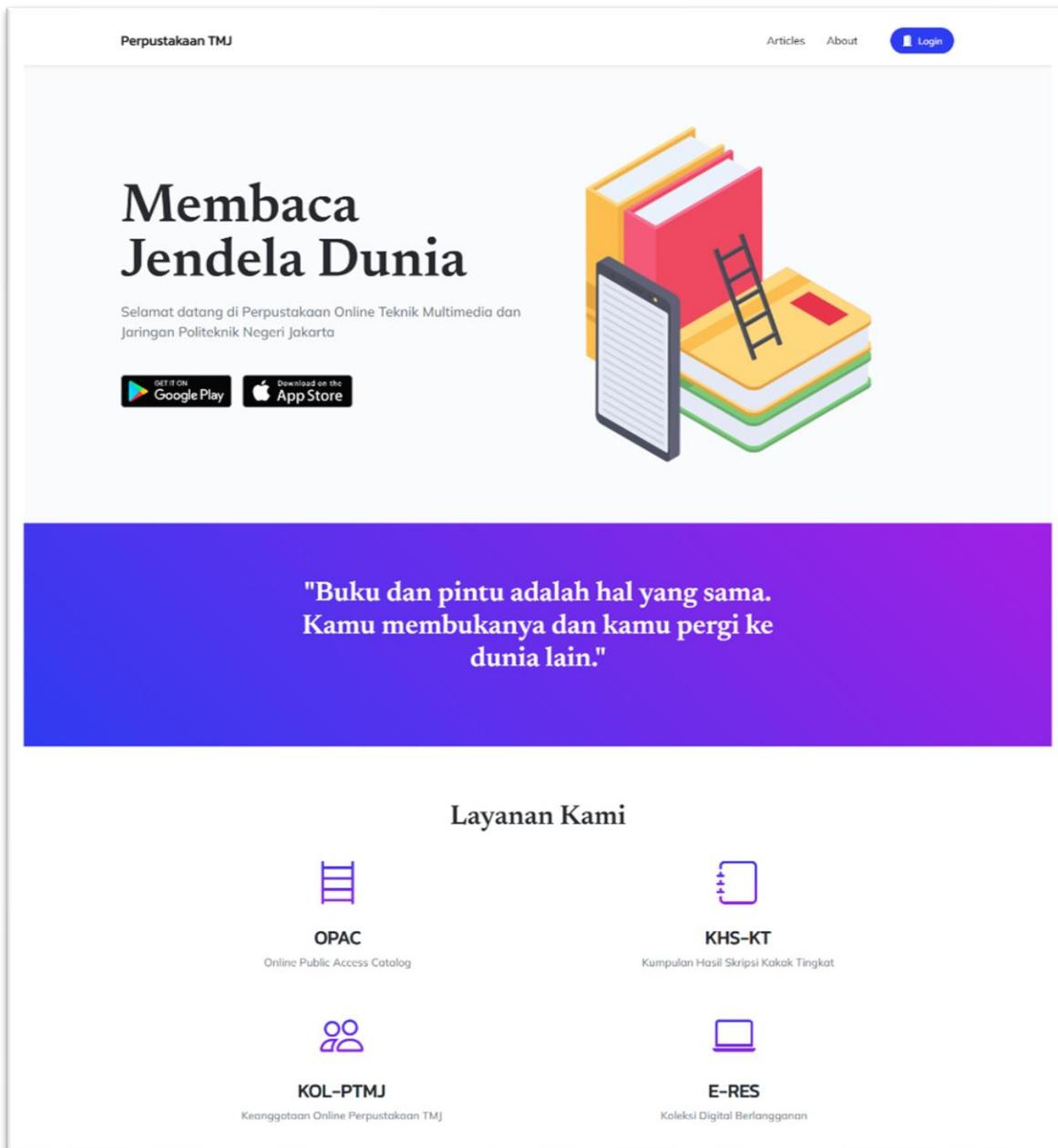
## Source Code Python:



```
File Edit Selection View Go Run Terminal Help main.py - SourceCode_2107421009_ShoffanDarulMufti - Visual Studio Code index.html dashboard.html main.py

App > main.py > ...
1  from flask import Flask, render_template, url_for, request, redirect, flash
2  import mysql.connector
3
4  application = Flask(__name__)
5  application.secret_key = "abc"
6
7
8  @application.route('/')
9
10 @application.route('/index')
11 def index():
12     kalimat='Ini kalimat dari python'
13     return render_template('index.html',kalimat_tampil=kalimat)
14
15
16 if __name__ == '__main__':
17     application.run(debug=True)
```

Hasilnya seperti berikut:



The screenshot shows the homepage of the Perpustakaan TMJ (Library TMJ) website. At the top, there is a navigation bar with links for 'Articles', 'About', and 'Login'. Below the navigation bar, the title 'Perpustakaan TMJ' is displayed. The main content area features a large graphic of books and a tablet. A quote in a purple box reads: "Buku dan pintu adalah hal yang sama. Kamu membukanya dan kamu pergi ke dunia lain." Below this, there is a section titled 'Layanan Kami' (Our Services) featuring icons and descriptions for 'OPAC', 'KHS-KT', 'KOL-PTMJ', and 'E-RES'.

Perpustakaan TMJ

Articles About Login

# Membaca Jendela Dunia

Selamat datang di Perpustakaan Online Teknik Multimedia dan Jaringan Politeknik Negeri Jakarta

GET IT ON Google Play Download on the App Store



"Buku dan pintu adalah hal yang sama.  
Kamu membukanya dan kamu pergi ke  
dunia lain."

## Layanan Kami

 OPAC  
Online Public Access Catalog

 KHS-KT  
Kumpulan Hasil Skripsi Kakak Tingkat

 KOL-PTMJ  
Keanggotaan Online Perpustakaan TMJ

 E-RES  
Koleksi Digital Berlangganan

Tingkatkan  
Literasi Kamu,  
Tingkatkan  
Kemajuan Bangsa



Ribuan buku  
dimulai dari buku pertamamu

Cari Buku

Get the TMJ Library app now!



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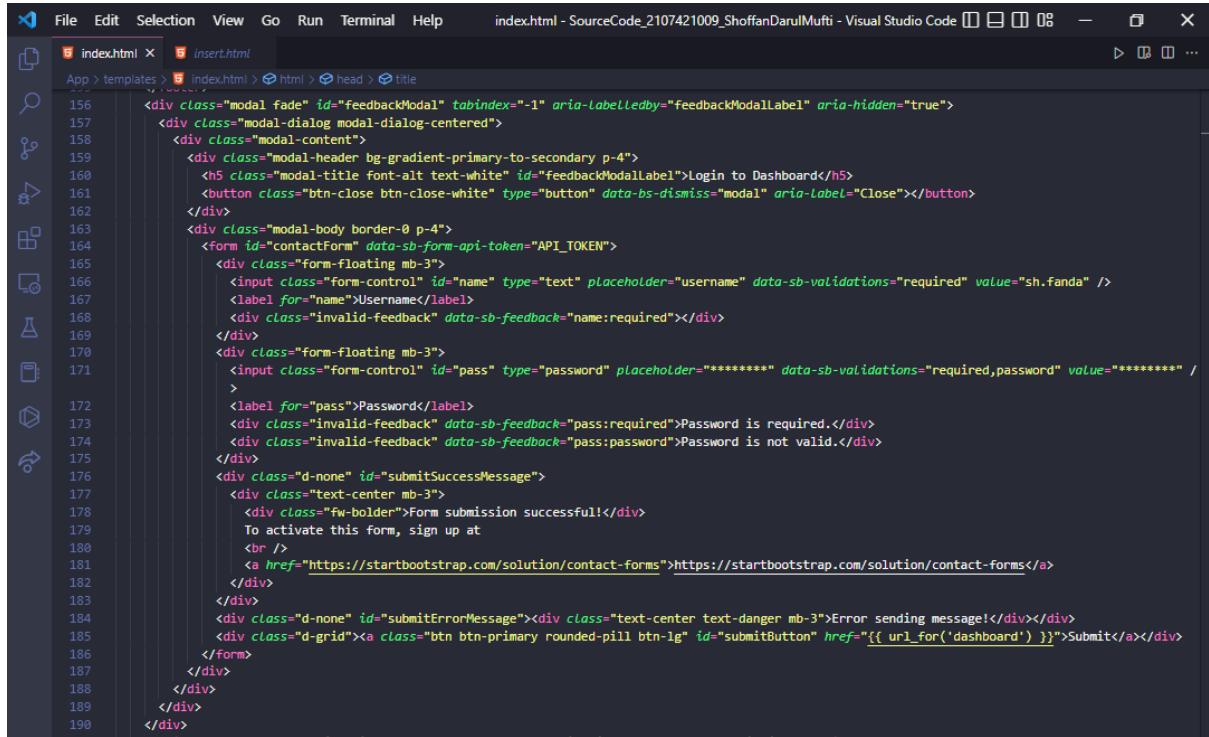
Developed by Shoffan Darul Mufti | 2107421009

[Privacy](#) · [Terms](#) · [FAQ](#)

### 3. Membuat fitur login

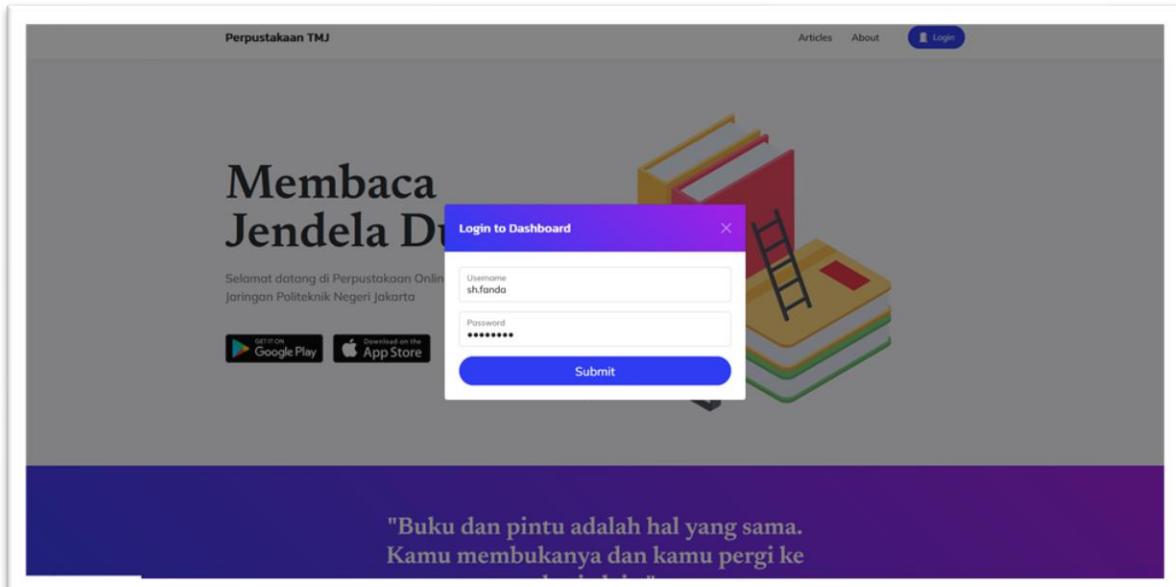
Setelah dashboard selesai, langkah selanjutnya membuat fitur login untuk masuk ke dashboard. Login juga menggunakan bootstrap.

Source Code:



```
<div class="modal fade" id="feedbackModal" tabindex="-1" aria-labelledby="FeedbackModalLabel" aria-hidden="true">
  <div class="modal-dialog modal-dialog-centered">
    <div class="modal-content">
      <div class="modal-header bg-gradient-primary-to-secondary p-4">
        <h5 class="modal-title font-ait text-white" id="feedbackModalLabel">Login to Dashboard</h5>
        <button class="btn-close btn-close-white" type="button" data-bs-dismiss="modal" aria-label="Close"></button>
      </div>
      <div class="modal-body border-0 p-4">
        <form id="contactForm" data-sb-form-api-token="API_TOKEN">
          <div class="form-floating mb-3">
            <input class="form-control" id="name" type="text" placeholder="username" data-sb-validations="required" value="sh.fanda" />
            <label for="name">Username</label>
            <div class="invalid-feedback" data-sb-feedback="name:required">Name is required.</div>
          </div>
          <div class="form-floating mb-3">
            <input class="form-control" id="pass" type="password" placeholder="*****" data-sb-validations="required,password" value="*****" />
            <label for="pass">Password</label>
            <div class="invalid-feedback" data-sb-feedback="pass:required">Password is required.</div>
            <div class="invalid-feedback" data-sb-feedback="pass:password">Password is not valid.</div>
          </div>
          <div class="d-none" id="submitSuccessMessage">
            <div class="text-center mb-3">
              <div class="fw-bolder">Form submission successful!</div>
              To activate this form, sign up at
              <br />
              <a href="https://startbootstrap.com/solution/contact-forms">https://startbootstrap.com/solution/contact-forms</a>
            </div>
          </div>
          <div class="d-none" id="submitErrorMessage"><div class="text-center text-danger mb-3">Error sending message!</div></div>
          <div class="d-grid"><a class="btn btn-primary rounded-pill btn-lg" id="submitButton" href="{{ url_for('dashboard') }}>Submit</a></div>
        </form>
      </div>
    </div>
  </div>
</div>
```

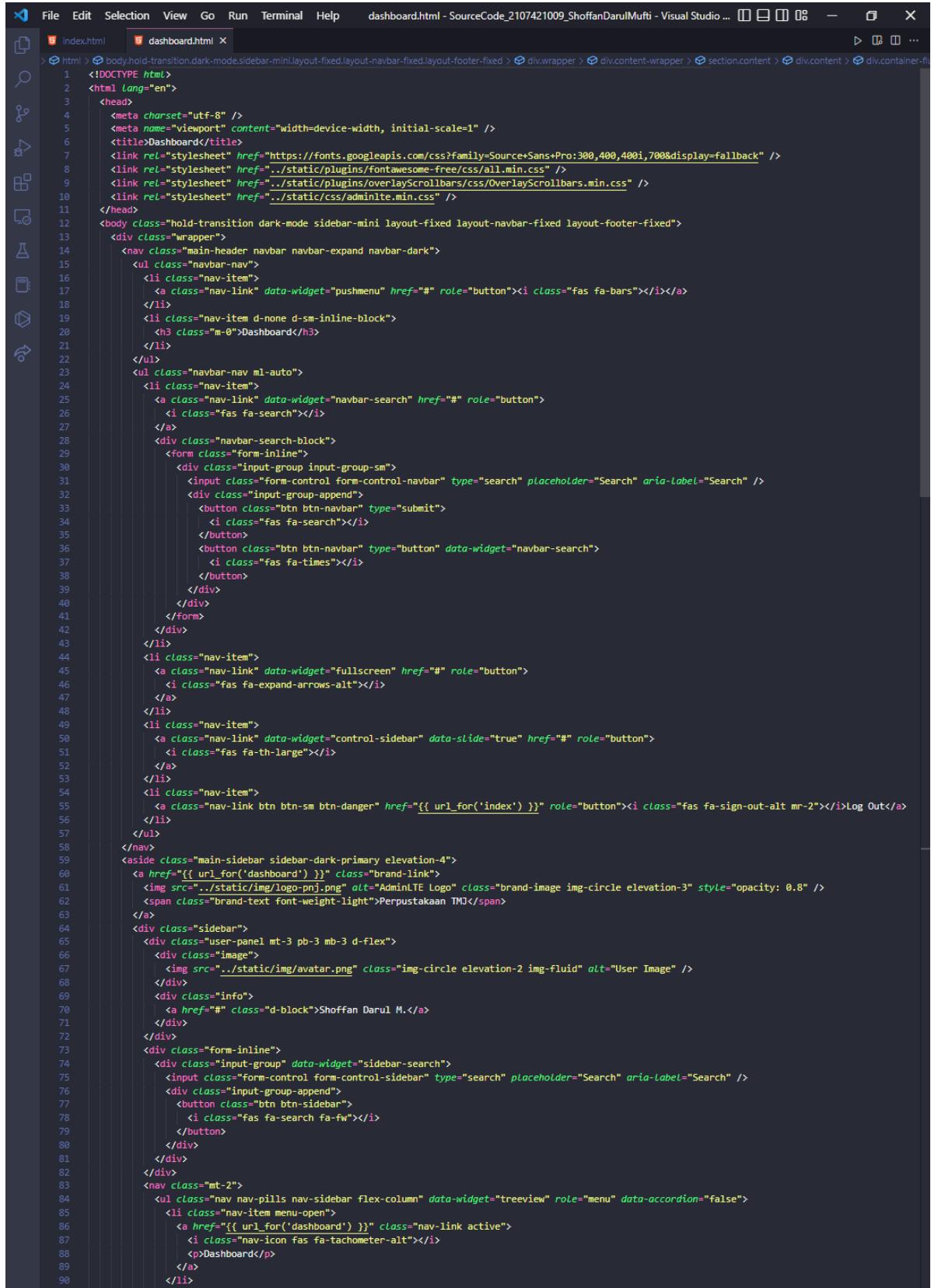
Hasilnya seperti berikut:



## 4. Membuat Dashboard

Selanjutnya saya membuat dashboard yang akan menampilkan data dari tabel-tabel yang sudah dibuat. Dashboard dibuat dari template AdminLTE.

Source Code:



```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <title>Dashboard</title>
    <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700&display=fallback" />
    <link rel="stylesheet" href="../static/plugins/fontawesome-free/css/all.min.css" />
    <link rel="stylesheet" href="../static/plugins/overlayScrollbars/css/OverlayScrollbars.min.css" />
    <link rel="stylesheet" href="../static/css/adminlte.min.css" />
  </head>
  <body class="hold-transition dark-mode sidebar-mini layout-fixed layout-navbar-fixed layout-footer-fixed">
    <div class="wrapper">
      <nav class="main-header navbar navbar-expand navbar-dark">
        <ul class="navbar-nav">
          <li class="nav-item">
            <a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
          </li>
          <li class="nav-item d-none d-sm-inline-block">
            <h3 class="m-0">Dashboard</h3>
          </li>
        </ul>
        <ul class="navbar-nav ml-auto">
          <li class="nav-item">
            <a class="nav-link" data-widget="navbar-search" href="#" role="button">
              <i class="fas fa-search"></i>
            </a>
            <div class="navbar-search-block">
              <form class="form-inline">
                <div class="input-group input-group-sm">
                  <input class="form-control form-control-navbar" type="search" placeholder="Search" aria-label="Search" />
                  <div class="input-group-append">
                    <button class="btn btn-navbar" type="submit">
                      <i class="fas fa-search"></i>
                    </button>
                    <button class="btn btn-navbar" type="button" data-widget="navbar-search">
                      <i class="fas fa-times"></i>
                    </button>
                  </div>
                </div>
                </form>
              </div>
            </li>
            <li class="nav-item">
              <a class="nav-link" data-widget="fullscreen" href="#" role="button">
                <i class="fas fa-expand-arrows-alt"></i>
              </a>
            </li>
            <li class="nav-item">
              <a class="nav-link" data-widget="control-sidebar" data-slide="true" href="#" role="button">
                <i class="fas fa-th-large"></i>
              </a>
            </li>
            <li class="nav-item">
              <a class="nav-link btn btn-sm btn-danger" href="{% url_for('index') }" role="button"><i class="fas fa-sign-out-alt mr-2"></i>Log Out</a>
            </li>
          </ul>
        </nav>
        <aside class="main-sidebar sidebar-dark-primary elevation-4">
          <a href="{% url_for('dashboard') }" class="brand-link">
            
            <span class="brand-text font-weight-light">Perpustakaan TMO</span>
          </a>
          <div class="sidebar">
            <div class="user-panel mt-3 pb-3 mb-3 d-flex">
              <div class="image">
                
              </div>
              <div class="info">
                <a href="#" class="d-block">Shoffan Darul M.</a>
              </div>
            </div>
            <div class="form-inline">
              <div class="input-group" data-widget="sidebar-search">
                <input class="form-control form-control-sidebar" type="search" placeholder="Search" aria-label="Search" />
                <div class="input-group-append">
                  <button class="btn btn-sidebar">
                    <i class="fas fa-search fa-fw"></i>
                  </button>
                </div>
              </div>
            </div>
            <nav class="mt-2">
              <ul class="nav nav-pills nav-sidebar flex-column" data-widget="treeview" role="menu" data-accordion="false">
                <li class="nav-item menu-open">
                  <a href="{% url_for('dashboard') }" class="nav-link active">
                    <i class="nav-icon fas fa-tachometer-alt"></i>
                    <p>Dashboard</p>
                  </a>
                </li>
              </ul>
            </nav>
          </div>
        </aside>
      </div>
    </body>
  </html>
```

```
File Edit Selection View Go Run Terminal Help dashboard.html - SourceCode_2107421009_ShoffanDarulMufti - Visual Studio ...
index.html dashboard.html
body.hold-transition.dark-mode.sidebar-mini.layout-fixed.layout-navbar-fixed.layout-footer-fixed > div.wrapper > div.content-wrapper > section.content > div.content > div.container-fl
91      <li class="nav-item">
92        <a href="{{ url_for('peminjaman') }}" class="nav-link">
93          <i class="nav-icon fas fa-arrow-alt-circle-up"></i>
94          <p>Peminjaman</p>
95        </a>
96      </li>
97      <li class="nav-item">
98        <a href="{{ url_for('pengembalian') }}" class="nav-link">
99          <i class="nav-icon fas fa-arrow-alt-circle-down"></i>
100         <p>Pengembalian</p>
101       </a>
102     </li>
103     <li class="nav-item">
104       <a href="{{ url_for('buku') }}" class="nav-link">
105         <i class="nav-icon fas fa-book"></i>
106         <p>Tabel Buku</p>
107       </a>
108     </li>
109     <li class="nav-item">
110       <a href="{{ url_for('rak') }}" class="nav-link">
111         <i class="nav-icon fas fa-bookmark"></i>
112         <p>Tabel Rak</p>
113       </a>
114     </li>
115     <li class="nav-item">
116       <a href="{{ url_for('anggota') }}" class="nav-link">
117         <i class="nav-icon fas fa-user"></i>
118         <p>Tabel Anggota</p>
119       </a>
120     </li>
121     <li class="nav-item">
122       <a href="{{ url_for('petugas') }}" class="nav-link">
123         <i class="nav-icon fas fa-user"></i>
124         <p>Tabel Petugas</p>
125       </a>
126     </li>
127   </ul>
128 </nav>
129 </div>
130 </aside>
131 <div class="content-wrapper">
132   <section class="content-header">
133     <div class="container-fluid">
134       <div class="row mb-2"></div>
135     </div>
136   </section>
137   <section class="content">
138     <div class="container-fluid">
139       <div class="row">
140         <div class="col-12">
141           <h5 class="pl-1">At a Glance</h5>
142         </div>
143         <div class="col-12 col-sm-6 col-md-3">
144           <div class="info-box">
145             <span class="info-box-icon bg-info elevation-1"><i class="fas fa-cog"></i></span>
146             <div class="info-box-content">
147               <span class="info-box-text">Server Traffic</span>
148               <span class="info-box-number">
149                 33
150                 <small>X</small>
151               </span>
152             </div>
153           </div>
154         </div>
155         <div class="col-12 col-sm-6 col-md-3">
156           <div class="info-box mb-3">
157             <span class="info-box-icon bg-danger elevation-1"><i class="fas fa-book"></i></span>
158             <div class="info-box-content">
159               <span class="info-box-text">Books</span>
160               <span class="info-box-number">41,410</span>
161             </div>
162           </div>
163         </div>
164         <div class="clearfix hidden-md-up"></div>
165         <div class="col-12 col-sm-6 col-md-3">
166           <div class="info-box mb-3">
167             <span class="info-box-icon bg-success elevation-1"><i class="fas fa-solid fa-newspaper"></i></span>
168             <div class="info-box-content">
169               <span class="info-box-text">Article Post</span>
170               <span class="info-box-number">760</span>
171             </div>
172           </div>
173         </div>
174         <div class="col-12 col-sm-6 col-md-3">
175           <div class="info-box mb-3">
176             <span class="info-box-icon bg-warning elevation-1"><i class="fas fa-users"></i></span>
177             <div class="info-box-content">
178               <span class="info-box-text">New Members</span>
179               <span class="info-box-number">2,000</span>
180             </div>
181           </div>
182         </div>
183       </div>
184     </div>
185   <div class="content">
186     <div class="container-fluid">
187       <div class="row">
188         <div class="col-lg-6">
189           <div class="card">
190             <div class="card-header">
191               <h3>Dashboard <small>At a Glance</small></h3>
192             </div>
193             <div class="card-body">
194               <div class="row">
195                 <div class="col-6">
196                   <div class="info-box">
197                     <span class="info-box-icon bg-primary elevation-1"><i class="fas fa-database"></i></span>
198                     <div class="info-box-content">
199                       <span class="info-box-text">Database</span>
200                       <span class="info-box-number">100</span>
201                     </div>
202                   </div>
203                 </div>
204                 <div class="col-6">
205                   <div class="info-box">
206                     <span class="info-box-icon bg-secondary elevation-1"><i class="fas fa-tablet"></i></span>
207                     <div class="info-box-content">
208                       <span class="info-box-text">Tablet</span>
209                       <span class="info-box-number">50</span>
210                     </div>
211                   </div>
212                 </div>
213               </div>
214             </div>
215           </div>
216         </div>
217       </div>
218     </div>
219   </div>
220 </div>
```

```
File Edit Selection View Go Run Terminal Help dashboard.html - SourceCode_2107421009_ShoffanDarulMufti - Visual Studio ...
```

```
index.html dashboard.html
```

```
App > templates > dashboard.html > ...
```

```
191             <h5 class="m-0">Welcome!</h5>
192         </div>
193         <div class="card-body">
194             <p class="card-text">You can customize Perpustakaan TM website from here</p>
195             <a href="#" class="btn btn-primary">Customize Your Site</a>
196         </div>
197     </div>
198 </div>
199 <div class="col-lg-6">
200     <div class="card">
201         <div class="card-body">
202             <h1 class="card-title">Shortcut</h1>
203             <p class="card-text">Quick access to manage your site</p>
204             <a href="#" class="card-link">Add New Post</a>
205             <a href="#" class="card-link">Edit Post</a>
206             <a href="#" class="card-link">Remove Post</a>
207             <a href="#" class="card-link">View Your Site</a>
208             <p class="card-text"></p>
209             <a href="#" class="card-link">Manage Widget</a>
210             <a href="#" class="card-link">Turn comments on or off</a>
211         </div>
212     </div>
213 </div>
214 </div>
215 </div>
216 </div>
217 <div class="container-fluid">
218     <div class="row">
219         <div class="col-sm-6">
220             <h3 class="m-0 pt-3 pb-3">Timeline</h3>
221         </div>
222         <div class="col-md-12">
223             <div class="timeline">
224                 <div class="time-label">
225                     <span class="bg-red">09 Nov. 2022</span>
226                 </div>
227                 <div>
228                     <i class="fas fa-envelope bg-blue"></i>
229                     <div class="timeline-item">
230                         <span class="time"><i class="fas fa-clock"></i> 12:05</span>
231                         <h3 class="timeline-header"><a href="#">Support Team</a> sent you an email</h3>
232                         <div class="timeline-body">Dear Shoffan, we found a security breach last night and we have recovered the damage. If you found any
233                         miscellaneous, please contact us. Thank You.</div>
234                         <div class="timeline-footer">
235                             <a class="btn btn-primary btn-sm">Read more</a>
236                             <a class="btn btn-danger btn-sm">Delete</a>
237                         </div>
238                     </div>
239                 <div>
240                     <i class="fas fa-user bg-green"></i>
241                     <div class="timeline-item">
242                         <span class="time"><i class="fas fa-clock"></i> 5 mins ago</span>
243                         <h3 class="timeline-header no-border"><a href="#">Sarah Young</a> meminjam buku, "Dasar-Dasar Pemrograman Web"</h3>
244                     </div>
245                 </div>
246                 <div>
247                     <i class="fas fa-comments bg-yellow"></i>
248                     <div class="timeline-item">
249                         <span class="time"><i class="fas fa-clock"></i> 27 mins ago</span>
250                         <h3 class="timeline-header"><a href="#">Jay White</a> commented on your post "Sejarah Buku"</h3>
251                         <div class="timeline-body">Sangat bagus! Sangat mengedukasi! Lanjutkan!</div>
252                         <div class="timeline-footer">
253                             <a class="btn btn-warning btn-sm">View comment</a>
254                         </div>
255                     </div>
256                 </div>
257                 <div>
258                     <i class="fas fa-clock bg-gray"></i>
259                 </div>
260             </div>
261         </div>
262     </div>
263 </div>
264 </section>
265 </div>
266 <aside class="control-sidebar control-sidebar-dark"></aside>
267 <footer class="main-footer">
268     <strong>Copyright &copy; 2022 <a href="{{ url_for('index') }}>Shoffan Darul Mufti</a>.</strong>
269     All rights reserved.
270     <div class="float-right d-none d-sm-inline-block"><b>Version</b> 1.0</div>
271 </footer>
272 <script src="../static/plugins/jquery/jquery.min.js"></script>
273 <script src="../static/plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
274 <script src="../static/plugins/overlayScrollbars/js/jquery.overlayScrollbars.min.js"></script>
275 <script src="../static/js/adminlte.js"></script>
276 <script src="../static/plugins/jquery-mousewheel/jquery.mousewheel.js"></script>
277 <script src="../static/plugins/raphael/raphael.min.js"></script>
278 <script src="../static/plugins/jquery-mapael/jquery.mapael.min.js"></script>
279 <script src="../static/plugins/jquery-mapael/maps/usa_states.min.js"></script>
280 <script src="../static/plugins/chart.js/Chart.min.js"></script>
281 <script src="../static/js/pages/dashboard2.js"></script>
282 </div>
283 </body>
284 </html>
```

Source Code Python:

```
43
44     @application.route('/dashboard')
45     def dashboard():
46         return render_template('dashboard.html')
47
```

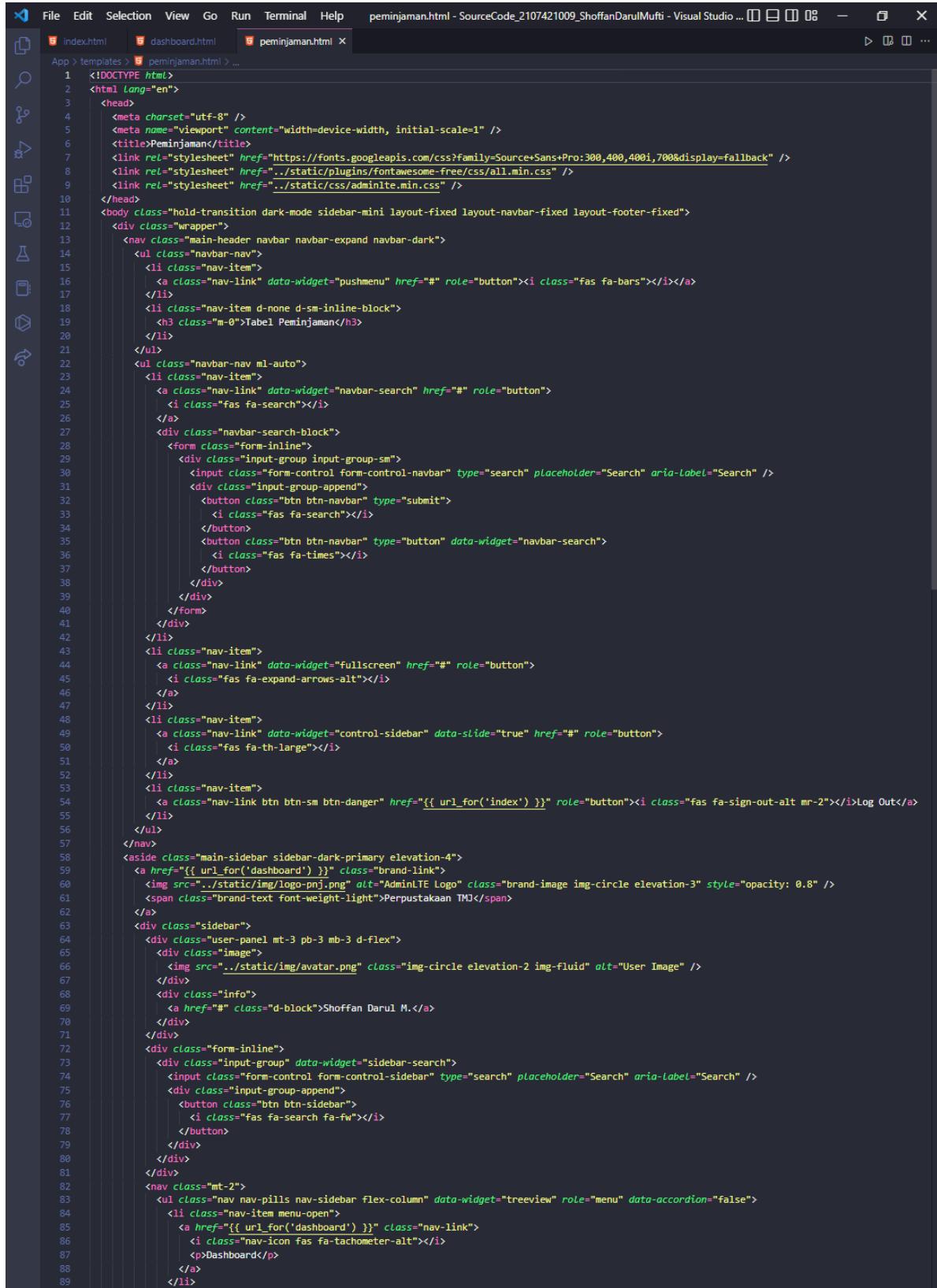
Hasilnya seperti berikut:

The screenshot shows a web browser window with a dark-themed dashboard. The title bar says "Dashboard" and the address bar shows "localhost:5000/dashboard". The dashboard has a sidebar on the left with a user profile picture and name "Shoffan Darul M.", and a list of navigation items: "Search", "Dashboard" (which is highlighted in blue), "Peminjaman", "Pengembalian", "Tabel Buku", "Tabel Rak", "Tabel Anggota", and "Tabel Petugas". The main content area has a header "≡ Dashboard" and a section titled "At a Glance" with four cards: "Server Traffic" (33%), "Books" (41,410), "Article Post" (760), and "New Members" (2,000). Below this is a "Welcome!" section with a button "Customize Your Site" and a "Shortcut" section with links "Add New Post", "Edit Post", "Remove Post", "View Your Site", "Manage Widget", and "Turn comments on or off". At the bottom is a "Timeline" section showing a recent event: "Support Team sent you an email" on "09 Nov. 2022" at "12:05". The footer includes copyright information "Copyright © 2022 Shoffan Darul Mufti. All rights reserved." and "Version 1.0".

## 5. Membuat Tabel Peminjaman

Di dalam dashboard, ada menu Peminjaman. Menu peminjaman berisikan tabel daftar peminjaman yang ada.

Source Code HTML:



The screenshot shows the Visual Studio Code interface with the file 'peminjaman.html' open. The code is a template for a sidebar navigation page. It includes a header with a search bar, a main sidebar with user information, and a navigation menu for managing loans. The code uses Bootstrap classes and Font Awesome icons.

```
1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <meta charset="utf-8" />
5     <meta name="viewport" content="width=device-width, initial-scale=1" />
6     <title>Peminjaman</title>
7     <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700&display=fallback" />
8     <link rel="stylesheet" href="../../static/plugins/fontawesome-free/css/all.min.css" />
9     <link rel="stylesheet" href="../../static/css/adminlte.min.css" />
10    </head>
11    <body class="hold-transition dark-mode sidebar-mini layout-fixed layout-navbar-fixed layout-footer-fixed">
12      <div class="wrapper">
13        <nav class="main-header navbar navbar-expand navbar-dark">
14          <ul class="navbar-nav">
15            <li class="nav-item">
16              <a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
17            </li>
18            <li class="nav-item d-none d-sm-inline-block">
19              <h3 class="m-0">Tabel Peminjaman</h3>
20            </li>
21          </ul>
22          <ul class="navbar-nav ml-auto">
23            <li class="nav-item">
24              <a class="nav-link" data-widget="navbar-search" href="#" role="button">
25                <i class="fas fa-search"></i>
26              </a>
27              <div class="navbar-search-block">
28                <form class="form-inline">
29                  <div class="input-group input-group-sm">
30                    <input class="form-control form-control-navbar" type="search" placeholder="Search" aria-label="Search" />
31                    <div class="input-group-append">
32                      <button class="btn btn-navbar" type="submit">
33                        <i class="fas fa-search"></i>
34                      </button>
35                      <button class="btn btn-navbar" type="button" data-widget="navbar-search">
36                        <i class="fas fa-times"></i>
37                      </button>
38                    </div>
39                  </div>
40                </form>
41              </div>
42            </li>
43            <li class="nav-item">
44              <a class="nav-link" data-widget="fullscreen" href="#" role="button">
45                <i class="fas fa-expand-arrows-alt"></i>
46              </a>
47            </li>
48            <li class="nav-item">
49              <a class="nav-link" data-widget="control-sidebar" data-slide="true" href="#" role="button">
50                <i class="fas fa-th-large"></i>
51              </a>
52            </li>
53            <li class="nav-item">
54              <a class="nav-link btn btn-sm btn-danger" href="{{ url_for('index') }}" role="button"><i class="fas fa-sign-out-alt mr-2"></i>Log Out</a>
55            </li>
56          </ul>
57        </nav>
58        <aside class="main-sidebar sidebar-dark-primary elevation-4">
59          <a href="{{ url_for('dashboard') }}" class="brand-link">
60            
61            <span class="brand-text font-weight-light">Perpustakaan TMJ</span>
62          </a>
63          <div class="sidebar">
64            <div class="user-panel mt-3 pb-3 mb-3 d-flex">
65              <div class="image">
66                
67              </div>
68              <div class="info">
69                <a href="#" class="d-block">Shoffan Darul M.</a>
70              </div>
71            </div>
72            <div class="form-inline">
73              <div class="input-group" data-widget="sidebar-search">
74                <input class="form-control form-control-sidebar" type="search" placeholder="Search" aria-label="Search" />
75                <div class="input-group-append">
76                  <button class="btn btn-sidebar">
77                    <i class="fas fa-search fa-fw"></i>
78                  </button>
79                </div>
80              </div>
81            </div>
82            <nav class="mt-2">
83              <ul class="nav nav-pills nav-sidebar flex-column" data-widget="treeview" role="menu" data-accordion="false">
84                <li class="nav-item menu-open">
85                  <a href="{{ url_for('dashboard') }}" class="nav-link">
86                    <i class="nav-icon fas fa-tachometer-alt"></i>
87                    <p>Dashboard</p>
88                  </a>
89                </li>
90              </ul>
91            </nav>
92          </div>
93        </aside>
94      </div>
95    </body>
96  </html>
```

```
File Edit Selection View Go Run Terminal Help peminjaman.html - SourceCode_2107421009_ShoffanDarulMufti - Visual Studio ... □ □ □ □ □ X
index.html dashboard.html peminjaman.html
App > templates > peminjaman.html ...
90     <li class="nav-item">
91         <a href="{{ url_for('peminjaman') }}" class="nav-link active">
92             <i class="nav-icon fas fa-arrow-alt-circle-up"></i>
93             <p>Peminjaman</p>
94         </a>
95     </li>
96     <li class="nav-item">
97         <a href="{{ url_for('pengembalian') }}" class="nav-link">
98             <i class="nav-icon fas fa-arrow-alt-circle-down"></i>
99             <p>Pengembalian</p>
100        </a>
101    </li>
102    <li class="nav-item">
103        <a href="{{ url_for('buku') }}" class="nav-link">
104            <i class="nav-icon fas fa-book"></i>
105            <p>Tabel Buku</p>
106        </a>
107    </li>
108    <li class="nav-item">
109        <a href="{{ url_for('rak') }}" class="nav-link">
110            <i class="nav-icon fas fa-bookmark"></i>
111            <p>Tabel Rak</p>
112        </a>
113    </li>
114    <li class="nav-item">
115        <a href="{{ url_for('anggota') }}" class="nav-link">
116            <i class="nav-icon fas fa-user"></i>
117            <p>Tabel Anggota</p>
118        </a>
119    </li>
120    <li class="nav-item">
121        <a href="{{ url_for('petugas') }}" class="nav-link">
122            <i class="nav-icon fas fa-user"></i>
123            <p>Tabel Petugas</p>
124        </a>
125    </li>
126 </ul>
127 </nav>
128 </div>
129 </aside>
130 <div class="content-wrapper">
131     <section class="content-header">
132         <div class="container-fluid">
133             <div class="row mb-2"></div>
134         </div>
135     </section>
136     <section class="content">
137         <div class="alert alert-success">
138             <a href="#" class="close text-white" data-dismiss="alert" aria-label="close">&times;</a>
139             {% with messages = get_flashed_messages() %}
140                 {% if messages %} {% for message in messages %} {{ message }} {% endfor %} {% endif %}
141                 {% endif %}
142         </div>
143         <div class="card">
144             <div class="card-header">
145                 <a class="btn btn-success btn-sm" href="{{ 'peminjamanAdd' }}>
146                     <i class="fas fa-plus-circle"></i>
147                     Tambah Peminjaman Baru
148                 </a>
149             <div class="card-tools">
150                 <button type="button" class="btn btn-tool" data-card-widget="collapse" title="Collapse">
151                     <i class="fas fa-minus"></i>
152                 </button>
153                 <button type="button" class="btn btn-tool" data-card-widget="remove" title="Remove">
154                     <i class="fas fa-times"></i>
155                 </button>
156             </div>
157             <div class="card-body p-0">
158                 <table class="table table-striped projects text-center">
159                     <thead>
160                         <tr>
161                             <th>ID Peminjaman</th>
162                             <th>Tanggal Pinjam</th>
163                             <th>Tanggal Kembali</th>
164                             <th>ID Buku</th>
165                             <th>ID Anggota</th>
166                             <th>ID Petugas</th>
167                             <th>Aksi</th>
168                         </tr>
169                     <tbody>
170                         {% for item in kalimat %}
171                         <tr>
172                             <td>
173                                 <p href="{{ item }}>{{ item[0] }}</p>
174                             </td>
175                             <td>
176                                 <p href="{{ item }}>{{ item[1] }}</p>
177                             </td>
178                             <td>
179                                 <p href="{{ item }}>{{ item[2] }}</p>
180                             </td>
181                             <td>
182                                 <p href="{{ item }}>{{ item[3] }}</p>
183                             </td>
184                             <td>
185                                 <p href="{{ item }}>{{ item[4] }}</p>
186                             </td>
187                             <td>
188                                 <p href="{{ item }}>{{ item[5] }}</p>
189                             </td>

```

```

190         <td class="project-actions">
191             <a class="btn btn-info btn-sm" href="peminjamanUpdate/{{ item[0] }}">
192                 <i class="fas fa-pencil-alt"></i>
193                 Edit
194             </a>
195             <a class="btn btn-danger btn-sm" href="peminjamanDelete/{{ item[0] }}" onclick="return confirm('Are you sure you want to delete?')">
196                 <i class="fas fa-trash"></i>
197                 Delete
198             </a>
199         </td>
200     </tr>
201     {% endfor %}
202   </tbody>
203 </table>
204 </div>
205 </div>
206 </section>
207 </div>
208 <footer class="main-footer">
209     <strong>Copyright © 2022 <a href="{{ url_for('index') }}>Shoffan Darul Mufti</a>.</strong>
210     All rights reserved.
211     <div class="float-right d-none d-sm-inline-block"><b>Version</b> 1.0</div>
212 </footer>
213 <aside class="control-sidebar control-sidebar-dark"></aside>
214 </div>
215 <script src="../static/plugins/jquery/jquery.min.js"></script>
216 <script src="../static/plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
217 <script src="../static/js/adminlte.min.js"></script>
218 </body>
219 </html>
220

```

Source Code Python:

```

9
10 def getMethod(sqlstr):
11     db = getMySQLConnection()
12     try:
13         cur = db.cursor()
14         print(sqlstr)
15         cur.execute(sqlstr)
16         output_json = cur.fetchall()
17     except Exception as e:
18         print("Error in SQL:\n", e)
19     finally:
20         db.close()
21     return output_json
22
23
24 @application.route('/peminjaman')
25 def peminjaman():
26     output_json = getMethod("SELECT * from peminjaman")
27     return render_template('peminjaman.html', kalimat=output_json)
28

```

Hasilnya seperti berikut:

ID Peminjaman	Tanggal Pinjam	Tanggal Kembali	ID Buku	ID Anggota	ID Petugas	Aksi
221116002	2022-11-16	2022-11-18	1002	2107421010	5002	<button>Edit</button> <button>Delete</button>

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## 6. Membuat Form Tambah Peminjaman

Di dalam menu peminjaman, ada tombol untuk Tambah Peminjaman. Tambah peminjaman berfungsi untuk menambahkan peminjaman baru ke tabel.

Source Code HTML:



The screenshot shows the Visual Studio Code interface with the file 'peminjamanAdd.html' open. The code is an HTML template for a sidebar navigation bar. It includes a header with meta tags for charset and viewport, a title 'Tambah Peminjaman Baru', and a body containing a main-header nav bar with various navigation items like 'pushmenu', 'search', and links to 'index', 'dashboard', and 'Logout'. The sidebar also features a user panel with a logo, name ('Shoffan Darul Mufti'), and a sidebar search bar.

```
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="utf-8" />
        <meta name="viewport" content="width=device-width, initial-scale=1" />
        <title>Tambah Peminjaman Baru</title>
        <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,700&display=fallback" />
        <link rel="stylesheet" href="../../static/plugins/fontawesome-free/css/all.min.css" />
        <link rel="stylesheet" href="../../static/plugins/daterangepicker/daterangepicker.css" />
        <link rel="stylesheet" href="../../static/plugins/iCheck-bootstrap/iCheck-bootstrap.min.css" />
        <link rel="stylesheet" href="../../static/plugins/bootstrap-colorpicker/css/bootstrap-colorpicker.min.css" />
        <link rel="stylesheet" href="../../static/plugins/tempusdominus-bootstrap-4/css/tempusdominus-bootstrap-4.min.css" />
        <link rel="stylesheet" href="../../static/plugins/select2/css/select2.min.css" />
        <link rel="stylesheet" href="../../static/plugins/select2-bootstrap4-theme/select2-bootstrap4.min.css" />
        <link rel="stylesheet" href="../../static/plugins/bootstrap4-duallistbox/bootstrap4-duallistbox.min.css" />
        <link rel="stylesheet" href="../../static/plugins/bs-stepper/css/bs-stepper.min.css" />
        <link rel="stylesheet" href="../../static/plugins/dropzone/min/dropzone.min.css" />
        <link rel="stylesheet" href="../../static/plugins/summernote/summernote-bs4.min.css" />
        <link rel="stylesheet" href="../../static/css/adminlte.min.css" />
    </head>
    <body class="hold-transition dark-mode sidebar-mini layout-fixed layout-navbar-fixed layout-footer-fixed">
        <div class="wrapper">
            <nav class="main-header navbar navbar-expand navbar-dark">
                <ul class="navbar-nav">
                    <li class="nav-item">
                        <a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
                    </li>
                </ul>
                <ul class="navbar-nav ml-auto">
                    <li class="nav-item">
                        <a class="nav-link" data-widget="navbar-search" href="#" role="button">
                            <i class="fas fa-search"></i>
                        </a>
                    <div class="navbar-search-block">
                        <form class="form-inline">
                            <div class="input-group input-group-sm">
                                <input class="form-control form-control-navbar" type="search" placeholder="Search" aria-label="Search" />
                            <div class="input-group-append">
                                <button class="btn btn-navbar" type="submit">
                                    <i class="fas fa-search"></i>
                                </button>
                                <button class="btn btn-navbar" type="button" data-widget="navbar-search">
                                    <i class="fas fa-times"></i>
                                </button>
                            </div>
                        </div>
                    </div>
                    </li>
                </ul>
                <li class="nav-item">
                    <a class="nav-link" data-widget="fullscreen" href="#" role="button">
                        <i class="fas fa-expand-arrows-alt"></i>
                    </a>
                </li>
                <li class="nav-item">
                    <a class="nav-link" data-widget="control-sidebar" data-slide="true" href="#" role="button">
                        <i class="fas fa-th-large"></i>
                    </a>
                </li>
                <li class="nav-item">
                    <a class="nav-link btn btn-sm btn-danger" href="{{ url_for('index') }}" role="button"><i class="fas fa-sign-out-alt mr-2"></i>Log Out</a>
                </li>
            </ul>
        </nav>
        <aside class="main-sidebar sidebar-dark-primary elevation-4">
            <a href="{{ url_for('dashboard') }}" class="brand-link">
                
                <span class="brand-text font-weight-light">Perpustakaan TMJ</span>
            </a>
            <div class="sidebar">
                <div class="user-panel mt-3 pb-3 mb-3 d-flex">
                    <div class="image">
                        
                    </div>
                    <div class="info">
                        <a href="#" class="d-block">Shoffan Darul Mufti</a>
                    </div>
                </div>
                <div class="form-inline">
                    <div class="input-group" data-widget="sidebar-search">
                        <input class="form-control form-control-sidebar" type="search" placeholder="Search" aria-label="Search" />
                    <div class="input-group-append">
                        <button class="btn btn-sidebar">
                            <i class="fas fa-search fa-fw"></i>
                        </button>
                    </div>
                </div>
            </div>
        </aside>
    </body>

```

```
89     <nav class="mt-2">
90         <ul class="nav nav-pills nav-sidebar flex-column" data-widget="treeview" role="menu" data-accordion="false">
91             <li class="nav-item menu-open">
92                 <a href="{{ url_for('dashboard') }}" class="nav-link">
93                     <i class="nav-icon fas fa-tachometer-alt"></i>
94                     <p>Dashboard</p>
95                 </a>
96             </li>
97             <li class="nav-item">
98                 <a href="{{ url_for('peminjaman') }}" class="nav-link active">
99                     <i class="nav-icon fas fa-arrow-alt-circle-up"></i>
100                    <p>Peminjaman</p>
101                </a>
102            </li>
103            <li class="nav-item">
104                <a href="{{ url_for('pengembalian') }}" class="nav-link">
105                    <i class="nav-icon fas fa-arrow-alt-circle-down"></i>
106                    <p>Pengembalian</p>
107                </a>
108            </li>
109            <li class="nav-item">
110                <a href="{{ url_for('buku') }}" class="nav-link">
111                    <i class="nav-icon fas fa-book"></i>
112                    <p>Tabel Buku</p>
113                </a>
114            </li>
115            <li class="nav-item">
116                <a href="{{ url_for('rak') }}" class="nav-link">
117                    <i class="nav-icon fas fa-bookmark"></i>
118                    <p>Tabel Rak</p>
119                </a>
120            </li>
121            <li class="nav-item">
122                <a href="{{ url_for('anggota') }}" class="nav-link">
123                    <i class="nav-icon fas fa-user"></i>
124                    <p>Tabel Anggota</p>
125                </a>
126            </li>
127            <li class="nav-item">
128                <a href="{{ url_for('petugas') }}" class="nav-link">
129                    <i class="nav-icon fas fa-user"></i>
130                    <p>Tabel Petugas</p>
131                </a>
132            </li>
133        </ul>
134    </div>
135 </div>
136 </aside>
137 <div class="content-wrapper">
138     <section class="content-header">
139         <div class="container-fluid">
140             <div class="row mb-2"></div>
141         </div>
142     </section>
143     <section class="content">
144         <form method="POST">
145             <div class="card card-primary">
146                 <div class="card-header">
147                     <h3 class="card-title">Form Tambah Peminjaman Baru</h3>
148                     <div class="card-tools">
149                         <button type="button" class="btn btn-tool" data-card-widget="collapse" title="Collapse">
150                             <i class="fas fa-minus"></i>
151                         </button>
152                     </div>
153             </div>
154             <div class="card-body">
155                 <div class="row">
156                     <div class="form-group col-md-6">
157                         <label>ID Peminjaman (yyWddox)</label>
158                         <input type="text" name="id" class="form-control" />
159                     </div>
160                     <div class="form-group col-md-6">
161                         <label>Tanggal Peminjamanc</label>
162                         <div class="input-group date" id="reservationdate" data-target-input="nearest">
163                             <input type="text" class="form-control datetimepicker-input" data-target="#reservationdate" name="tanggal_pinjam" />
164                             <div class="input-group-append" data-target="#reservationdate" data-toggle="datetimepicker">
165                                 <div class="input-group-text"><i class="fa fa-calendar"></i></div>
166                             </div>
167                         </div>
168                     </div>
169                     <div class="form-group col-md-6">
170                         <label>Tanggal Pengembalian</label>
171                         <div class="input-group date" id="reservationdate2" data-target-input="nearest">
172                             <input type="text" class="form-control datetimepicker-input" data-target="#reservationdate2" name="tanggal_kembali" />
173                             <div class="input-group-append" data-target="#reservationdate2" data-toggle="datetimepicker">
174                                 <div class="input-group-text"><i class="fa fa-calendar"></i></div>
175                             </div>
176                         </div>
177                     </div>
178                     <div class="form-group col-md-6">
179                         <label>ID Buku</label>
180                         <select name="id_buku" class="form-control">
181                             {% for item in id_buku %}
182                                 <option value="{{ item[0] }}>{{ item[0] }} - {{ item[1] }}</option>
183                             {% endfor %}
184                         </select>
185                     </div>
186                     <div class="form-group col-md-6">
187                         <label>ID Anggota</label>
188                         <select name="id_anggota" class="form-control">
189                             {% for item in id_anggota %}
190                                 <option value="{{ item[0] }}>{{ item[0] }} - {{ item[1] }}</option>
191                             {% endfor %}
192                         </select>
193                     </div>

```

```

194     <div class="form-group col-md-6">
195         <label>ID Petugas</label>
196         <select name="id_petugas" class="form-control">
197             {% for item in id_petugas %}
198                 <option value="{{ item[0] }}>{{ item[0] }} - {{ item[1] }}</option>
199             {% endfor %}
200         </select>
201     </div>
202     </div>
203     </div>
204     <div class="row">
205         <div class="col-12">
206             <a href="{{ url_for('peminjaman') }}" class="btn btn-secondary">Cancel</a>
207             <button type="submit" class="btn btn-success float-right toastrDefaultSuccess">Submit</button>
208         </div>
209     </div>
210     </div>
211     </form>
212     </section>
213 </div>
214 <footer class="main-footer">
215     <strong>Copyright &copy; 2022 <a href="{{ url_for('index') }}">Shoffan Darul Mufti</a>.</strong>
216     All rights reserved.
217     <div class="float-right d-none d-sm-inline-block"><b>Version</b> 1.0</div>
218 </footer>
219 <aside class="control-sidebar control-sidebar-dark"></aside>
220 </div>
221 <script src="../../static/plugins/jquery/jquery.min.js"></script>
222 <script src="../../static/plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
223 <script src="../../static/plugins/select2/js/select2.full.min.js"></script>
224 <script src="../../static/plugins/bootstrap4-duallistbox/jquery.bootstrap-duallistbox.min.js"></script>
225 <script src="../../static/plugins/moment/moment.min.js"></script>
226 <script src="../../static/plugins/inputmask/jquery.inputmask.min.js"></script>
227 <script src="../../static/plugins/daterangepicker/daterangepicker.js"></script>
228 <script src="../../static/plugins/bootstrap-colorpicker/js/bootstrap-colorpicker.min.js"></script>
229 <script src="../../static/plugins/tempusdominus-bootstrap-4/js/tempusdominus-bootstrap-4.min.js"></script>
230 <script src="../../static/plugins/bootstrap-switch/js/bootstrap-switch.min.js"></script>
231 <script src="../../static/plugins/bs-stepper/js/bs-stepper.min.js"></script>
232 <script src="../../static/plugins/dropzone/min/dropzone.min.js"></script>
233 <script src="../../static/plugins/summernote/summernote-bs4.min.js"></script>
234 <script src="../../static/js/adminlte.min.js"></script>
235 >     <script>...
236     </script>
237 </body>
238 </html>
239

```

## Source Code Python:

```

22
23 def postMethod(sqlstr, message):
24     db = getMySQLConnection()
25     try:
26         cur = db.cursor()
27         print(sqlstr)
28         cur.execute(sqlstr)
29         db.commit()
30         cur.close()
31         flash(message, 'success')
32     except Exception as e:
33         print("Error in SQL:\n", e)
34     finally:
35         db.close()
36
37
38 @application.route('/peminjamanAdd', methods=['GET', 'POST'])
39 def peminjamanAdd():
40     if request.method == 'GET':
41         id_buku_json = getMethod("SELECT id_buku, judul_buku FROM `buku`")
42         id_anggota_json = getMethod("SELECT id_anggota, nama_anggota FROM `anggota`")
43         id_petugas_json = getMethod("SELECT id_petugas, nama_petugas FROM `petugas`")
44         return render_template('peminjamanAdd.html', id_buku = id_buku_json, id_anggota = id_anggota_json, id_petugas = id_petugas_json)
45     elif request.method == 'POST':
46         id = request.form['id']
47         tanggal_pinjam = request.form['tanggal_pinjam']
48         tanggal_kembali = request.form['tanggal_kembali']
49         id_buku = request.form['id_buku']
50         id_anggota = request.form['id_anggota']
51         id_petugas = request.form['id_petugas']
52         postMethod("INSERT INTO `peminjaman`(`id_peminjaman`, `tanggal_peminjaman`, `tanggal_kembali`, `id_buku`, `id_anggota`, `id_petugas`) VALUES ('"+id+"', '"+tanggal_pinjam+"', '"+tanggal_kembali+"', '"+id_buku+"', '"+id_anggota+"', '"+id_petugas+"');", "Data Peminjaman Berhasil Ditambah")
53         return redirect(url_for('peminjaman'))
54

```

Hasilnya seperti berikut:

Tambah Peminjaman Baru

localhost:5000/peminjamanAdd

Perpustakaan TMJ

Shoffan Darul M.

Search

Dashboard

Peminjaman

- Pengembalian
- Tabel Buku
- Tabel Rak
- Tabel Anggota
- Tabel Petugas

Form Tambah Peminjaman Baru

ID Peminjaman (yyMMddxxx)	Tanggal Peminjaman
221119001	2022-11-19
Tanggal Pengembalian	ID Buku
2022-11-25	1003 - Tumbuh Dari Luka
ID Anggota	ID Petugas
2107421011 - Ai Haibara	5002 - Bu Kubaru

Cancel

Submit

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Version 1.0

Peminjaman

localhost:5000/peminjaman

Perpustakaan TMJ

Shoffan Darul M.

Search

Dashboard

Peminjaman

- Pengembalian
- Tabel Buku
- Tabel Rak
- Tabel Anggota
- Tabel Petugas

Tabel Peminjaman

Data Peminjaman Berhasil Ditambah

ID Peminjaman	Tanggal Pinjam	Tanggal Kembali	ID Buku	ID Anggota	ID Petugas	Aksi
221116002	2022-11-16	2022-11-18	1002	2107421010	5002	<button>Edit</button> <button>Delete</button>
221119001	2022-11-19	2022-11-25	1003	2107421011	5002	<button>Edit</button> <button>Delete</button>

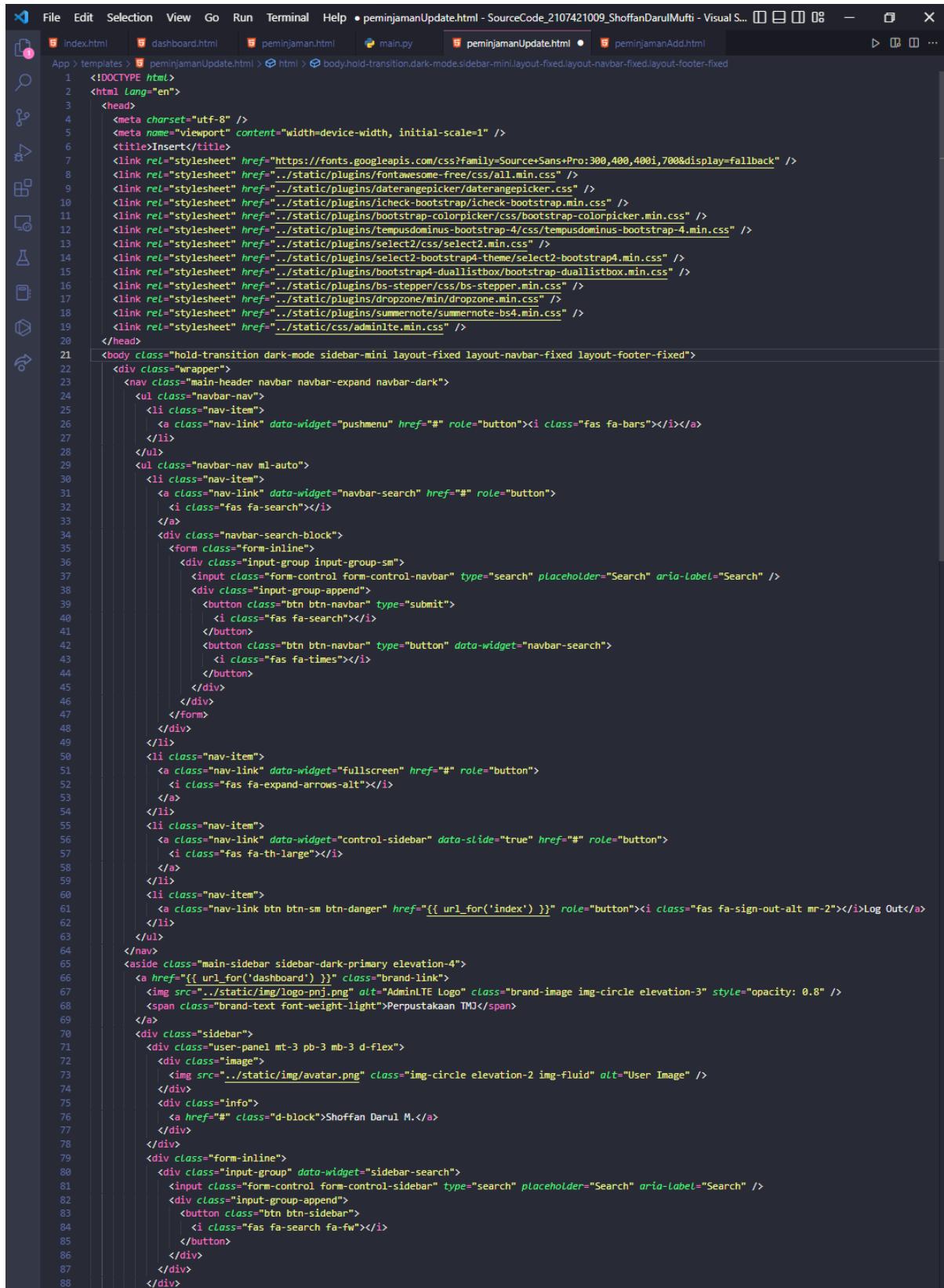
Copyright © 2022 Shoffan Darul Mufti. All rights reserved.

Version 1.0

## 7. Membuat Form Update Peminjaman

Di dalam menu peminjaman, ada tombol untuk Update Peminjaman. Update peminjaman berfungsi untuk mengubah data peminjaman dari tabel.

Source Code HTML:



The screenshot shows the Visual Studio Code interface with the file 'peminjamanUpdate.html' open in the center editor tab. The code is written in HTML and includes various CSS imports and Bootstrap components for a sidebar and navbar. The code is color-coded for syntax highlighting, with tags like <html>, <body>, <div>, and <a> highlighted in different colors. The sidebar navigation includes links for index, dashboard, peminjaman, main.py, peminjamanUpdate, peminjamanAdd, and peminjamanEdit. The status bar at the bottom shows the file path and other details.

```
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="utf-8" />
        <meta name="viewport" content="width=device-width, initial-scale=1" />
        <title>Insert</title>
        <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,700&display=fallback" />
        <link rel="stylesheet" href="../../static/plugins/fontawesome-free/css/all.min.css" />
        <link rel="stylesheet" href="../../static/plugins/daterangepicker/daterangepicker.css" />
        <link rel="stylesheet" href="../../static/plugins/iCheck-bootstrap/iCheck-bootstrap.min.css" />
        <link rel="stylesheet" href="../../static/plugins/bootstrap-colorpicker/css/bootstrap-colorpicker.min.css" />
        <link rel="stylesheet" href="../../static/plugins/tempusdominus-bootstrap-4/css/tempusdominus-bootstrap-4.min.css" />
        <link rel="stylesheet" href="../../static/plugins/select2/css/select2.min.css" />
        <link rel="stylesheet" href="../../static/plugins/select2-bootstrap4-theme/select2-bootstrap4.min.css" />
        <link rel="stylesheet" href="../../static/plugins/bootstrap4-duallistbox/bootstrap4-duallistbox.min.css" />
        <link rel="stylesheet" href="../../static/plugins/bs-stepper/css/bs-stepper.min.css" />
        <link rel="stylesheet" href="../../static/plugins/dropzone/min/dropzone.min.css" />
        <link rel="stylesheet" href="../../static/plugins/summernote/summernote-bs4.min.css" />
        <link rel="stylesheet" href="../../static/css/adminlte.min.css" />
    </head>
    <body class="hold-transition dark-mode sidebar-mini layout-fixed layout-navbar-fixed layout-footer-fixed">
        <div class="wrapper">
            <nav class="main-header navbar navbar-expand navbar-dark">
                <ul class="navbar-nav">
                    <li class="nav-item">
                        <a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
                    </li>
                </ul>
                <ul class="navbar-nav ml-auto">
                    <li class="nav-item">
                        <a class="nav-link" data-widget="navbar-search" href="#" role="button">
                            <i class="fas fa-search"></i>
                        </a>
                    <div class="navbar-search-block">
                        <form class="form-inline">
                            <div class="input-group input-group-sm">
                                <input class="form-control form-control-navbar" type="search" placeholder="Search" aria-label="Search" />
                                <div class="input-group-append">
                                    <button class="btn btn-navbar" type="submit">
                                        <i class="fas fa-search"></i>
                                    </button>
                                    <button class="btn btn-navbar" type="button" data-widget="navbar-search">
                                        <i class="fas fa-times"></i>
                                    </button>
                                </div>
                            </div>
                        </form>
                    </div>
                    </li>
                </ul>
                <li class="nav-item">
                    <a class="nav-link" data-widget="fullscreen" href="#" role="button">
                        <i class="fas fa-expand-arrows-alt"></i>
                    </a>
                </li>
                <li class="nav-item">
                    <a class="nav-link" data-widget="control-sidebar" data-slide="true" href="#" role="button">
                        <i class="fas fa-th-large"></i>
                    </a>
                </li>
                <li class="nav-item">
                    <a class="nav-link btn btn-sm btn-danger" href="{{ url_for('index') }}" role="button"><i class="fas fa-sign-out-alt mr-2"></i>Log Out</a>
                </li>
            </ul>
        </nav>
        <aside class="main-sidebar sidebar-dark-primary elevation-4">
            <a href="{{ url_for('dashboard') }}" class="brand-link">
                
                <span class="brand-text font-weight-light">Perpustakaan TMJ</span>
            </a>
            <div class="sidebar">
                <div class="user-panel mt-3 pb-3 mb-3 d-flex">
                    <div class="image">
                        
                    </div>
                    <div class="info">
                        <a href="#" class="d-block">Shoffan Darul M.</a>
                    </div>
                </div>
                <div class="form-inline">
                    <div class="input-group" data-widget="sidebar-search">
                        <input class="form-control form-control-sidebar" type="search" placeholder="Search" aria-label="Search" />
                        <div class="input-group-append">
                            <button class="btn btn-sidebar">
                                <i class="fas fa-search fa-fw"></i>
                            </button>
                        </div>
                    </div>
                </div>
            </div>
        </aside>
    </div>

```

```
File Edit Selection View Go Run Terminal Help • peminjamanUpdate.html - SourceCode_2107421009_ShoffanDarulMufti - Visual Studio Code 89
index.html dashboard.html peminjaman.html main.py peminjamanUpdate.html peminjamanAdd.html
App > templates > peminjamanUpdate.html > html > body.hold-transition.dark-mode.sidebar-mini.layout-fixed.layout-navbar-fixed.layout-footer-fixed
89     <nav class="mt-2">
90         <ul class="nav nav-pills nav-sidebar flex-column" data-widget="treeview" role="menu" data-accordion="false">
91             <li class="nav-item menu-open">
92                 <a href="{{ url_for('dashboard') }}" class="nav-link">
93                     <i class="nav-icon fas fa-tachometer-alt"></i>
94                     <p>Dashboard</p>
95                 </a>
96             </li>
97             <li class="nav-item">
98                 <a href="{{ url_for('peminjaman') }}" class="nav-link active">
99                     <i class="nav-icon fas fa-arrow-alt-circle-up"></i>
100                     <p>Peminjaman</p>
101                 </a>
102             </li>
103             <li class="nav-item">
104                 <a href="{{ url_for('pengembalian') }}" class="nav-link">
105                     <i class="nav-icon fas fa-arrow-alt-circle-down"></i>
106                     <p>Pengembalian</p>
107                 </a>
108             </li>
109             <li class="nav-item">
110                 <a href="{{ url_for('buku') }}" class="nav-link">
111                     <i class="nav-icon fas fa-book"></i>
112                     <p>Tabel Buku</p>
113                 </a>
114             </li>
115             <li class="nav-item">
116                 <a href="{{ url_for('rak') }}" class="nav-link">
117                     <i class="nav-icon fas fa-bookmark"></i>
118                     <p>Tabel Rak</p>
119                 </a>
120             </li>
121             <li class="nav-item">
122                 <a href="{{ url_for('anggota') }}" class="nav-link">
123                     <i class="nav-icon fas fa-user"></i>
124                     <p>Tabel Anggota</p>
125                 </a>
126             </li>
127             <li class="nav-item">
128                 <a href="{{ url_for('petugas') }}" class="nav-link">
129                     <i class="nav-icon fas fa-user"></i>
130                     <p>Tabel Petugas</p>
131                 </a>
132             </li>
133         </ul>
134     </nav>
135 </div>
136 </aside>
137 <div class="content-wrapper">
138     <section class="content-header">
139         <div class="container-fluid">
140             <div class="row mb-2"></div>
141         </div>
142     </section>
143     <section class="content">
144         {% block content %}<br/>
145         <form method="POST">
146             <div class="card card-primary">
147                 <div class="card-header">
148                     <h3 class="card-title">Form Update Peminjaman</h3>
149                 <div class="card-tools">
150                     <button type="button" class="btn btn-tool" data-card-widget="collapse" title="Collapse">
151                         <i class="fas fa-minus"></i>
152                     </button>
153                 </div>
154             </div>
155             <div class="card-body">
156                 <div class="row">
157                     {% for item in data_lama %}
158                         <div class="form-group col-md-6">
159                             <label>ID Peminjaman (yyMMddxx)</label>
160                             <input type="text" name="id" class="form-control" value="{{ item[0] }}"/>
161                         </div>
162                         <div class="form-group col-md-6">
163                             <label>Tanggal Peminjaman</label>
164                             <div class="input-group date" id="reservationdate" data-target-input="nearest">
165                                 <input type="text" class="form-control datetimepicker-input" data-target="#reservationdate" name="tanggal_pinjam" value="{{ item[1] }}"/>
166                                 <div class="input-group-append" data-target="#reservationdate" data-toggle="datetimepicker">
167                                     <div class="input-group-text"><i class="fa fa-calendar"></i></div>
168                                 </div>
169                             </div>
170                         </div>
171                         <div class="form-group col-md-6">
172                             <label>Tanggal Pengembalian</label>
173                             <div class="input-group date" id="reservationdate2" data-target-input="nearest">
174                                 <input type="text" class="form-control datetimepicker-input" data-target="#reservationdate2" name="tanggal_kembali" value="{{ item[2] }}"/>
175                                 <div class="input-group-append" data-target="#reservationdate2" data-toggle="datetimepicker">
176                                     <div class="input-group-text"><i class="fa fa-calendar"></i></div>
177                                 </div>
178                             </div>
179                         </div>
180                     {% endfor %}
181                     <div class="form-group col-md-6">
182                         <label>ID Buku</label>
183                         <select name="id_buku" class="form-control">
184                             {% for item in id_buku %}
185                                 <option value="{{ item[0] }}>{{ item[0] }} - {{ item[1] }}</option>
186                             {% endfor %}
187                         </select>
188                     </div>
189                     <div class="form-group col-md-6">
190                         <label>ID Anggota</label>
191                         <select name="id_anggota" class="form-control">
192                             {% for item in id_anggota %}
193                                 <option value="{{ item[0] }}>{{ item[0] }} - {{ item[1] }}</option>
194                             {% endfor %}
195                         </select>
196                     </div>
197                 </div>
198             </div>
199         </form>
200     </section>
201 </div>
```

```

197     <div class="form-group col-md-6">
198         <label>ID Petugas</label>
199         <select name="id_petugas" class="form-control">
200             {% for item in id_petugas %}
201                 <option value="{{ item[0] }}>{{ item[0] }} - {{ item[1] }}</option>
202             {% endfor %}
203         </select>
204     </div>
205     </div>
206     </div>
207     <div class="row">
208         <div class="col-12">
209             <a href="{{ url_for('peminjaman') }}" class="btn btn-secondary">Cancel</a>
210             <button type="submit" class="btn btn-success float-right toastrDefaultSuccess">Submit</button>
211         </div>
212     </div>
213     </form>
214     {% endblock %}
215 </section>
216 </div>
217 <footer class="main-footer">
218     <strong>Copyright &copy; 2022 <a href="{{ url_for('index') }}">Shoffan Darul Mufti</a>.</strong>
219     All rights reserved.
220     <div class="float-right d-none d-sm-inline-block"><b>Version</b> 1.0</div>
221 </footer>
222 <aside class="control-sidebar control-sidebar-dark">
223     </aside>
224 </div>
225 <script src="../../static/plugins/jquery/jquery.min.js"></script>
226 <script src="../../static/plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
227 <script src="../../static/plugins/select2/js/select2.full.min.js"></script>
228 <script src="../../static/plugins/bootstrap4-duallistbox/jquery.bootstrap-duallistbox.min.js"></script>
229 <script src="../../static/plugins/moment/moment.min.js"></script>
230 <script src="../../static/plugins/inputmask/jquery.inputmask.min.js"></script>
231 <script src="../../static/plugins/daterangepicker/daterangepicker.js"></script>
232 <script src="../../static/plugins/bootstrap-colorpicker/js/bootstrap-colorpicker.min.js"></script>
233 <script src="../../static/plugins/tempusdominus-bootstrap-4/js/tempusdominus-bootstrap-4.min.js"></script>
234 <script src="../../static/plugins/bootstrap-switch/js/bootstrap-switch.min.js"></script>
235 <script src="../../static/plugins/bs-stepper/js/bs-stepper.min.js"></script>
236 <script src="../../static/plugins/dropzone/min/dropzone.min.js"></script>
237 <script src="../../static/plugins/summernote/summernote-bs4.min.js"></script>
238 <script src="../../static/js/adminlte.min.js"></script>
239 <script> ...
240 </script> ...
241 </body>
242 </html>
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```

## Source Code Python:

```

65
66
67
68
69
70 @application.route('/peminjamanUpdate/<int:id>', methods=['GET', 'POST'])
71 def peminjamanUpdate(id):
72     if request.method == 'GET':
73         data_lama = getMethod("SELECT * from peminjaman WHERE id_peminjaman='"+str(id)+"';")
74         print(data_lama)
75         id_buku_json = getMethod("SELECT id_buku, judul_buku FROM `buku`")
76         id_anggota_json = getMethod("SELECT id_anggota, nama_anggota FROM `anggota`")
77         id_petugas_json = getMethod("SELECT id_petugas, nama_petugas FROM `petugas`")
78         return render_template('peminjamanUpdate.html', data_lama = data_lama, id_buku = id_buku_json, id_anggota = id_anggota_json, id_petugas = id_petugas_json)
79     elif request.method == 'POST':
80         id = request.form['id']
81         tanggal_pinjam = request.form['tanggal_pinjam']
82         tanggal_kembali = request.form['tanggal_kembali']
83         id_buku = request.form['id_buku']
84         id_anggota = request.form['id_anggota']
85         id_petugas = request.form['id_petugas']
86         postMethod("UPDATE `peminjaman` SET `id_peminjaman` = '"+id+"', `tanggal_peminjaman` = '"+tanggal_pinjam+"', `tanggal_kembali` = '"+tanggal_kembali+"', `id_buku` = '"+id_buku+"', `id_anggota` = '"+id_anggota+"', `id_petugas` = '"+id_petugas+"' WHERE `peminjaman`.`id_peminjaman` = "+str(id)+";", "Data Peminjaman Berhasil Diubah")
87         return redirect(url_for('peminjaman'))
88

```

Hasilnya seperti berikut:

Form Update Peminjaman

ID Peminjaman (yyMMddxxx)	221119001	Tanggal Peminjaman	2022-11-19
Tanggal Pengembalian	2022-11-23	ID Buku	1003 - Tumbuh Dari Luka
ID Anggota	2107421010 - Conan Edogawa	ID Petugas	5001 - Pak Ainota

Cancel Submit

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Tabel Peminjaman

Data Peminjaman Berhasil Diubah

ID Peminjaman	Tanggal Pinjam	Tanggal Kembali	ID Buku	ID Anggota	ID Petugas	Aksi
221116002	2022-11-16	2022-11-18	1002	2107421010	5002	<span style="color: blue;">Edit</span> <span style="color: red;">Delete</span>
221119001	2022-11-19	2022-11-23	1003	2107421010	5001	<span style="color: blue;">Edit</span> <span style="color: red;">Delete</span>

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## 8. Membuat Form Delete Peminjaman

Di dalam menu peminjaman, ada tombol untuk Delete Peminjaman. Delete peminjaman berfungsi untuk menghapus data peminjaman dari tabel.

Source Code Python:

```
89     @application.route('/peminjamanDelete/', methods=['GET'])
90     def peminjamanDelete(id):
91         if request.method == 'GET':
92             postMethod("DELETE FROM `peminjaman` WHERE `peminjaman`.`id_peminjaman` = '"+str(id)+"';", 'Data Peminjaman Berhasil Dihapus')
93             return redirect(url_for('peminjaman'))
94 
```

Hasilnya seperti berikut:

The screenshot shows a web application interface for managing library loans ('Peminjaman'). On the left is a sidebar with navigation links: Dashboard, Peminjaman (which is selected and highlighted in blue), Pengembalian, Tabel Buku, Tabel Rak, Tabel Anggota, and Tabel Petugas. The main content area displays a table titled 'Tabel Peminjaman' with columns: ID Peminjaman, Tanggal Pinjam, Tanggal Kembali, ID Buku, ID Anggota, ID Petugas, and Aksi (Actions). Two rows of data are visible. A modal dialog box is centered over the second row, containing the message 'Are you sure you want to delete?' with 'OK' and 'Cancel' buttons. The URL in the browser's address bar is 'localhost:5000/peminjaman'.

This screenshot shows the same web application after a deletion. The modal dialog from the previous screenshot has disappeared, and the table now only shows one row of data. The URL in the browser's address bar is 'localhost:5000/peminjamanDelete/221119001'.

## 9. Membuat Tabel Pengembalian

Di dalam dashboard, ada menu Pengembalian. Menu Pengembalian berisikan tabel daftar Pengembalian yang ada.

Source Code HTML:



```
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="utf-8" />
        <meta name="viewport" content="width=device-width, initial-scale=1" />
        <title>Anggota</title>
        <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700&display=fallback" />
        <link rel="stylesheet" href="../static/plugins/fontawesome-free/css/all.min.css" />
        <link rel="stylesheet" href="../static/css/adminlte.min.css" />
    </head>
    <body class="hold-transition dark-mode sidebar-mini layout-fixed layout-navbar-fixed layout-footer-fixed">
        <div class="wrapper">
            <nav class="main-header navbar navbar-expand navbar-dark">
                <ul class="navbar-nav">
                    <li class="nav-item">
                        <a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
                    </li>
                    <li class="nav-item d-none d-sm-inline-block">
                        <h3 class="m-0">Tabel Pengembalian</h3>
                    </li>
                </ul>
                <ul class="navbar-nav ml-auto">
                    <li class="nav-item">
                        <a class="nav-link" data-widget="navbar-search" href="#" role="button">
                            <i class="fas fa-search"></i>
                        </a>
                    </li>
                    <div class="navbar-search-block">
                        <form class="form-inline">
                            <div class="input-group input-group-sm">
                                <input class="form-control form-control-navbar" type="search" placeholder="Search" aria-label="Search" />
                                <div class="input-group-append">
                                    <button class="btn btn-navbar" type="submit">
                                        <i class="fas fa-search"></i>
                                    </button>
                                    <button class="btn btn-navbar" type="button" data-widget="navbar-search">
                                        <i class="fas fa-times"></i>
                                    </button>
                                </div>
                            </div>
                        </form>
                    </div>
                    <li>
                        <a class="nav-link" data-widget="fullscreen" href="#" role="button">
                            <i class="fas fa-expand-arrows-alt"></i>
                        </a>
                    </li>
                    <li class="nav-item">
                        <a class="nav-link" data-widget="control-sidebar" data-slide="true" href="#" role="button">
                            <i class="fas fa-th-large"></i>
                        </a>
                    </li>
                    <li class="nav-item">
                        <a class="nav-link btn btn-sm btn-danger" href="{% url_for('index') }" role="button"><i class="fas fa-sign-out-alt mr-2"></i>Log Out</a>
                    </li>
                </ul>
            </nav>
            <aside class="main-sidebar sidebar-dark-primary elevation-4">
                <a href="{% url_for('dashboard') }" class="brand-link">
                    
                    <span class="brand-text font-weight-light">Perpustakaan TMJ</span>
                </a>
                <div class="sidebar">
                    <div class="user-panel mt-3 pb-3 mb-3 d-flex">
                        <div class="image">
                            
                        </div>
                        <div class="info">
                            <a href="#" class="d-block">Shoffan Darul M.</a>
                        </div>
                    </div>
                    <div class="form-inline">
                        <div class="input-group" data-widget="sidebar-search">
                            <input class="form-control form-control-sidebar" type="search" placeholder="Search" aria-label="Search" />
                            <div class="input-group-append">
                                <button class="btn btn-sidebar">
                                    <i class="fas fa-search fa-fw"></i>
                                </button>
                            </div>
                        </div>
                    </div>
                    <nav class="mt-2">
                        <ul class="nav nav-pills nav-sidebar flex-column" data-widget="treeview" role="menu" data-accordion="false">
                            <li class="nav-item menu-open">
                                <a href="{% url_for('dashboard') }" class="nav-link">
                                    <i class="nav-icon fas fa-tachometer-alt"></i>
                                    <p>Dashboard</p>
                                </a>
                            </li>
                        </ul>
                    </nav>
                </div>
            </aside>
        </div>
    </body>
</html>
```

```
File Edit Selection View Go Run Terminal Help pengembalian.html - SourceCode_2107421009_ShoffanDarulMufti - Visual Studio Code pengembalian.html index.html dashboard.html peminjaman.html main.py pengembalian.html peminjamanUpdate.html peminjamanAdd.html

App > templates > pengembalian.html > ...
90         <li class="nav-item">
91             <a href="{{ url_for('peminjaman') }}" class="nav-link">
92                 <i class="nav-icon fas fa-arrow-alt-circle-up"></i>
93                 <p>Peminjaman</p>
94             </a>
95         </li>
96         <li class="nav-item">
97             <a href="{{ url_for('pengembalian') }}" class="nav-link active">
98                 <i class="nav-icon fas fa-arrow-alt-circle-down"></i>
99                 <p>Pengembalian</p>
100            </a>
101        </li>
102        <li class="nav-item">
103            <a href="{{ url_for('buku') }}" class="nav-link">
104                <i class="nav-icon fas fa-book"></i>
105                <p>Tabel Buku</p>
106            </a>
107        </li>
108        <li class="nav-item">
109            <a href="{{ url_for('rak') }}" class="nav-link">
110                <i class="nav-icon fas fa-bookmark"></i>
111                <p>Tabel Rak</p>
112            </a>
113        </li>
114        <li class="nav-item">
115            <a href="{{ url_for('anggota') }}" class="nav-link">
116                <i class="nav-icon fas fa-user"></i>
117                <p>Tabel Anggota</p>
118            </a>
119        </li>
120        <li class="nav-item">
121            <a href="{{ url_for('petugas') }}" class="nav-link">
122                <i class="nav-icon fas fa-user"></i>
123                <p>Tabel Petugas</p>
124            </a>
125        </li>
126    </ul>
127 </nav>
128 </div>
129 </aside>
130 <div class="content-wrapper">
131     <section class="content-header">
132         <div class="container-fluid">
133             <div class="row mb-2"></div>
134         </div>
135     </section>
136     <section class="content">
137         <div class="alert alert-success">
138             <a href="#" class="close text-white" data-dismiss="alert" aria-label="close">&times;</a>
139             {% with messages = get_flashed_messages() %} {% if messages %} {% for message in messages %} {{ message }} {% endif %} {% endif %} {% endwith %}
140         </div>
141         <div class="card">
142             <div class="card-header">
143                 <a class="btn btn-success btn-sm" href="{{ 'pengembalianAdd' }}>
144                     <i class="fas fa-plus-circle"></i>
145                     Tambah Pengembalian Baru
146                 </a>
147             <div class="card-tools">
148                 <button type="button" class="btn btn-tool" data-card-widget="collapse" title="Collapse">
149                     <i class="fas fa-minus"></i>
150                 </button>
151                 <button type="button" class="btn btn-tool" data-card-widget="remove" title="Remove">
152                     <i class="fas fa-times"></i>
153                 </button>
154             </div>
155         </div>
156         <div class="card-body p-0">
157             <table class="table table-striped projects text-center">
158                 <thead>
159                     <tr>
160                         <th>ID Pengembalian</th>
161                         <th>Tanggal Kembali</th>
162                         <th>Denda</th>
163                         <th>ID Buku</th>
164                         <th>ID Anggota</th>
165                         <th>ID Petugas</th>
166                         <th>Aksi</th>
167                     </tr>
168                 </thead>
169                 <tbody>
170                     {% for item in kalimat %}
171                         <tr>
172                             <td>
173                                 <p href="{{ item }}>{{ item[0] }}</p>
174                             </td>
175                             <td>
176                                 <p href="{{ item }}>{{ item[1] }}</p>
177                             </td>
178                             <td>
179                                 <p href="{{ item }}>{{ item[2] }}</p>
180                             </td>
181                             <td>
182                                 <p href="{{ item }}>{{ item[3] }}</p>
183                             </td>
184                             <td>
185                                 <p href="{{ item }}>{{ item[4] }}</p>
186                             </td>
187                             <td>
188                                 <p href="{{ item }}>{{ item[5] }}</p>
189                             </td>
190                         </tr>
191                     {% endfor %}
192                 </tbody>
193             </table>
194         </div>
195     </section>
196 </div>
```

```
<td class="project-actions">
    <a class="btn btn-info btn-sm" href="pengembalianUpdate/{{ item[0] }}">
        <i class="fas fa-pencil-alt"> </i>
        Edit
    </a>
    <a class="btn btn-danger btn-sm" href="pengembalianDelete/{{ item[0] }}" onclick="return confirm('Are you sure you want to delete?')">
        <i class="fas fa-trash"> </i>
        Delete
    </a>
</td>
</tr>
{% endfor %}
</tbody>
</table>
</div>
</div>
</section>
</div>
<footer class="main-footer">
    <strong>Copyright &copy; 2022 <a href="{{ url_for('index') }}>Shoffan Darul Mufti</a>.</strong>
    All rights reserved.
    <div class="float-right d-none d-sm-inline-block"><b>Version</b> 1.0</div>
</footer>
<aside class="control-sidebar control-sidebar-dark">
    </aside>
</div>
<script src="../static/plugins/jquery/jquery.min.js"></script>
<script src="../static/plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
<script src="../static/js/adminlte.min.js"></script>
</body>
</html>

```

### Source Code Python:

```
94     @application.route('/pengembalian')
95     def pengembalian():
96         output_json = getMethod("SELECT * from pengembalian")
97         return render_template('pengembalian.html', katimat=output_json)
98
99
```

Hasilnya seperti berikut:

ID Pengembalian	Tanggal Kembali	Denda	ID Buku	ID Anggota	ID Petugas	Aksi
2147483647	2022-11-19	0	1002	2107421010	5002	<button>Edit</button> <button>Delete</button>

## 10. Membuat Form Tambah Pengembalian

Di dalam menu Pengembalian, ada tombol untuk Tambah Pengembalian. Tambah Pengembalian berfungsi untuk menambahkan Pengembalian baru ke tabel.

Source Code HTML:



The screenshot shows the Visual Studio Code interface with the file 'pengembalianAdd.html' open. The code is an HTML template for adding a new return record. It includes a header with meta tags, links to CSS files for Bootstrap and other plugins, and a navigation bar with search and sidebar controls. The main content area contains a form for inputting return details like date, time, and status, along with a button to save the record.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <title>Tambah Pengembalian Baru</title>
    <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700&display=fallback" />
    <link rel="stylesheet" href="../../static/plugins/fontawesome-free/css/all.min.css" />
    <link rel="stylesheet" href="../../static/plugins/daterangepicker/daterangepicker.css" />
    <link rel="stylesheet" href="../../static/plugins/iCheck-bootstrap/icheck-bootstrap.min.css" />
    <link rel="stylesheet" href="../../static/plugins/bootstrap-colorpicker/css/bootstrap-colorpicker.min.css" />
    <link rel="stylesheet" href="https://tempusdominus.net/assets/css/tempusdominus-bootstrap-4.min.css" />
    <link rel="stylesheet" href="../../static/plugins/select2/css/select2.min.css" />
    <link rel="stylesheet" href="../../static/plugins/select2-bootstrap4-theme/select2-bootstrap4.min.css" />
    <link rel="stylesheet" href="../../static/plugins/bootstrap4-duallistbox/bootstrap4-duallistbox.min.css" />
    <link rel="stylesheet" href="../../static/plugins/bs-stepper/css/bs-stepper.min.css" />
    <link rel="stylesheet" href="../../static/plugins/dropzone/min/dropzone.min.css" />
    <link rel="stylesheet" href="../../static/plugins/summernote/summernote-bs4.min.css" />
    <link rel="stylesheet" href="../../static/css/adminlte.min.css" />
</head>
<body class="hold-transition dark-mode sidebar-mini layout-fixed layout-navbar-fixed layout-footer-fixed">
    <div class="wrapper">
        <nav class="main-header navbar navbar-expand navbar-dark">
            <ul class="navbar-nav">
                <li class="nav-item">
                    <a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
                </li>
                <li class="nav-item d-none d-sm-inline-block"></li>
            </ul>
            <ul class="navbar-nav ml-auto">
                <li class="nav-item">
                    <a class="nav-link" data-widget="navbar-search" href="#" role="button">
                        <i class="fas fa-search"></i>
                    </a>
                    <div class="navbar-search-block">
                        <form class="form-inline">
                            <div class="input-group input-group-sm">
                                <input class="form-control form-control-navbar" type="search" placeholder="Search" aria-label="Search" />
                                <div class="input-group-append">
                                    <button class="btn btn-navbar" type="submit">
                                        <i class="fas fa-search"></i>
                                    </button>
                                    <button class="btn btn-navbar" type="button" data-widget="navbar-search">
                                        <i class="fas fa-times"></i>
                                    </button>
                                </div>
                            </div>
                        </form>
                    </div>
                </li>
                <li class="nav-item">
                    <a class="nav-link" data-widget="fullscreen" href="#" role="button">
                        <i class="fas fa-expand-arrows-alt"></i>
                    </a>
                </li>
                <li class="nav-item">
                    <a class="nav-link" data-widget="control-sidebar" data-slide="true" href="#" role="button">
                        <i class="fas fa-th-large"></i>
                    </a>
                </li>
                <li class="nav-item">
                    <a class="nav-link btn btn-sm btn-danger" href="{% url_for('index') }" role="button"><i class="fas fa-sign-out-alt mr-2"></i>Log Out</a>
                </li>
            </ul>
        </nav>
        <aside class="main-sidebar sidebar-dark-primary elevation-4">
            <a href="{% url_for('dashboard') }" class="brand-link">
                
                <span class="brand-text font-weight-light">Perpustakaan TMQ
            </a>
            <div class="sidebar">
                <div class="user-panel mt-3 pb-3 mb-3 d-flex">
                    <div class="image">
                        
                    </div>
                    <div class="info">
                        <a href="#" class="d-block">Shoffan Darul M.</a>
                    </div>
                </div>
                <div class="form-inline">
                    <div class="input-group" data-widget="sidebar-search">
                        <input class="form-control form-control-sidebar" type="search" placeholder="Search" aria-label="Search" />
                        <div class="input-group-append">
                            <button class="btn btn-sidebar">
                                <i class="fas fa-search fa-fw"></i>
                            </button>
                        </div>
                    </div>
                </div>
            </div>
        </aside>
    </div>

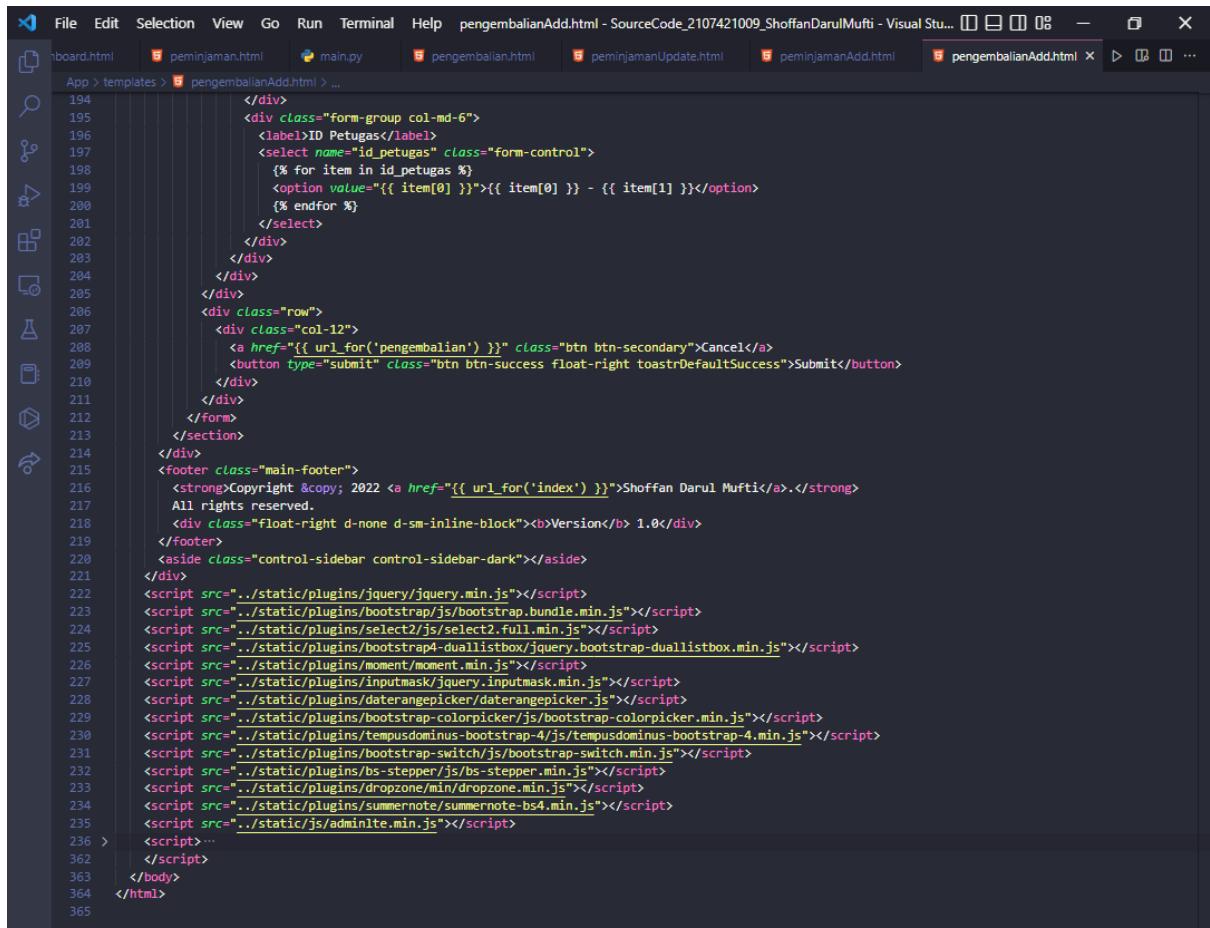
```

```
File Edit Selection View Go Run Terminal Help pengembalianAdd.html - SourceCode_2107421009_ShoffanDarulMufti - Visual Studio Code

Dashboard.html peminjaman.html main.py pengembalian.html peminjamanUpdate.html peminjamanAdd.html pengembalianAdd.html

App > templates > pengembalianAdd.html ...

90     <nav class="mt-2">
91         <ul class="nav nav-pills nav-sidebar flex-column" data-widget="treeview" role="menu" data-accordion="false">
92             <li class="nav-item menu-open">
93                 <a href="{% url_for('dashboard') }" class="nav-link">
94                     <i class="nav-icon fas fa-tachometer-alt"></i>
95                     <p>Dashboard</p>
96                 </a>
97             </li>
98             <li class="nav-item">
99                 <a href="{% url_for('peminjaman') }" class="nav-link">
100                     <i class="nav-icon fas fa-arrow-alt-circle-up"></i>
101                     <p>Peminjaman</p>
102                 </a>
103             </li>
104             <li class="nav-item">
105                 <a href="{% url_for('pengembalian') }" class="nav-link active">
106                     <i class="nav-icon fas fa-arrow-alt-circle-down"></i>
107                     <p>Pengembalian</p>
108                 </a>
109             </li>
110             <li class="nav-item">
111                 <a href="{% url_for('buku') }" class="nav-link">
112                     <i class="nav-icon fas fa-book"></i>
113                     <p>Tabel Buku</p>
114                 </a>
115             </li>
116             <li class="nav-item">
117                 <a href="{% url_for('rak') }" class="nav-link">
118                     <i class="nav-icon fas fa-bookmark"></i>
119                     <p>Tabel Rak</p>
120                 </a>
121             </li>
122             <li class="nav-item">
123                 <a href="{% url_for('anggota') }" class="nav-link">
124                     <i class="nav-icon fas fa-user"></i>
125                     <p>Tabel Anggota</p>
126                 </a>
127             </li>
128             <li class="nav-item">
129                 <a href="{% url_for('petugas') }" class="nav-link">
130                     <i class="nav-icon fas fa-user"></i>
131                     <p>Tabel Petugas</p>
132                 </a>
133             </li>
134         </ul>
135     </nav>
136 </aside>
137 <div class="content-wrapper">
138     <section class="content-header">
139         <div class="container-fluid">
140             <div class="row mb-2"></div>
141         </div>
142     </section>
143     <section class="content">
144         <form method="POST">
145             <div class="card card-primary">
146                 <div class="card-header">
147                     <h3 class="card-title">Form Tambah Pengembalian Baru</h3>
148                     <div class="card-tools">
149                         <button type="button" class="btn btn-tool" data-card-widget="collapse" title="Collapse">
150                             <i class="fas fa-minus"></i>
151                         </button>
152                     </div>
153                 </div>
154                 <div class="card-body">
155                     <div class="row">
156                         <div class="form-group col-md-6">
157                             <label>ID Pengembalian (yyMddxxx)</label>
158                             <input type="text" name="id" class="form-control" />
159                         </div>
160                         <div class="form-group col-md-6">
161                             <label>Tanggal Pengembalian</label>
162                             <div class="input-group date" id="reservationdate" data-target-input="nearest">
163                                 <input type="text" class="form-control datetimepicker-input" data-target="#reservationdate" name="tanggal_kembali" />
164                                 <div class="input-group-append" data-target="#reservationdate" data-toggle="datetimepicker">
165                                     <div class="input-group-text"><i class="fa fa-calendar"></i></div>
166                                 </div>
167                             </div>
168                         </div>
169                         <div class="form-group col-md-6">
170                             <label>Denda</label>
171                             <div class="input-group">
172                                 <div class="input-group-prepend">
173                                     <div class="input-group-text">Rp</div>
174                                 </div>
175                                 <input type="text" name="denda" class="form-control" />
176                             </div>
177                         </div>
178                         <div class="form-group col-md-6">
179                             <label>ID Buku</label>
180                             <select name="id_buku" class="form-control">
181                                 {% for item in id_buku %}
182                                     <option value="{{ item[0] }}>{{ item[0] }} - {{ item[1] }}</option>
183                                 {% endfor %}
184                             </select>
185                         </div>
186                         <div class="form-group col-md-6">
187                             <label>ID Anggota</label>
188                             <select name="id_anggota" class="form-control">
189                                 {% for item in id_anggota %}
190                                     <option value="{{ item[0] }}>{{ item[0] }} - {{ item[1] }}</option>
191                                 {% endfor %}
192                             </select>
193                         </div>
194                     </div>
195                 </div>
196             </div>
197         </form>
198     </section>
199 </div>
```



```
194         </div>
195         <div class="form-group col-md-6">
196             <label>ID Petugas</label>
197             <select name="id_petugas" class="form-control">
198                 {% for item in id_petugas %}
199                     <option value="{{ item[0] }}>{{ item[0] }} - {{ item[1] }}</option>
200                 {% endfor %}
201             </select>
202         </div>
203     </div>
204     <div class="row">
205         <div class="col-12">
206             <a href="{{ url_for('pengembalian') }}" class="btn btn-secondary">Cancel</a>
207             <button type="submit" class="btn btn-success float-right toastrDefaultSuccess">Submit</button>
208         </div>
209     </div>
210     </form>
211     </div>
212     </section>
213 </div>
214 <footer class="main-footer">
215     <strong>Copyright © 2022 <a href="{{ url_for('index') }}">Shoffan Darul Mufti</a>.</strong>
216     All rights reserved.
217     <div class="float-right d-none d-sm-inline-block"><b>Version</b> 1.0</div>
218 </footer>
219 <aside class="control-sidebar control-sidebar-dark"></aside>
220 </div>
221 <script src="../static/plugins/jquery/jquery.min.js"></script>
222 <script src="../static/plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
223 <script src="../static/plugins/select2/js/select2.full.min.js"></script>
224 <script src="../static/plugins/bootstrap-dualListBox/jquery.bootstrapDualListBox.min.js"></script>
225 <script src="../static/plugins/moment/moment.min.js"></script>
226 <script src="../static/plugins/inputmask/jquery.inputmask.min.js"></script>
227 <script src="../static/plugins/daterangepicker/daterangepicker.js"></script>
228 <script src="../static/plugins/bootstrap-colorpicker/js/bootstrap-colorpicker.min.js"></script>
229 <script src="../static/plugins/tempusdominus-bootstrap-4/js/tempusdominus-bootstrap-4.min.js"></script>
230 <script src="../static/plugins/bootstrap-switch/js/bootstrap-switch.min.js"></script>
231 <script src="../static/plugins/bs-stepper/js/bs-stepper.min.js"></script>
232 <script src="../static/plugins/dropzone/min/dropzone.min.js"></script>
233 <script src="../static/plugins/summernote/summernote-bs4.min.js"></script>
234 <script src="../static/js/adminlte.min.js"></script>
235 <script>...</script>
236 </body>
237 </html>
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```

## Source Code Python:

```
99
100 @application.route('/pengembalianAdd', methods=['GET', 'POST'])
101 def pengembalianAdd():
102     if request.method == 'GET':
103         id_buku_json = getMethod("SELECT id_buku, judul_buku FROM `buku`")
104         id_anggota_json = getMethod("SELECT id_anggota, nama_anggota FROM `anggota`")
105         id_petugas_json = getMethod("SELECT id_petugas, nama_petugas FROM `petugas`")
106         return render_template('pengembalianAdd.html', id_buku = id_buku_json, id_anggota = id_anggota_json, id_petugas = id_petugas_json)
107     elif request.method == 'POST':
108         id = request.form['id']
109         tanggal_kembali = request.form['tanggal_kembali']
110         denda = request.form['denda']
111         id_buku = request.form['id_buku']
112         id_anggota = request.form['id_anggota']
113         id_petugas = request.form['id_petugas']
114         postMethod("INSERT INTO `pengembalian` ('id_pengembalian', 'tanggal_pengembalian', 'denda', 'id_buku', 'id_anggota', 'id_petugas') VALUES ('"
115             "+id+"', '"+tanggal_kembali+"', '"+denda+"', '"+id_buku+"', '"+id_anggota+"', '"+id_petugas+"');", 'Data pengembalian Berhasil Ditambah')
```

Hasilnya seperti berikut:

Tambah Pengembalian Baru

localhost:5000/pengembalianAdd

Perpustakaan TMJ

Shoffan Darul M.

Search

Dashboard

Peminjaman

**Pengembalian**

Tabel Buku

Tabel Rak

Tabel Anggota

Tabel Petugas

Form Tambah Pengembalian Baru

ID Pengembalian (yyMMddxxx)

221119002

Tanggal Pengembalian

2022-11-19

Denda

Rp 15000

ID Buku

1003 - Tumbuh Dari Luka

ID Anggota

2107421011 - Ai Haibara

ID Petugas

5001 - Pak Ainota

Cancel

Submit

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Version 1.0

Anggota

localhost:5000/pengembalian

Perpustakaan TMJ

Shoffan Darul M.

Search

Dashboard

Peminjaman

**Pengembalian**

Tabel Buku

Tabel Rak

Tabel Anggota

Tabel Petugas

Tabel Pengembalian

Data pengembalian Berhasil Ditambah

Tambah Pengembalian Baru

ID Pengembalian	Tanggal Kembali	Denda	ID Buku	ID Anggota	ID Petugas	Aksi
221119002	2022-11-19	15000	1003	2107421011	5001	<button>Edit</button> <button>Delete</button>
2147483647	2022-11-19	0	1002	2107421010	5002	<button>Edit</button> <button>Delete</button>

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Version 1.0

## 11. Membuat Form Update Pengembalian

Di dalam menu Pengembalian, ada tombol untuk Update Pengembalian. Update Pengembalian berfungsi untuk mengubah data Pengembalian dari tabel.

Source Code HTML:

```
File Edit Selection View Go Run Terminal Help pengembalianUpdate.html - SourceCode_2107421009_ShoffanDarulMufti - Visual ... □ □ □ □ □ ...
ashboard.html peminjaman.html main.py pengembalianUpdate.html pengembalian.html peminjamanUpdate.html peminjamanAdd.htm ...
App > templates > pengembalianUpdate.html > head > meta
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="utf-8" />
5      <meta name="viewport" content="width=device-width, initial-scale=1" />
6      <title>Update Data Pengembalian</title>
7      <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700&display=fallback" />
8      <link rel="stylesheet" href="..static/plugins/fontawesome-free/css/all.min.css" />
9      <link rel="stylesheet" href="..static/plugins/daterangepicker/daterangepicker.css" />
10     <link rel="stylesheet" href="..static/plugins/checkbox-bootstrap/checkbox-bootstrap.min.css" />
11     <link rel="stylesheet" href="..static/plugins/bootstrap-colorpicker/css/bootstrap-colorpicker.min.css" />
12     <link rel="stylesheet" href="..static/plugins/tempusdominus-bootstrap-4/css/tempusdominus-bootstrap-4.min.css" />
13     <link rel="stylesheet" href="..static/plugins/select2/css/select2.min.css" />
14     <link rel="stylesheet" href="..static/plugins/select2-bootstrap4-theme/select2-bootstrap4.min.css" />
15     <link rel="stylesheet" href="..static/plugins/bootstrap-dualListBox/bootstrap-duallistbox.min.css" />
16     <link rel="stylesheet" href="..static/plugins/bs-stepper/css/bs-stepper.min.css" />
17     <link rel="stylesheet" href="..static/plugins/dropzone/min/dropzone.min.css" />
18     <link rel="stylesheet" href="..static/plugins/summernote/summernote-bs4.min.css" />
19     <link rel="stylesheet" href="..static/css/adminlte.min.css" />
20 </head>
21 <body class="hold-transition dark-mode sidebar-mini layout-fixed layout-navbar-fixed layout-footer-fixed">
22     <div class="wrapper">
23         <nav class="main-header navbar navbar-expand navbar-dark">
24             <ul class="navbar-nav">
25                 <li class="nav-item">
26                     <a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
27                 </li>
28                 <li class="nav-item d-none d-sm-inline-block"></li>
29             </ul>
30             <ul class="navbar-nav ml-auto">
31                 <li class="nav-item">
32                     <a class="nav-link" data-widget="navbar-search" href="#" role="button">
33                         <i class="fas fa-search"></i>
34                     </a>
35                     <div class="navbar-search-block">
36                         <form class="form-inline">
37                             <div class="input-group input-group-sm">
38                                 <input class="form-control form-control-navbar" type="search" placeholder="Search" aria-label="Search" />
39                                 <div class="input-group-append">
40                                     <button class="btn btn-navbar" type="submit">
41                                         <i class="fas fa-search"></i>
42                                     </button>
43                                     <button class="btn btn-navbar" type="button" data-widget="navbar-search">
44                                         <i class="fas fa-times"></i>
45                                     </button>
46                             </div>
47                         </div>
48                     </form>
49                 </div>
50             </li>
51             <li class="nav-item">
52                 <a class="nav-link" data-widget="fullscreen" href="#" role="button">
53                     <i class="fas fa-expand-arrows-alt"></i>
54                 </a>
55             </li>
56             <li class="nav-item">
57                 <a class="nav-link" data-widget="control-sidebar" data-slide="true" href="#" role="button">
58                     <i class="fas fa-th-large"></i>
59                 </a>
60             </li>
61             <li class="nav-item">
62                 <a class="nav-link btn btn-sm btn-danger" href="{{ url_for('index') }}" role="button"><i class="fas fa-sign-out-alt mr-2"></i>Log Out</a>
63             </li>
64         </ul>
65     </nav>
66     <aside class="main-sidebar sidebar-dark-primary elevation-4">
67         <a href="{{ url_for('dashboard') }}" class="brand-link">
68             
69             <span class="brand-text font-weight-light">Perpustakaan TMJ</span>
70         </a>
71         <div class="sidebar">
72             <div class="user-panel mt-3 pb-3 mb-3 d-flex">
73                 <div class="image">
74                     
75                 </div>
76                 <div class="info">
77                     <a href="#" class="d-block">Shoffan Darul M.</a>
78                 </div>
79             </div>
80             <div class="form-inline">
81                 <div class="input-group" data-widget="sidebar-search">
82                     <input class="form-control form-control-sidebar" type="search" placeholder="Search" aria-label="Search" />
83                     <div class="input-group-append">
84                         <button class="btn btn-sidebar">
85                             <i class="fas fa-search fa-fw"></i>
86                         </button>
87                     </div>
88                 </div>
89             </div>
90         </div>
91     </aside>
92 
```

```
File Edit Selection View Go Run Terminal ... pengembalianUpdate.html - SourceCode_2107421009_ShoffanDarulMufti - Visual S... □ □ □ □ □ - □ X
ashboard.html peminjaman.html main.py pengembalianUpdate.html pengembalian.html peminjamanUpdate.html peminjamanAdd.htm ...
App > templates > pengembalianUpdate.html > html > head > meta
 90 </ul>
 91 <nav class="mt-2">
 92   <ul class="nav nav-pills nav-sidebar flex-column" data-widget="treeview" role="menu" data-accordion="false">
 93     <li class="nav-item menu-open">
 94       <a href="{{ url_for('dashboard') }}" class="nav-link">
 95         <i class="nav-icon fas fa-tachometer-alt"></i>
 96         <p>Dashboard</p>
 97       </a>
 98     </li>
 99     <li class="nav-item">
100       <a href="{{ url_for('peminjaman') }}" class="nav-link">
101         <i class="nav-icon fas fa-arrow-alt-circle-up"></i>
102         <p>Peminjaman</p>
103       </a>
104     </li>
105     <li class="nav-item active">
106       <a href="{{ url_for('pengembalian') }}" class="nav-link active">
107         <i class="nav-icon fas fa-arrow-alt-circle-down"></i>
108         <p>Pengembalian</p>
109       </a>
110     </li>
111     <li class="nav-item">
112       <a href="{{ url_for('buku') }}" class="nav-link">
113         <i class="nav-icon fas fa-book"></i>
114         <p>Tabel Buku</p>
115       </a>
116     </li>
117     <li class="nav-item">
118       <a href="{{ url_for('rak') }}" class="nav-link">
119         <i class="nav-icon fas fa-bookmark"></i>
120         <p>Tabel Rak</p>
121       </a>
122     </li>
123     <li class="nav-item">
124       <a href="{{ url_for('anggota') }}" class="nav-link">
125         <i class="nav-icon fas fa-user"></i>
126         <p>Tabel Anggota</p>
127       </a>
128     </li>
129     <li class="nav-item">
130       <a href="{{ url_for('petugas') }}" class="nav-link">
131         <i class="nav-icon fas fa-user"></i>
132         <p>Tabel Petugas</p>
133       </a>
134     </li>
135   </ul>
136 </nav>
137 </div>
138 </aside>
139 <div class="content-wrapper">
140   <section class="content-header">
141     <div class="container-fluid">
142       <div class="row mb-2"></div>
143     </div>
144   </section>
145   <section class="content">
146     {% block content %}>
147     <form method="POST">
148       <div class="card card-primary">
149         <div class="card-header">
150           <h3 class="card-title">Form Update Pengembalian</h3>
151           <div class="card-tools">
152             <button type="button" class="btn btn-tool" data-card-widget="collapse" title="Collapse">
153               <i class="fas fa-minus"></i>
154             </button>
155           </div>
156         </div>
157         <div class="card-body">
158           <div class="row">
159             {% for item in data_lama %}
160               <div class="form-group col-md-6">
161                 <label>ID Pengembalian (yyMMddxx)</label>
162                 <input type="text" name="id" class="form-control" value="{{ item[0] }}"/>
163               </div>
164               <div class="form-group col-md-6">
165                 <label>Tanggal Pengembalian</label>
166                 <div class="input-group date" id="reservationdate" data-target-input="nearest">
167                   <input type="text" class="form-control datetimepicker-input" data-target="#reservationdate" name="tanggal_kembali" value="{{ item[1] }}"/>
168                   <div class="input-group-append" data-target="#reservationdate" data-toggle="datetimepicker">
169                     <div class="input-group-text"><i class="fa fa-calendar"></i></div>
170                   </div>
171                 </div>
172               </div>
173               <div class="form-group col-md-6">
174                 <label>Denda</label>
175                 <div class="input-group">
176                   <div class="input-group-append">
177                     <div class="input-group-text">Rp</div>
178                   </div>
179                   <input type="text" name="denda" class="form-control" value="{{ item[2] }}"/>
180                 </div>
181             {% endfor %}
182             <div class="form-group col-md-6">
183               <label>ID Buku</label>
184               <select name="id_buku" class="form-control">
185                 {% for item in id_buku %}
186                   <option value="{{ item[0] }}>{{ item[0] }} - {{ item[1] }}</option>
187                 {% endfor %}
188               </select>
189             </div>

```

```

190 <div class="form-group col-md-6">
191   <label>ID Anggota</label>
192   <select name="id_anggota" class="form-control">
193     {% for item in id_anggota %}
194       <option value="{{ item[0] }}>{{ item[0] }} - {{ item[1] }}</option>
195     {% endfor %}
196   </select>
197 </div>
198 <div class="form-group col-md-6">
199   <label>ID Petugas</label>
200   <select name="id_petugas" class="form-control">
201     {% for item in id_petugas %}
202       <option value="{{ item[0] }}>{{ item[0] }} - {{ item[1] }}</option>
203     {% endfor %}
204   </select>
205 </div>
206 </div>
207 </div>
208 <div class="row">
209   <div class="col-12">
210     <a href="{% url_for('pengembalian') %}" class="btn btn-secondary">Cancel</a>
211     <button type="submit" class="btn btn-success float-right toastrDefaultSuccess">Submit</button>
212   </div>
213 </div>
214 </form>
215 {% endblock %}
216 </section>
217 </div>
218 <footer class="main-footer">
219   <strong>Copyright &copy; 2022 <a href="{% url_for('index') %}">Shoffan Darul Mufti</a>.</strong>
220   All rights reserved.
221   <div class="float-right d-none d-sm-inline-block"><b>Version</b> 1.0</div>
222 </footer>
223 <aside class="control-sidebar control-sidebar-dark"></aside>
224 </div>
225 <script src="/static/plugins/jquery/jquery.min.js"></script>
226 <script src="/static/plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
227 <script src="/static/plugins/select2/js/select2.full.min.js"></script>
228 <script src="/static/plugins/bootstrap4-duallistbox/jquery.bootstrap-duallistbox.min.js"></script>
229 <script src="/static/plugins/moment/moment.min.js"></script>
230 <script src="/static/plugins/inputmask/jquery.inputmask.min.js"></script>
231 <script src="/static/plugins/daterangepicker/daterangepicker.js"></script>
232 <script src="/static/plugins/bootstrap-colorpicker/js/bootstrap-colorpicker.min.js"></script>
233 <script src="/static/plugins/tempusdominus-bootstrap-4/js/tempusdominus-bootstrap-4.min.js"></script>
234 <script src="/static/plugins/bootstrap-switch/js/bootstrap-switch.min.js"></script>
235 <script src="/static/plugins/bs-stepper/js/bs-stepper.min.js"></script>
236 <script src="/static/plugins/dropzone/min/dropzone.min.js"></script>
237 <script src="/static/plugins/summernote/summernote-bs4.min.js"></script>
238 <script src="/static/js/adminlte.min.js"></script>
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369 </html>

```

## Source Code Python:

```

110
111 @application.route('/pengembalianUpdate/<int:id>', methods=['GET', 'POST'])
112 def pengembalianUpdate(id):
113   if request.method == 'GET':
114     data_lama = getMethod("SELECT * from pengembalian WHERE id_pengembalian='"+str(id)+"';")
115     print(data_lama)
116     id_buku_json = getMethod("SELECT id_buku, judul_buku FROM `buku`")
117     id_anggota_json = getMethod("SELECT id_anggota, nama_anggota FROM `anggota`")
118     id_petugas_json = getMethod("SELECT id_petugas, nama_petugas FROM `petugas`")
119     return render_template('pengembalianUpdate.html', data_lama = data_lama, id_buku = id_buku_json, id_anggota = id_anggota_json, id_petugas = id_petugas_json)
120   elif request.method == 'POST':
121     id = request.form['id']
122     tanggal_kembali = request.form['tanggal_kembali']
123     denda = request.form['denda']
124     id_buku = request.form['id_buku']
125     id_anggota = request.form['id_anggota']
126     id_petugas = request.form['id_petugas']
127     postMethod("UPDATE `pengembalian` SET `id_pengembalian` = '"+id+"', `tanggal_pengembalian` = '"+tanggal_kembali+"', `denda` = '"+denda+"', `id_buku` = '"+id_buku+"', `id_anggota` = '"+id_anggota+"', `id_petugas` = '"+id_petugas+"' WHERE `pengembalian`.`id_pengembalian` = "+str(id)+"");
128     return redirect(url_for('pengembalian'))
129
130
131
132
133
134
135

```

Hasilnya seperti berikut:

Update Data Pengembalian

localhost:5000/pengembalianUpdate/221119002

Perpustakaan TMJ

Shoffan Darul M.

Form Update Pengembalian

ID Pengembalian (yyMMddxxx)	221119002	Tanggal Pengembalian	2022-11-19
Denda	Rp 50000	ID Buku	1003 - Tumbuh Dari Luka
ID Anggota	2107421011 - Ai Haibara	ID Petugas	5001 - Pak Ainota

Cancel      Submit

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Anggota

localhost:5000/pengembalian

Perpustakaan TMJ

Shoffan Darul M.

Tabel Pengembalian

Data pengembalian Berhasil Diubah

ID Pengembalian	Tanggal Kembali	Denda	ID Buku	ID Anggota	ID Petugas	Aksi
221119002	2022-11-19	50000	1003	2107421011	5001	<button>Edit</button> <button>Delete</button>
2147483647	2022-11-19	0	1002	2107421010	5002	<button>Edit</button> <button>Delete</button>

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## 12. Membuat Form Delete Pengembalian

Di dalam menu Pengembalian, ada tombol untuk Delete Pengembalian. Delete Pengembalian berfungsi untuk menghapus data Pengembalian dari tabel.

Source Code Python:

```
135
136     @application.route('/pengembalianDelete/<int:id>', methods=['GET'])
137     def pengembalianDelete(id):
138         if request.method == 'GET':
139             postMethod("DELETE FROM `pengembalian` WHERE `pengembalian`.`id_pengembalian` = '"+str(id)+"'", 'Data pengembalian Berhasil Dihapus')
140             return redirect(url_for('pengembalian'))
141
```

Hasilnya seperti berikut:

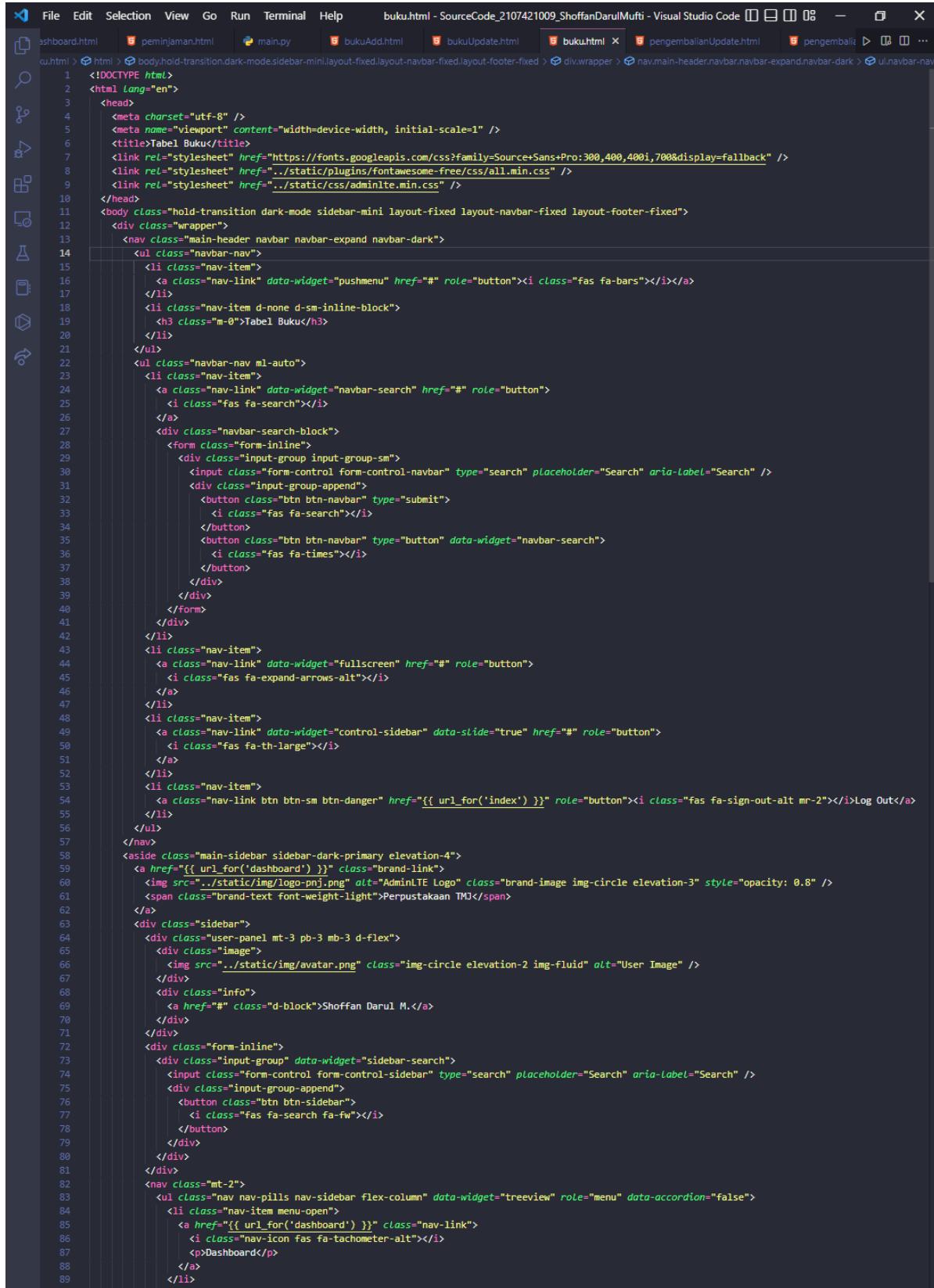
The screenshot shows a web application interface for managing library loans. On the left is a sidebar with navigation links: Anggota, Dashboard, Peminjaman, Pengembalian (selected), Tabel Buku, Tabel Rak, Tabel Anggota, and Tabel Petugas. The main content area is titled "Tabel Pengembalian". A modal dialog box is centered over the table, displaying the message "Data pengembalian Berhasil Diubah". Inside the modal, there is a confirmation message: "localhost:5000 Are you sure you want to delete?". Below the message are two buttons: "OK" and "Cancel". The table itself contains two rows of data with columns: ID Pengembalian, Tanggal Kembali, Denda, ID Buku, ID Anggota, ID Petugas, and Aksi (with Edit and Delete buttons). At the bottom of the page, the footer includes the copyright notice "Copyright © 2022 Shoffan Darul Mufti. All rights reserved." and "Version 1.0".

This screenshot shows the same web application after the deletion process has been completed. The confirmation dialog from the previous screenshot has disappeared, and the table now only displays one row of data. The footer at the bottom of the page remains the same, indicating "Copyright © 2022 Shoffan Darul Mufti. All rights reserved." and "Version 1.0".

### 13. Membuat Tabel Buku

Di dalam dashboard, ada menu Tabel Buku. Menu Tabel Buku berisikan tabel daftar Tabel Buku yang ada.

Source Code HTML:



```
1  <!DOCTYPE html>
2  <html lang="en">
3    <head>
4      <meta charset="utf-8" />
5      <meta name="viewport" content="width=device-width, initial-scale=1" />
6      <title>Tabel Buku</title>
7      <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700&display=fallback" />
8      <link rel="stylesheet" href="../../static/plugins/fontawesome-free/css/all.min.css" />
9      <link rel="stylesheet" href="../../static/css/adminlte.min.css" />
10     </head>
11    <body class="hold-transition dark-mode sidebar-mini layout-fixed layout-navbar-fixed layout-footer-fixed">
12      <div class="wrapper">
13        <nav class="main-header navbar navbar-expand navbar-dark">
14          <ul class="navbar-nav">
15            <li class="nav-item">
16              <a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
17            </li>
18            <li class="nav-item d-none d-sm-inline-block">
19              <h3 class="m-0">Tabel Buku</h3>
20            </li>
21          </ul>
22          <ul class="navbar-nav ml-auto">
23            <li class="nav-item">
24              <a class="nav-link" data-widget="navbar-search" href="#" role="button">
25                <i class="fas fa-search"></i>
26              </a>
27              <div class="navbar-search-block">
28                <form class="form-inline">
29                  <div class="input-group input-group-sm">
30                    <input class="form-control form-control-navbar" type="search" placeholder="Search" aria-label="Search" />
31                    <div class="input-group-append">
32                      <button class="btn btn-navbar" type="submit">
33                        <i class="fas fa-search"></i>
34                      </button>
35                      <button class="btn btn-navbar" type="button" data-widget="navbar-search">
36                        <i class="fas fa-times"></i>
37                      </button>
38                    </div>
39                  </div>
40                </form>
41              </div>
42            </li>
43            <li class="nav-item">
44              <a class="nav-link" data-widget="fullscreen" href="#" role="button">
45                <i class="fas fa-expand-arrows-alt"></i>
46              </a>
47            </li>
48            <li class="nav-item">
49              <a class="nav-link" data-widget="control-sidebar" data-slide="true" href="#" role="button">
50                <i class="fas fa-th-large"></i>
51              </a>
52            </li>
53            <li class="nav-item">
54              <a class="nav-link btn btn-sm btn-danger" href="{{ url_for('index') }}" role="button"><i class="fas fa-sign-out-alt mr-2"></i>Log Out</a>
55            </li>
56          </ul>
57        </nav>
58        <aside class="main-sidebar sidebar-dark-primary elevation-4">
59          <a href="{{ url_for('dashboard') }}" class="brand-link">
60            
61            <span class="brand-text font-weight-light">Perpustakaan TMJ</span>
62          </a>
63          <div class="sidebar">
64            <div class="user-panel mt-3 pb-3 mb-3 d-flex">
65              <div class="image">
66                
67              </div>
68              <div class="info">
69                <a href="#" class="d-block">Shoffan Darul M.</a>
70              </div>
71            </div>
72            <div class="form-inline">
73              <div class="input-group" data-widget="sidebar-search">
74                <input class="form-control form-control-sidebar" type="search" placeholder="Search" aria-label="Search" />
75                <div class="input-group-append">
76                  <button class="btn btn-sidebar">
77                    <i class="fas fa-search fa-fw"></i>
78                  </button>
79                </div>
80              </div>
81            </div>
82            <nav class="mt-2">
83              <ul class="nav nav-pills nav-sidebar flex-column" data-widget="treeview" role="menu" data-accordion="false">
84                <li class="nav-item menu-open">
85                  <a href="{{ url_for('dashboard') }}" class="nav-link">
86                    <i class="nav-icon fas fa-tachometer-alt"></i>
87                    <p>Dashboard</p>
88                  </a>
89                </li>
90              </ul>
91            </nav>
92          </div>
93        </aside>
94      </div>
95    </body>
96  </html>
```

The screenshot shows the Visual Studio Code interface with the file `buku.html` open. The code is a template for a sidebar navigation menu, likely for a Django application given the URL patterns and context variables.

```
<ul class="nav flex-column">
    <li class="nav-item">
        <a href="{{ url_for('peminjaman') }}" class="nav-link">
            <i class="nav-icon fas fa-arrow-alt-circle-up"></i>
            <p>Peminjaman</p>
        </a>
    </li>
    <li class="nav-item">
        <a href="{{ url_for('pengembalian') }}" class="nav-link">
            <i class="nav-icon fas fa-arrow-alt-circle-down"></i>
            <p>Pengembalian</p>
        </a>
    </li>
    <li class="nav-item">
        <a href="{{ url_for('buku') }}" class="nav-link active">
            <i class="nav-icon fas fa-book"></i>
            <p>Tabel Buku</p>
        </a>
    </li>
    <li class="nav-item">
        <a href="{{ url_for('rak') }}" class="nav-link">
            <i class="nav-icon fas fa-bookmark"></i>
            <p>Tabel Rak</p>
        </a>
    </li>
    <li class="nav-item">
        <a href="{{ url_for('anggota') }}" class="nav-link">
            <i class="nav-icon fas fa-user"></i>
            <p>Tabel Anggota</p>
        </a>
    </li>
    <li class="nav-item">
        <a href="{{ url_for('petugas') }}" class="nav-link">
            <i class="nav-icon fas fa-user"></i>
            <p>Tabel Petugas</p>
        </a>
    </li>
</ul>
```

The code includes logic for handling messages and rendering a table of books. The table has columns for ID Buku, Kode Buku, Judul Buku, Penulis Buku, Penerbit Buku, Tahun Terbit, Stok, and Aksi. Each row contains links to edit or delete specific book details.

```

194         <td class="project-actions">
195             <a class="btn btn-info btn-sm" href="bukuUpdate/{{ item[0] }}">
196                 <i class="fas fa-pencil-alt"></i>
197                 Edit
198             </a>
199             <a class="btn btn-danger btn-sm" href="bukuDelete/{{ item[0] }}" onclick="return confirm('Are you sure you want to delete?');">
200                 <i class="fas fa-trash"></i>
201                 Delete
202             </a>
203         </td>
204     </tr>
205     {% endif %}
206 </tbody>
207 </table>
208 </div>
209 </div>
210 </section>
211 </div>
212 <footer class="main-footer">
213     <strong>Copyright © 2022 <a href="{{ url_for('index') }}>Shoffan Darul Mufti</a>.</strong>
214     All rights reserved.
215     <div class="float-right d-none d-sm-inline-block"><b>Version</b> 1.0</div>
216 </footer>
217 <aside class="control-sidebar control-sidebar-dark"></aside>
218 </div>
219 <script src="../../static/plugins/jquery/jquery.min.js"></script>
220 <script src="../../static/plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
221 <script src="../../static/js/adminlte.min.js"></script>
222 </body>
223 </html>
224

```

Source Code Python:

```

141 @application.route('/buku')
142 def buku():
143     output_json = getMethod("SELECT * from buku")
144     return render_template('buku.html',kalimat=output_json)
145
146

```

Hasilnya seperti berikut:

ID Buku	Kode Buku	Judul Buku	Penulis Buku	Penerbit Buku	Tahun Terbit	Stok	Aksi
1002	U-SI	Teman Berjuang	Indra Sugiarto	Indra	2015	100	<button>Edit</button> <button>Delete</button>
1003	U-SI	Tumbuh Dari Luka	Indra Sugiarto	Indra	2020	69	<button>Edit</button> <button>Delete</button>

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## 14. Membuat Form Tambah Buku

Di dalam menu Tabel Buku, ada tombol untuk Tambah Buku. Tambah Buku berfungsi untuk menambahkan Buku baru ke tabel.

Source Code HTML:

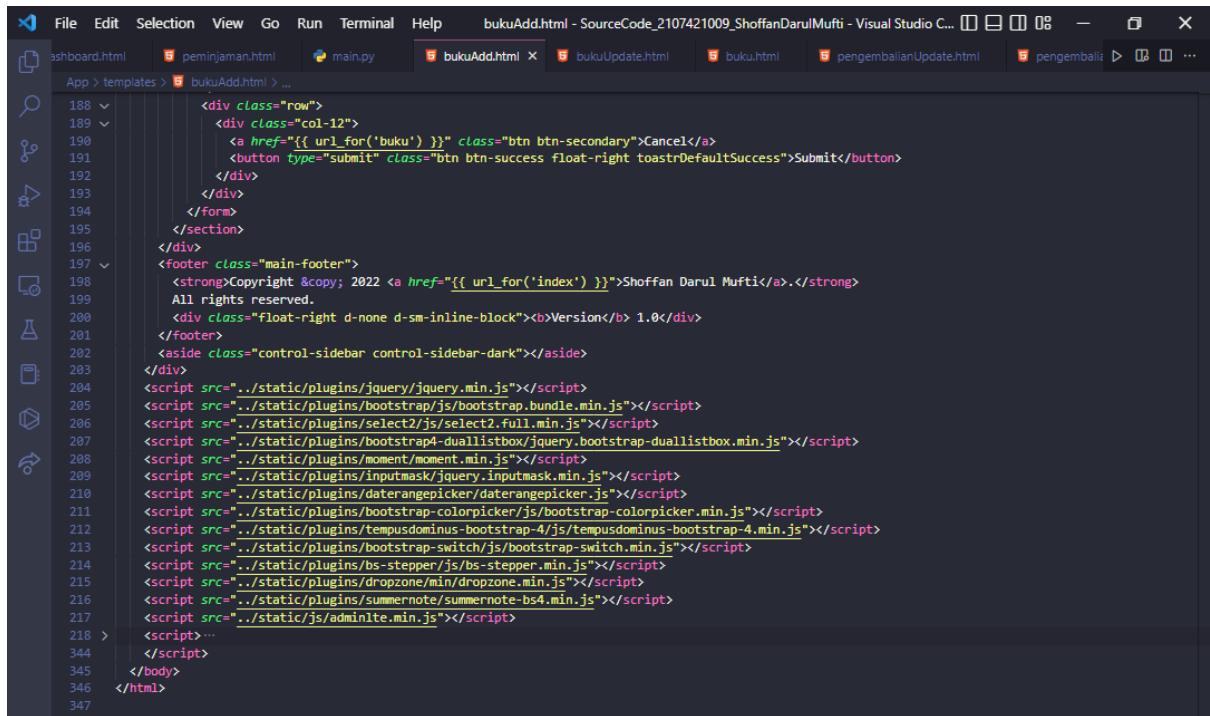


The screenshot shows the Visual Studio Code interface with the 'bukuAdd.html' file open in the center. The file contains the HTML code for a form to add a new book. The code includes meta tags for character encoding and viewport, a title 'Tambah Buku Baru', and a head section with various CSS links. The body contains a navigation bar with items like 'pushmenu', 'search', and 'fullscreen'. Below the nav bar is a sidebar with a user profile picture and name 'Shoffan Darul M.'. The main content area contains a form with input fields for book details such as title, author, publisher, and quantity, followed by a submit button labeled 'Simpan'.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <title>Tambah Buku Baru</title>
    <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,700&display=fallback" />
    <link rel="stylesheet" href=".static/plugins/fontawesome-free/css/all.min.css" />
    <link rel="stylesheet" href=".static/plugins/daterangepicker/daterangepicker.css" />
    <link rel="stylesheet" href=".static/plugins/icheck-bootstrap/icheck-bootstrap.min.css" />
    <link rel="stylesheet" href=".static/plugins/bootstrap-colorpicker/css/bootstrap-colorpicker.min.css" />
    <link rel="stylesheet" href=".static/plugins/tempusdominus-bootstrap-4/css/tempusdominus-bootstrap-4.min.css" />
    <link rel="stylesheet" href=".static/plugins/select2/css/select2.min.css" />
    <link rel="stylesheet" href=".static/plugins/select2-bootstrap4-theme/select2-bootstrap4.min.css" />
    <link rel="stylesheet" href=".static/plugins/bootstrap4-duallistbox/bootstrap4-duallistbox.min.css" />
    <link rel="stylesheet" href=".static/plugins/bs-stepper/css/bs-stepper.min.css" />
    <link rel="stylesheet" href=".static/plugins/dropzone/min/dropzone.min.css" />
    <link rel="stylesheet" href=".static/plugins/summernote/summernote-bs4.min.css" />
    <link rel="stylesheet" href=".static/css/adminlte.min.css" />
</head>
<body class="hold-transition dark-mode sidebar-mini layout-fixed layout-navbar-fixed layout-footer-fixed">
    <div class="wrapper">
        <nav class="main-header navbar navbar-expand navbar-dark">
            <ul class="navbar-nav">
                <li class="nav-item">
                    <a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
                </li>
                <li class="nav-item d-none d-sm-inline-block"></li>
            </ul>
            <ul class="navbar-nav ml-auto">
                <li class="nav-item">
                    <a class="nav-link" data-widget="navbar-search" href="#" role="button">
                        <i class="fas fa-search"></i>
                    </a>
                    <div class="navbar-search-block">
                        <form class="form-inline">
                            <div class="input-group input-group-sm">
                                <input class="form-control form-control-navbar" type="search" placeholder="Search" aria-label="Search" />
                                <div class="input-group-append">
                                    <button class="btn btn-navbar" type="submit">
                                        <i class="fas fa-search"></i>
                                    </button>
                                    <button class="btn btn-navbar" type="button" data-widget="navbar-search">
                                        <i class="fas fa-times"></i>
                                    </button>
                                </div>
                            </div>
                            </form>
                        </div>
                    </li>
                    <li class="nav-item">
                        <a class="nav-link" data-widget="fullscreen" href="#" role="button">
                            <i class="fas fa-expand-arrows-alt"></i>
                        </a>
                    </li>
                    <li class="nav-item">
                        <a class="nav-link" data-widget="control-sidebar" data-slide="true" href="#" role="button">
                            <i class="fas fa-th-large"></i>
                        </a>
                    </li>
                    <li class="nav-item">
                        <a class="nav-link btn btn-sm btn-danger" href="{{ url_for('index') }}" role="button"><i class="fas fa-sign-out-alt mr-2"></i>Log Out</a>
                    </li>
                </ul>
            </nav>
            <aside class="main-sidebar sidebar-dark-primary elevation-4">
                <a href="{{ url_for('dashboard') }}" class="brand-link">
                    
                    <span class="brand-text font-weight-light">Perpustakaan TMJ</span>
                </a>
                <div class="sidebar">
                    <div class="user-panel mt-3 pb-3 mb-3 d-flex">
                        <div class="image">
                            
                        </div>
                        <div class="info">
                            <a href="#" class="d-block">Shoffan Darul M.</a>
                        </div>
                    </div>
                    <div class="form-inline">
                        <div class="input-group" data-widget="sidebar-search">
                            <input class="form-control form-control-sidebar" type="search" placeholder="Search" aria-label="Search" />
                            <div class="input-group-append">
                                <button class="btn btn-sidebar">
                                    <i class="fas fa-search fa-fw"></i>
                                </button>
                            </div>
                        </div>
                    </div>
                </div>
            </aside>
        </div>
    </body>

```





```
<div class="row">
    <div class="col-12">
        <a href="{{ url_for('buku') }}" class="btn btn-secondary">Cancel</a>
        <button type="submit" class="btn btn-success float-right toastrDefaultSuccess">Submit</button>
    </div>
</div>
</form>
</section>
</div>
<footer class="main-footer">
    <strong>Copyright © 2022 <a href="{{ url_for('index') }}">Shoffan Darul Mufti</a>.</strong>
    All rights reserved.
    <div class="float-right d-none d-sm-inline-block"><b>Version</b> 1.0</div>
</footer>
<aside class="control-sidebar control-sidebar-dark"></aside>
</div>
<script src="../static/plugins/jquery/jquery.min.js"></script>
<script src="../static/plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
<script src="../static/plugins/select2/js/select2.full.min.js"></script>
<script src="../static/plugins/bootstrap4-duallistbox/jquery.bootstrap-duallistbox.min.js"></script>
<script src="../static/plugins/moment/moment.min.js"></script>
<script src="../static/plugins/inputmask/jquery.inputmask.min.js"></script>
<script src="../static/plugins/daterangepicker/daterangepicker.js"></script>
<script src="../static/plugins/bootstrap-colorpicker/js/bootstrap-colorpicker.min.js"></script>
<script src="../static/plugins/tempusdominus-bootstrap-4/js/tempusdominus-bootstrap-4.min.js"></script>
<script src="../static/plugins/bootstrap-switch/js/bootstrap-switch.min.js"></script>
<script src="../static/plugins/bs-stepper/js/bs-stepper.min.js"></script>
<script src="../static/plugins/dropzone/min/dropzone.min.js"></script>
<script src="../static/plugins/summernote/summernote-bs4.min.js"></script>
<script src="../static/js/adminlte.min.js"></script>
<script>...
</script>
</body>
</html>
```

## Source Code Python:



```
146
147 @application.route('/bukuAdd', methods=['GET', 'POST'])
148 def bukuAdd():
149     if request.method == 'GET':
150         return render_template('bukuAdd.html')
151     elif request.method == 'POST':
152         id = request.form['id']
153         kode = request.form['kode']
154         judul = request.form['judul']
155         penulis = request.form['penulis']
156         penerbit = request.form['penerbit']
157         tahun_terbit = request.form['tahun_terbit']
158         stok = request.form['stok']
159         postMethod("INSERT INTO `buku` (`id_buku`, `kode_buku`, `judul_buku`, `penulis_buku`, `penerbit_buku`, `tahun_penerbit`, `stok`) VALUES ('"+id+
160         "','"+kode+"', '"+judul+"','"+penulis+"', '"+penerbit+"', '"+tahun_terbit+"', '"+stok+"');", 'Data buku Berhasil Ditambah')
161         return redirect(url_for('buku'))
```

Hasilnya seperti berikut:

Tambah Buku Baru

localhost:5000/bukuAdd

Perpustakaan TMJ

Shoffan Darul M.

Search

Dashboard

Peminjaman

Pengembalian

**Tabel Buku**

Tabel Rak

Tabel Anggota

Tabel Petugas

Form Tambah Buku Baru

ID Buku	Kode Buku	
1004	TMJ-PG	
Judul Buku	Penulis Buku	
HTML for Beginner	W3School	
Penerbit Buku	Tahun Terbit	Stok
W3School	2022	10

Cancel

Submit

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Tabel Buku

localhost:5000/buku

Perpustakaan TMJ

Shoffan Darul M.

Search

Dashboard

Peminjaman

Pengembalian

**Tabel Buku**

Tabel Rak

Tabel Anggota

Tabel Petugas

Data buku Berhasil Ditambah

ID Buku	Kode Buku	Judul Buku	Penulis Buku	Penerbit Buku	Tahun Terbit	Stok	Aksi
1002	U-SI	Teman Berjuang	Indra Sugiarto	Indra	2015	100	<button>Edit</button> <button>Delete</button>
1003	U-SI	Tumbuh Dari Luka	Indra Sugiarto	Indra	2020	69	<button>Edit</button> <button>Delete</button>
1004	TMJ-P	HTML for Beginner	W3School	W3School	2022	10	<button>Edit</button> <button>Delete</button>

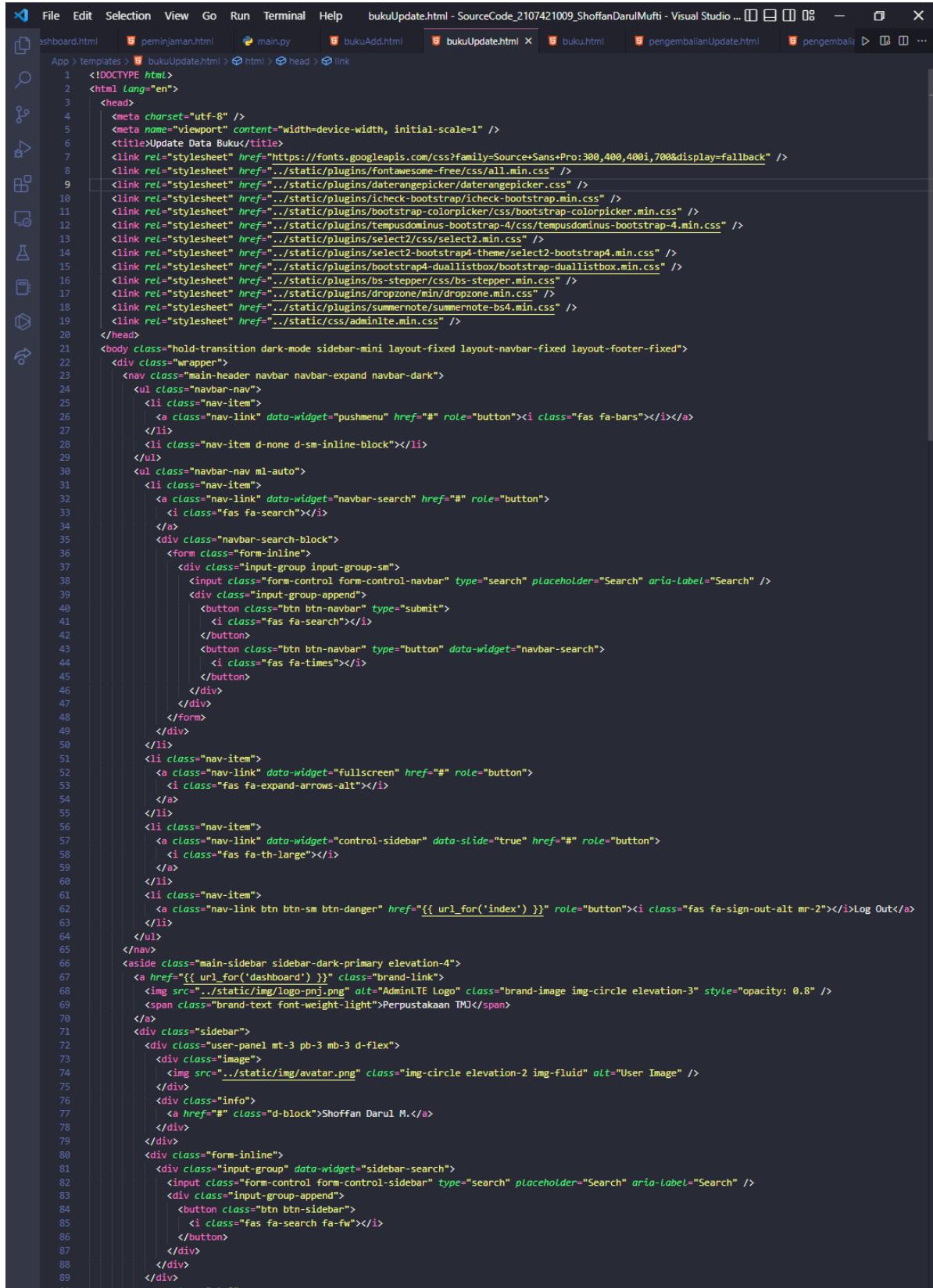
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## 15. Membuat Form Update Buku

Di dalam menu Tabel Buku, ada tombol untuk Update Buku. Update Buku berfungsi untuk mengubah data Buku dari tabel.

Source Code HTML:



The screenshot shows the Visual Studio Code interface with the file 'bukuUpdate.html' open in the center editor tab. The code is an HTML template for updating a book record. It includes a header with meta tags, links to CSS files (bootstrap, datatables, colorpicker, etc.), and a main body with a sidebar and a search bar. The sidebar contains links for dashboard, peminjaman, main.py, bukuAdd, bukuUpdate, buku, pengembalianUpdate, pengembalian, and others. The main content area starts with a title 'Update Data Buku' and a form for updating a book record. The form includes fields for id, judul, penulis, penerbit, tahunTerbit, jumlah, and status. There are also buttons for update, cancel, and delete. The code uses Bootstrap classes like 'form-control', 'btn', and 'table'.

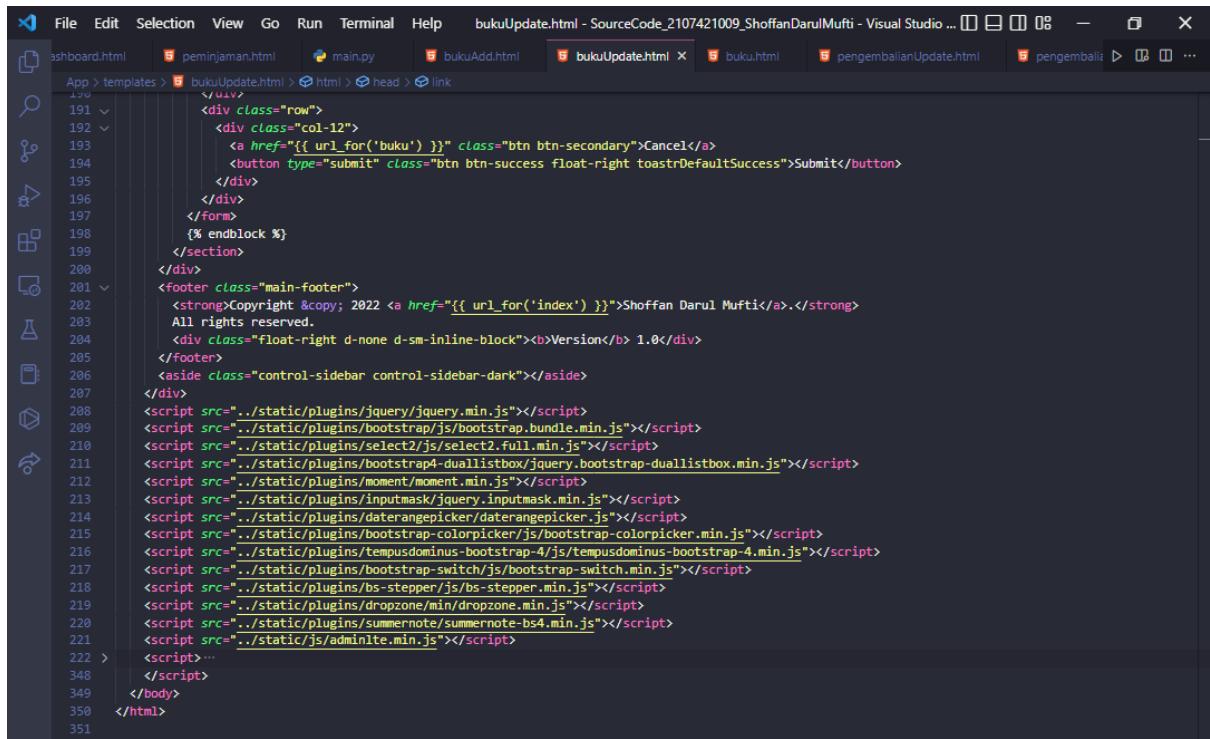
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <title>Update Data Buku</title>
    <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700&display=fallback" />
    <link rel="stylesheet" href="../static/plugins/fontawesome-free/css/all.min.css" />
    <link rel="stylesheet" href="../static/plugins/daterangepicker/daterangepicker.css" />
    <link rel="stylesheet" href="../static/plugins/iCheck-bootstrap/icheck-bootstrap.min.css" />
    <link rel="stylesheet" href="../static/plugins/bootstrap-colorpicker/css/bootstrap-colorpicker.min.css" />
    <link rel="stylesheet" href="../static/plugins/select2/css/select2.min.css" />
    <link rel="stylesheet" href="../static/plugins/select2-bootstrap4-theme/select2-bootstrap4.min.css" />
    <link rel="stylesheet" href="../static/plugins/bootstrap4-duallistbox/bootstrap-duallistbox.min.css" />
    <link rel="stylesheet" href="../static/plugins/bs-stepper/css/bs-stepper.min.css" />
    <link rel="stylesheet" href="../static/plugins/dropzone/min/dropzone.min.css" />
    <link rel="stylesheet" href="../static/plugins/summernote/summernote-bs4.min.css" />
    <link rel="stylesheet" href="../static/css/adminlte.min.css" />
</head>
<body class="hold-transition dark-mode sidebar-mini layout-fixed layout-navbar-fixed layout-footer-fixed">
    <div class="wrapper">
        <nav class="main-header navbar navbar-expand navbar-dark">
            <ul class="navbar-nav">
                <li class="nav-item">
                    <a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
                </li>
                <li class="nav-item d-none d-sm-inline-block"></li>
            </ul>
            <ul class="navbar-nav ml-auto">
                <li class="nav-item">
                    <a class="nav-link" data-widget="navbar-search" href="#" role="button">
                        <i class="fas fa-search"></i>
                    </a>
                    <div class="navbar-search-block">
                        <form class="form-inline">
                            <div class="input-group input-group-sm">
                                <input class="form-control form-control-navbar" type="search" placeholder="Search" aria-label="Search" />
                                <div class="input-group-append">
                                    <button class="btn btn-navbar" type="submit">
                                        <i class="fas fa-search"></i>
                                    </button>
                                    <button class="btn btn-navbar" type="button" data-widget="navbar-search">
                                        <i class="fas fa-times"></i>
                                    </button>
                                </div>
                            </div>
                            </form>
                        </div>
                    </li>
                    <li class="nav-item">
                        <a class="nav-link" data-widget="fullscreen" href="#" role="button">
                            <i class="fas fa-expand-arrows-alt"></i>
                        </a>
                    </li>
                    <li class="nav-item">
                        <a class="nav-link" data-widget="control-sidebar" data-slide="true" href="#" role="button">
                            <i class="fas fa-th-large"></i>
                        </a>
                    </li>
                    <li class="nav-item">
                        <a class="nav-link btn btn-sm btn-danger" href="{{ url_for('index') }}" role="button"><i class="fas fa-sign-out-alt mr-2"></i>Log Out</a>
                    </li>
                </ul>
            </nav>
            <aside class="main-sidebar sidebar-dark-primary elevation-4">
                <a href="{{ url_for('dashboard') }}" class="brand-link">
                    
                    <span class="brand-text font-weight-light">Perpustakaan TMJ</span>
                </a>
                <div class="sidebar">
                    <div class="user-panel mt-3 pb-3 mb-3 d-flex">
                        <div class="image">
                            
                        </div>
                        <div class="info">
                            <a href="#" class="d-block">Shoffan Darul M.</a>
                        </div>
                    </div>
                    <div class="form-inline">
                        <div class="input-group" data-widget="sidebar-search">
                            <input class="form-control form-control-sidebar" type="search" placeholder="Search" aria-label="Search" />
                            <div class="input-group-append">
                                <button class="btn btn-sidebar">
                                    <i class="fas fa-search fa-fw"></i>
                                </button>
                            </div>
                        </div>
                    </div>
                </div>
            </aside>
    </div>

```

```
File Edit Selection View Go Run Terminal Help bukuUpdate.html - SourceCode_2107421009_ShoffanDarulMufti - Visual Studio ... □ □ □ □ □ □ -
```

App > templates > bukuUpdate.html > head > link

```
90     <nav class="mt-2">
91         <ul class="nav nav-pills nav-sidebar flex-column" data-widget="treeview" role="menu" data-accordion="false">
92             <li class="nav-item menu-open">
93                 <a href="{% url_for('dashboard') }" class="nav-link">
94                     <i class="nav-icon fas fa-tachometer-alt"></i>
95                     <p>Dashboard</p>
96                 </a>
97             </li>
98             <li class="nav-item">
99                 <a href="{% url_for('peminjaman') }" class="nav-link">
100                     <i class="nav-icon fas fa-arrow-alt-circle-up"></i>
101                     <p>Peminjaman</p>
102                 </a>
103             </li>
104             <li class="nav-item">
105                 <a href="{% url_for('pengembalian') }" class="nav-link">
106                     <i class="nav-icon fas fa-arrow-alt-circle-down"></i>
107                     <p>Pengembalian</p>
108                 </a>
109             </li>
110             <li class="nav-item">
111                 <a href="{% url_for('buku') }" class="nav-link active">
112                     <i class="nav-icon fas fa-book"></i>
113                     <p>Tabel Buku</p>
114                 </a>
115             </li>
116             <li class="nav-item">
117                 <a href="{% url_for('rak') }" class="nav-link">
118                     <i class="nav-icon fas fa-bookmark"></i>
119                     <p>Tabel Rak</p>
120                 </a>
121             </li>
122             <li class="nav-item">
123                 <a href="{% url_for('anggota') }" class="nav-link">
124                     <i class="nav-icon fas fa-user"></i>
125                     <p>Tabel Anggota</p>
126                 </a>
127             </li>
128             <li class="nav-item">
129                 <a href="{% url_for('petugas') }" class="nav-link">
130                     <i class="nav-icon fas fa-user"></i>
131                     <p>Tabel Petugas</p>
132                 </a>
133             </li>
134         </ul>
135     </nav>
136 </div>
137 </aside>
138 <div class="content-wrapper">
139     <section class="content-header">
140         <div class="container-fluid">
141             <div class="row mb-2"></div>
142         </div>
143     </section>
144     <section class="content">
145         {% block content %}
146         <form method="POST">
147             <div class="card card-primary">
148                 <div class="card-header">
149                     <h3 class="card-title">Form Update Buku</h3>
150                 <div class="card-tools">
151                     <button type="button" class="btn btn-tool" data-card-widget="collapse" title="Collapse">
152                         <i class="fas fa-minus"></i>
153                     </button>
154                 </div>
155             </div>
156             <div class="card-body">
157                 <div class="row">
158                     {% for item in data_lama %}
159                     <div class="form-group col-md-6">
160                         <label>ID Buku</label>
161                         <input type="text" name="id" class="form-control" value="{{ item[0] }}"/>
162                     </div>
163                     <div class="form-group col-md-6">
164                         <label>Kode Buku</label>
165                         <input type="text" name="kode" class="form-control" value="{{ item[2] }}"/>
166                     </div>
167                     <div class="form-group col-md-6">
168                         <label>Judul Buku</label>
169                         <input type="text" name="judul" class="form-control" value="{{ item[1] }}"/>
170                     </div>
171                     <div class="form-group col-md-6">
172                         <label>Penulis Buku</label>
173                         <input type="text" name="penulis" class="form-control" value="{{ item[3] }}"/>
174                     </div>
175                     <div class="form-group col-md-6">
176                         <label>Penerbit Buku</label>
177                         <input type="text" name="penerbit" class="form-control" value="{{ item[4] }}"/>
178                     </div>
179                     <div class="form-group col-md-3">
180                         <label>Tahun Terbit</label>
181                         <input type="text" name="tahun_terbit" class="form-control" value="{{ item[5] }}"/>
182                     </div>
183                     <div class="form-group col-md-3">
184                         <label>Stok</label>
185                         <input type="text" name="stok" class="form-control" value="{{ item[6] }}"/>
186                     </div>
187                     {% endfor %}
188                 </div>
189             </div>
190         </div>
```



```
<div class="row">
    <div class="col-12">
        <a href="{{ url_for('buku') }}" class="btn btn-secondary">Cancel</a>
        <button type="submit" class="btn btn-success float-right toastrDefaultSuccess">Submit</button>
    </div>
</div>
</form>
{% endblock %}</section>
</div>
<footer class="main-footer">
    <strong>Copyright &copy; 2022 <a href="{{ url_for('index') }}>Shoffan Darul Mufti</a>.</strong>
    All rights reserved.
    <div class="float-right d-none d-sm-inline-block"><b>Version</b> 1.0</div>
</footer>
<aside class="control-sidebar control-sidebar-dark"></aside>
</div>
<script src="../../static/plugins/jquery/jquery.min.js"></script>
<script src="../../static/plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
<script src="../../static/plugins/select2/js/select2.full.min.js"></script>
<script src="../../static/plugins/bootstrap4-duallistbox/jquery.bootstrap-duallistbox.min.js"></script>
<script src="../../static/plugins/moment/moment.min.js"></script>
<script src="../../static/plugins/inputmask/jquery.inputmask.min.js"></script>
<script src="../../static/plugins/daterangepicker/daterangepicker.js"></script>
<script src="../../static/plugins/bootstrap-colorpicker/js/bootstrap-colorpicker.min.js"></script>
<script src="../../static/plugins/tempusdominus-bootstrap-4/js/tempusdominus-bootstrap-4.min.js"></script>
<script src="../../static/plugins/bootstrap-switch/js/bootstrap-switch.min.js"></script>
<script src="../../static/plugins/bs-stepper/js/bs-stepper.min.js"></script>
<script src="../../static/plugins/dropzone/min/dropzone.min.js"></script>
<script src="../../static/plugins/summernote/summernote-bs4.min.js"></script>
<script src="../../static/js/adminlte.min.js"></script>
<script>...
</script>
</body>
</html>
```

## Source Code Python:

```
162 @application.route('/bukuUpdate<int:id>', methods=['GET', 'POST'])
163 def bukuUpdate(id):
164     if request.method == 'GET':
165         data_lama = getMethod("SELECT * from buku WHERE id_buku='"+str(id)+"';")
166         return render_template('bukuUpdate.html', data_lama = data_lama)
167     elif request.method == 'POST':
168         id = request.form['id']
169         kode = request.form['kode']
170         judul = request.form['judul']
171         penulis = request.form['penulis']
172         penerbit = request.form['penerbit']
173         tahun_terbit = request.form['tahun_terbit']
174         stok = request.form['stok']
175         postMethod("UPDATE `buku` SET `id_buku` = '"+id+"', `kode_buku` = '"+kode+"', `judul_buku` = '"+judul+"', `penulis_buku` = '"+penulis+"',
176         `penerbit_buku` = '"+penerbit+"', `tahun_penerbit` = '"+tahun_terbit+"', `stok` = '"+stok+"' WHERE `buku`.`id_buku` = "+str(id)+";",
177         'Data buku Berhasil Diubah')
178         return redirect(url_for('buku'))
```

Hasilnya seperti berikut:

Update Data Buku

localhost:5000/bukuUpdate/1004

Perpustakaan TMJ

Shoffan Darul M.

Search

Dashboard Peminjaman Pengembalian Tabel Buku Tabel Rak Tabel Anggota Tabel Petugas

Form Update Buku

ID Buku	Kode Buku	
1004	TMJ-P	
Judul Buku	Penulis Buku	
HTML for Beginner	Shew Czan	
Penerbit Buku	Tahun Terbit	Stok
W3School	2022	100

Cancel Submit

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Tabel Buku

localhost:5000/buku

Perpustakaan TMJ

Shoffan Darul M.

Search

Dashboard Peminjaman Pengembalian Tabel Buku Tabel Rak Tabel Anggota Tabel Petugas

Data buku Berhasil Diubah

Tambah Buku Baru

ID Buku	Kode Buku	Judul Buku	Penulis Buku	Penerbit Buku	Tahun Terbit	Stok	Aksi
1002	U-SI	Teman Berjuang	Indra Sugiarto	Indra	2015	100	<button>Edit</button> <button>Delete</button>
1003	U-SI	Tumbuh Dari Luka	Indra Sugiarto	Indra	2020	69	<button>Edit</button> <button>Delete</button>
1004	TMJ-P	HTML for Beginner	Shew Czan	W3School	2022	100	<button>Edit</button> <button>Delete</button>

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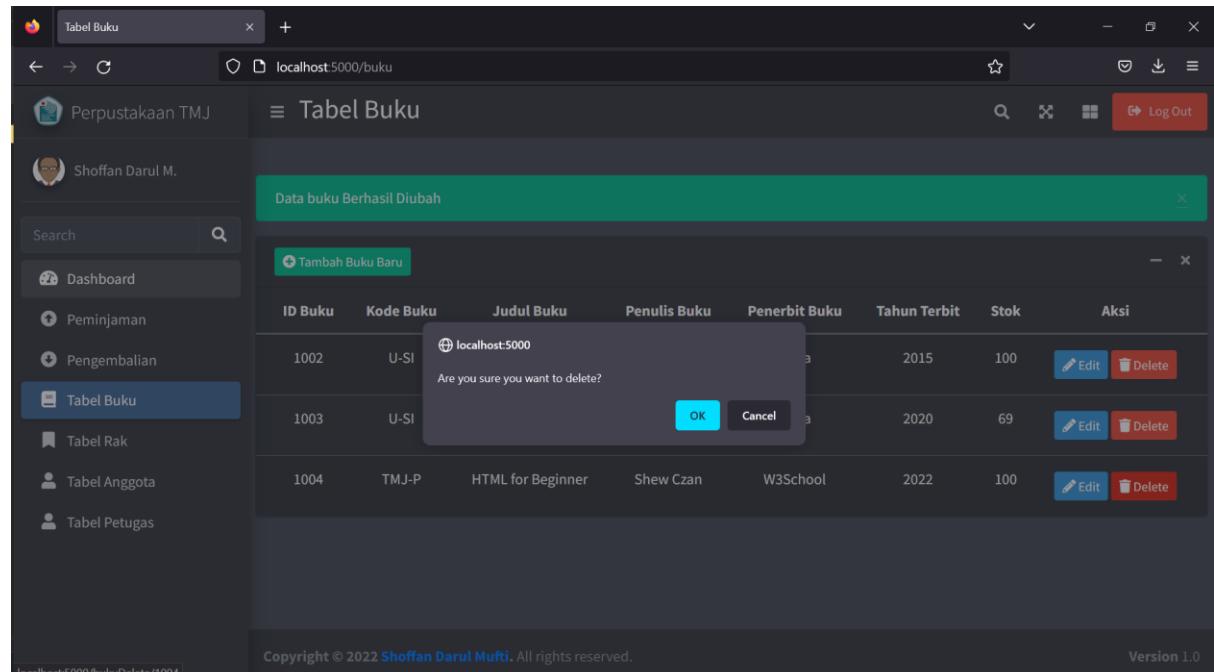
## 16. Membuat Form Delete Buku

Di dalam menu Tabel Buku, ada tombol untuk Delete Buku. Delete Buku berfungsi untuk menghapus data Buku dari tabel.

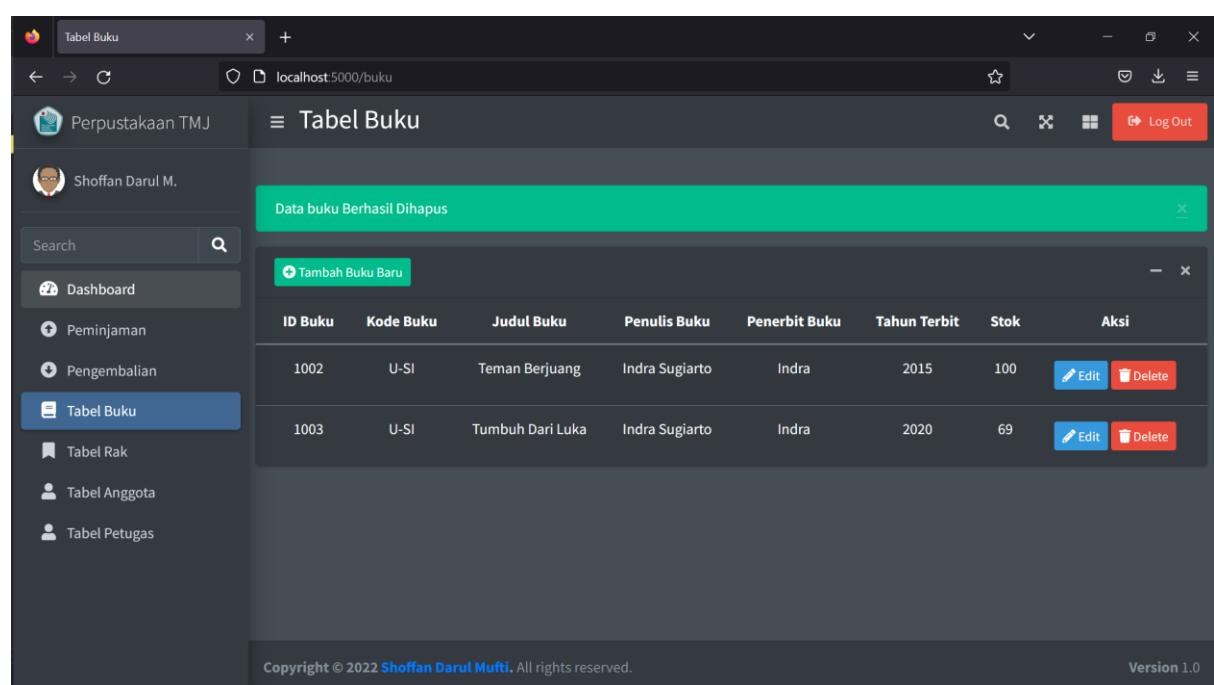
Source Code Python:

```
177     @application.route('/bukuDelete/<int:id>', methods=['GET'])
178     def bukuDelete(id):
179         if request.method == 'GET':
180             postMethod("DELETE FROM `buku` WHERE `buku`.`id_buku` = '"+str(id)+"'", 'Data buku Berhasil Dihapus')
181             return redirect(url_for('buku'))
182         return render_template('buku.html')
```

Hasilnya seperti berikut:



The screenshot shows a web application interface for managing books. On the left, there's a sidebar with navigation links: Dashboard, Peminjaman, Pengembalian, Tabel Buku (which is selected and highlighted in blue), Tabel Rak, Tabel Anggota, and Tabel Petugas. The main content area is titled "Tabel Buku" and displays a table of books with columns: ID Buku, Kode Buku, Judul Buku, Penulis Buku, Penerbit Buku, Tahun Terbit, Stok, and Aksi. The table contains three rows of data. A modal dialog box is overlaid on the page, centered over the second row. The dialog has a title "localhost:5000" and the message "Are you sure you want to delete?". It features two buttons: "OK" (highlighted in blue) and "Cancel". At the bottom of the page, there's a footer with copyright information: "Copyright © 2022 Shoffan Darul Mufti. All rights reserved." and "Version 1.0".

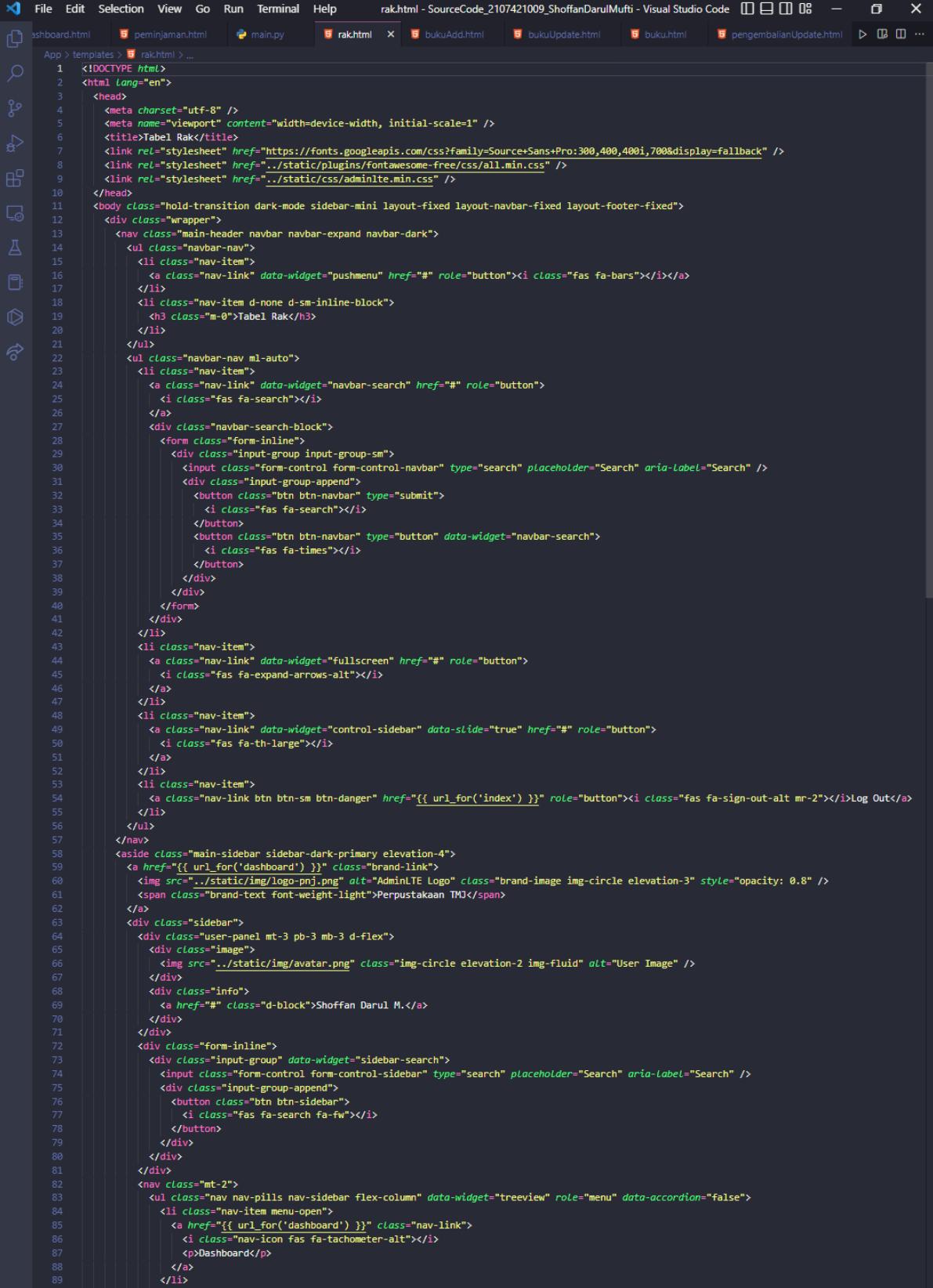


This screenshot shows the same web application after a book has been deleted. The modal dialog from the previous screenshot is no longer present. The table in the main content area now has only two rows of data. The footer at the bottom of the page remains the same as in the previous screenshot.

## 17. Membuat Tabel Rak

Di dalam dashboard, ada menu Tabel Rak. Menu Tabel Rak berisikan tabel daftar Tabel Rak yang ada.

Source Code HTML:



```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <title>Tabel Rak</title>
    <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700&display=fallback" />
    <link rel="stylesheet" href="../../static/plugins/fontawesome-free/css/all.min.css" />
    <link rel="stylesheet" href="../../static/css/adminlte.min.css" />
  </head>
  <body class="hold-transition dark-mode sidebar-mini layout-fixed layout-navbar-fixed layout-footer-fixed">
    <div class="wrapper">
      <nav class="main-header navbar navbar-expand navbar-dark">
        <ul class="navbar-nav">
          <li class="nav-item">
            <a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
          </li>
          <li class="nav-item d-none d-sm-inline-block">
            <h3 class="m-0">Tabel Rak</h3>
          </li>
        </ul>
        <ul class="navbar-nav ml-auto">
          <li class="nav-item">
            <a class="nav-link" data-widget="navbar-search" href="#" role="button">
              <i class="fas fa-search"></i>
            </a>
          </li>
          <div class="navbar-search-block">
            <form class="form-inline">
              <div class="input-group input-group-sm">
                <input class="form-control form-control-navbar" type="search" placeholder="Search" aria-label="Search" />
                <div class="input-group-append">
                  <button class="btn btn-navbar" type="submit">
                    <i class="fas fa-search"></i>
                  </button>
                  <button class="btn btn-navbar" type="button" data-widget="navbar-search">
                    <i class="fas fa-times"></i>
                  </button>
                </div>
              </div>
            </form>
          </div>
        </ul>
        <li class="nav-item">
          <a class="nav-link" data-widget="fullscreen" href="#" role="button">
            <i class="fas fa-expand-arrows-alt"></i>
          </a>
        </li>
        <li class="nav-item">
          <a class="nav-link" data-widget="control-sidebar" data-slide="true" href="#" role="button">
            <i class="fas fa-th-large"></i>
          </a>
        </li>
        <li class="nav-item">
          <a class="nav-link btn btn-sm btn-danger" href="{{ url_for('index') }}" role="button"><i class="fas fa-sign-out-alt mr-2"></i>Log Out</a>
        </li>
      </ul>
    </nav>
    <aside class="main-sidebar sidebar-dark-primary elevation-4">
      <a href="{{ url_for('dashboard') }}" class="brand-link">
        
        <span class="brand-text font-weight-light">Perpustakaan TMJ</span>
      </a>
      <div class="sidebar">
        <div class="user-panel mt-3 pb-3 mb-3 d-flex">
          <div class="image">
            
          </div>
          <div class="info">
            <a href="#" class="d-block">Shoffan Darul M.</a>
          </div>
        </div>
        <div class="form-inline">
          <div class="input-group" data-widget="sidebar-search">
            <input class="form-control form-control-sidebar" type="search" placeholder="Search" aria-label="Search" />
            <div class="input-group-append">
              <button class="btn btn-sidebar">
                <i class="fas fa-search fa-fw"></i>
              </button>
            </div>
          </div>
        </div>
      </div>
      <nav class="mt-2">
        <ul class="nav nav-pills nav-sidebar flex-column" data-widget="treeview" role="menu" data-accordion="false">
          <li class="nav-item menu-open">
            <a href="{{ url_for('dashboard') }}" class="nav-link">
              <i class="nav-icon fas fa-tachometer-alt"></i>
              <p>Dashboard</p>
            </a>
          </li>
        </ul>
      </nav>
    </aside>
  </body>
</html>
```

```
File Edit Selection View Go Run Terminal Help rakhtml - SourceCode_2107421009_ShoffanDarulMufti - Visual Studio Code
ashboard.html  peminjaman.html  main.py  rakhtml  bukuAdd.html  bukuUpdate.html  buku.html  pengembalianUpdate.html

App > templates > rak.html ...
90         <li class="nav-item">
91             <a href="{{ url_for('peminjaman') }}" class="nav-link">
92                 <i class="nav-icon fas fa-arrow-alt-circle-up"></i>
93                 <p>Peminjaman</p>
94             </a>
95         </li>
96         <li class="nav-item">
97             <a href="{{ url_for('pengembalian') }}" class="nav-link">
98                 <i class="nav-icon fas fa-arrow-alt-circle-down"></i>
99                 <p>Pengembalian</p>
100            </a>
101        </li>
102        <li class="nav-item">
103            <a href="{{ url_for('buku') }}" class="nav-link">
104                <i class="nav-icon fas fa-book"></i>
105                <p>Tabel Buku</p>
106            </a>
107        </li>
108        <li class="nav-item">
109            <a href="{{ url_for('rak') }}" class="nav-link active">
110                <i class="nav-icon fas fa-bookmark"></i>
111                <p>Tabel Rak</p>
112            </a>
113        </li>
114        <li class="nav-item">
115            <a href="{{ url_for('anggota') }}" class="nav-link">
116                <i class="nav-icon fas fa-user"></i>
117                <p>Tabel Anggota</p>
118            </a>
119        </li>
120        <li class="nav-item">
121            <a href="{{ url_for('petugas') }}" class="nav-link">
122                <i class="nav-icon fas fa-user"></i>
123                <p>Tabel Petugas</p>
124            </a>
125        </li>
126    </ul>
127  </nav>
128 </div>
129 </aside>
130 <div class="content-wrapper">
131     <section class="content-header">
132         <div class="container-fluid">
133             <div class="row mb-2"></div>
134         </div>
135     </section>
136     <section class="content">
137         <div class="alert alert-success">
138             <a href="#" class="close text-white" data-dismiss="alert" aria-label="close">&times;</a>
139             {% with messages = get_flashed_messages() %}
140             {% if messages %}
141                 {% for message in messages %}
142                     {{ message }}
143                 {% endfor %}
144             {% endif %}
145             {% endwith %}
146         </div>
147         <div class="card">
148             <div class="card-header">
149                 <a class="btn btn-success btn-sm" href="{{ 'rakAdd' }}>
150                     <i class="fas fa-plus-circle"></i>
151                     Tambah Rak Baru
152                 </a>
153             <div class="card-tools">
154                 <button type="button" class="btn btn-tool" data-card-widget="collapse" title="Collapse">
155                     <i class="fas fa-minus"></i>
156                 </button>
157                 <button type="button" class="btn btn-tool" data-card-widget="remove" title="Remove">
158                     <i class="fas fa-times"></i>
159                 </button>
160             </div>
161             <div class="card-body p-0">
162                 <table class="table table-striped projects text-center">
163                     <thead>
164                         <tr>
165                             <th>ID Rak</th>
166                             <th>Nama Rak</th>
167                             <th>Lokasi Rak</th>
168                             <th>ID Buku</th>
169                             <th>Aksi</th>
170                         </tr>
171                     </thead>
172                     <tbody>
173                         {% for item in kalimat %}
174                             <tr>
175                                 <td>
176                                     <p href="{{ item }}>{{ item[0] }}</p>
177                                 </td>
178                                 <td>
179                                     <p href="{{ item }}>{{ item[1] }}</p>
180                                 </td>
181                                 <td>
182                                     <p href="{{ item }}>{{ item[2] }}</p>
183                                 </td>
184                                 <td>
185                                     <p href="{{ item }}>{{ item[3] }}</p>
186                                 </td>
187                                 <td class="project-actions">
188                                     <a class="btn btn-info btn-sm" href="rakUpdate/{{ item[0] }}>
189                                         <i class="fas fa-pencil-alt"></i>
190                                         Edit
191                                     </a>
192                                     <a class="btn btn-danger btn-sm" href="rakDelete/{{ item[0] }}" onclick="return confirm('Are you sure you want to delete?');">
193                                         <i class="fas fa-trash"></i>
194                                         Delete
195                                     </a>
196                                 </td>
197                             </tr>
198                         {% endfor %}
199                     </tbody>
200                 </table>
201             </div>
202         </div>
203     </section>
204 
```

```
File Edit Selection View Go Run Terminal Help rak.html - SourceCode_2107421009_ShoffanDarulMufti - Visual Studio Code
ashboard.html peminjaman.html main.py rak.html bukuAdd.html bukuUpdate.html buku.html pengembalianUpdate.html

App > templates > rak.html > ...
191         </tr>
192     {% endfor %}
193   </tbody>
194 </table>
195 </div>
196 </div>
197 </div>
198 </section>
199 </div>
200 <footer class="main-footer">
201   <strong>Copyright &copy; 2022 <a href="{{ url_for('index') }}>Shoffan Darul Mufti</a></strong>
202   All rights reserved.
203   <div class="float-right d-none d-sm-inline-block"><b>Version</b> 1.0</div>
204 </footer>
205 <aside class="control-sidebar control-sidebar-dark"></aside>
206 </div>
207 <script src="../static/plugins/jquery/jquery.min.js"></script>
208 <script src="../static/plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
209 <script src="../static/js/adminlte.min.js"></script>
210 </body>
211 </html>
212
```

Source Code Python:

```
184 @application.route('/rak')
185 def rak():
186     output_json = getMethod("SELECT * from rak")
187     return render_template('rak.html',kalimat=output_json)
188
189
```

Hasilnya seperti berikut:

localhost:5000/rak

## Tabel Rak

ID Rak	Nama Rak	Lokasi Rak	ID Buku	Aksi
1002	Rak B - Self Improvement	Lantai 1	1002	<button>Edit</button> <button>Delete</button>
1003	Rak C - Self Improvement	Lantai 1	1003	<button>Edit</button> <button>Delete</button>

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Version 1.0

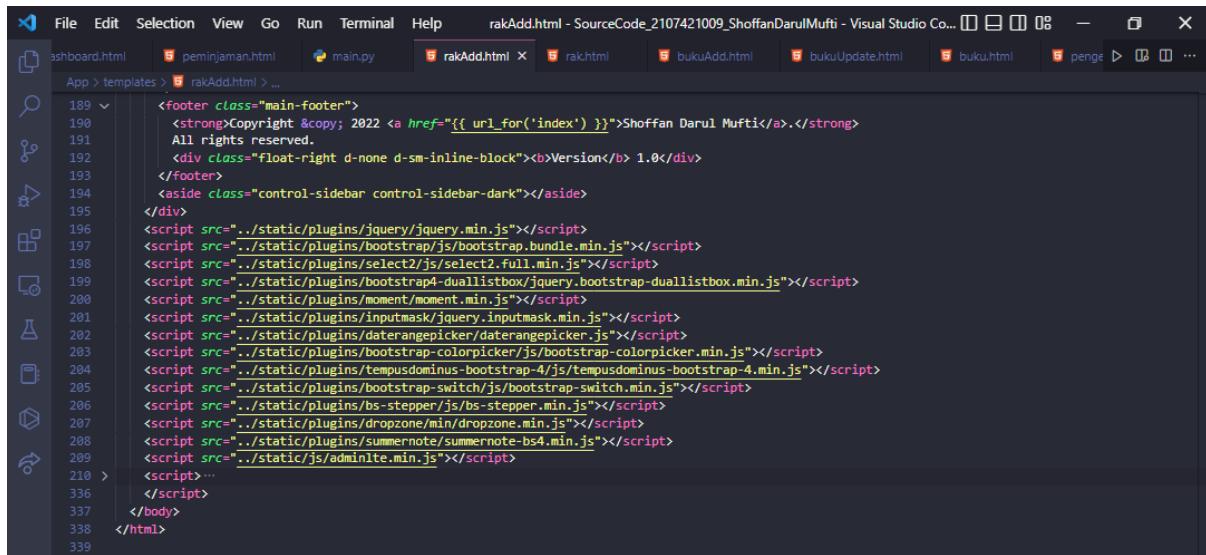
## 18. Membuat Form Tambah Rak

Di dalam menu Rak, ada tombol untuk Tambah Rak. Tambah Rak berfungsi untuk menambahkan Rak baru ke tabel.

Source Code HTML:

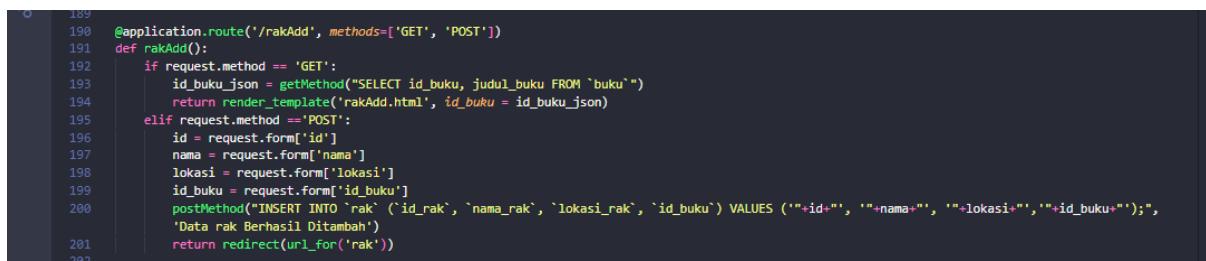
```
File Edit Selection View Go Run Terminal Help rakAdd.html - SourceCode_2107421009_ShoffanDarulMufti - Visual Studio Co... □ □ □ □ □ ... ×
ashboard.html peminjaman.html main.py rakAdd.html rakhtml bukuAdd.html bukuUpdate.html buku.html pengeluaran.html ...
App > templates > rakAdd.html ...
1  <!DOCTYPE html>
2  <html lang="en">
3      <head>
4          <meta charset="utf-8" />
5          <meta name="viewport" content="width=device-width, initial-scale=1" />
6          <title>Tambah Rak Baru</title>
7          <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,700&display=fallback" />
8          <link rel="stylesheet" href=".static/plugins/fontawesome-free/css/all.min.css" />
9          <link rel="stylesheet" href=".static/plugins/daterangepicker/daterangepicker.css" />
10         <link rel="stylesheet" href=".static/plugins/checkbox-icheck-bootstrap/icheck-bootstrap.min.css" />
11         <link rel="stylesheet" href=".static/plugins/bootstrap-colorpicker/css/bootstrap-colorpicker.min.css" />
12         <link rel="stylesheet" href=".static/plugins/tempusdominus-bootstrap-4/css/tempusdominus-bootstrap-4.min.css" />
13         <link rel="stylesheet" href=".static/plugins/select2/css/select2.min.css" />
14         <link rel="stylesheet" href=".static/plugins/select2-bootstrap4-theme/select2-bootstrap4.min.css" />
15         <link rel="stylesheet" href=".static/plugins/bootstrap4-duallistbox/bootstrap4-duallistbox.min.css" />
16         <link rel="stylesheet" href=".static/plugins/bs-stepper/css/bs-stepper.min.css" />
17         <link rel="stylesheet" href=".static/plugins/dropzone/min/dropzone.min.css" />
18         <link rel="stylesheet" href=".static/plugins/summernote/summernote-bs4.min.css" />
19         <link rel="stylesheet" href=".static/css/adminlte.min.css" />
20     </head>
21     <body class="hold-transition dark-mode sidebar-mini layout-fixed layout-navbar-fixed layout-footer-fixed">
22         <div class="wrapper">
23             <nav class="main-header navbar navbar-expand navbar-dark">
24                 <ul class="navbar-nav">
25                     <li class="nav-item">
26                         <a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
27                     </li>
28                     <li class="nav-item d-none d-sm-inline-block"></li>
29                 </ul>
30                 <ul class="navbar-nav ml-auto">
31                     <li class="nav-item">
32                         <a class="nav-link" data-widget="navbar-search" href="#" role="button">
33                             <i class="fas fa-search"></i>
34                         </a>
35                         <div class="navbar-search-block">
36                             <form class="form-inline">
37                                 <div class="input-group input-group-sm">
38                                     <input class="form-control form-control-navbar" type="search" placeholder="Search" aria-label="Search" />
39                                     <div class="input-group-append">
40                                         <button class="btn btn-navbar" type="submit">
41                                             <i class="fas fa-search"></i>
42                                         </button>
43                                         <button class="btn btn-navbar" type="button" data-widget="navbar-search">
44                                             <i class="fas fa-times"></i>
45                                         </button>
46                                     </div>
47                                 </div>
48                             </form>
49                         </div>
50                     </li>
51                     <li class="nav-item">
52                         <a class="nav-link" data-widget="fullscreen" href="#" role="button">
53                             <i class="fas fa-expand-arrows-alt"></i>
54                         </a>
55                     </li>
56                     <li class="nav-item">
57                         <a class="nav-link" data-widget="control-sidebar" data-slide="true" href="#" role="button">
58                             <i class="fas fa-th-large"></i>
59                         </a>
60                     </li>
61                     <li class="nav-item">
62                         <a class="nav-link btn btn-sm btn-danger" href="{{ url_for('index') }}" role="button"><i class="fas fa-sign-out-alt mr-2"></i>Log Out</a>
63                     </li>
64                 </ul>
65             </nav>
66             <aside class="main-sidebar sidebar-dark-primary elevation-4">
67                 <a href="{{ url_for('dashboard') }}" class="brand-link">
68                     
69                     <span class="brand-text font-weight-light">Perpustakaan TMJ</span>
70                 </a>
71                 <div class="sidebar">
72                     <div class="user-panel mt-3 pb-3 mb-3 d-flex">
73                         <div class="image">
74                             
75                         </div>
76                         <div class="info">
77                             <a href="#" class="d-block">Shoffan Darul M.</a>
78                         </div>
79                     </div>
80                     <div class="form-inline">
81                         <div class="input-group" data-widget="sidebar-search">
82                             <input class="form-control form-control-sidebar" type="search" placeholder="Search" aria-label="Search" />
83                             <div class="input-group-append">
84                                 <button class="btn btn-sidebar">
85                                     <i class="fas fa-search fa-fw"></i>
86                                 </button>
87                             </div>
88                         </div>
89                     </div>
90                 </div>
91             </aside>
92         <div class="content-wrapper">
93             <div class="content">
94                 <div class="container">
95                     <div class="row">
96                         <div class="col-12">
97                             <div class="card">
98                                 <div class="card-body">
99                                     <h3>Tambah Rak Baru</h3>
100                                     <hr/>
```

```
File Edit Selection View Go Run Terminal Help rakAdd.html - SourceCode_2107421009_ShoffanDarulMufti - Visual Studio Co... □ □ □ 0% - □ X
ashboard.html peminjaman.html main.py rakAdd.html rakhtml bukuAdd.html bukuUpdate.html buku.html peng... ...
App > templates > rakAdd.html ...
90 <nav class="mt-2">
91     <ul class="nav nav-pills nav-sidebar flex-column" data-widget="treeview" role="menu" data-accordion="false">
92         <li class="nav-item menu-open">
93             <a href="{% url_for('dashboard') }" class="nav-link">
94                 <i class="nav-icon fas fa-tachometer-alt"></i>
95                 <p>Dashboard</p>
96             </a>
97         </li>
98         <li class="nav-item">
99             <a href="{% url_for('peminjaman') }" class="nav-link">
100                 <i class="nav-icon fas fa-arrow-alt-circle-up"></i>
101                 <p>Peminjaman</p>
102             </a>
103         </li>
104         <li class="nav-item">
105             <a href="{% url_for('pengembalian') }" class="nav-link">
106                 <i class="nav-icon fas fa-arrow-alt-circle-down"></i>
107                 <p>Pengembalian</p>
108             </a>
109         </li>
110         <li class="nav-item">
111             <a href="{% url_for('buku') }" class="nav-link">
112                 <i class="nav-icon fas fa-book"></i>
113                 <p>Tabel Buku</p>
114             </a>
115         </li>
116         <li class="nav-item">
117             <a href="{% url_for('rak') }" class="nav-link active">
118                 <i class="nav-icon fas fa-bookmark"></i>
119                 <p>Tabel Rak</p>
120             </a>
121         </li>
122         <li class="nav-item">
123             <a href="{% url_for('anggota') }" class="nav-link">
124                 <i class="nav-icon fas fa-user"></i>
125                 <p>Tabel Anggota</p>
126             </a>
127         </li>
128         <li class="nav-item">
129             <a href="{% url_for('petugas') }" class="nav-link">
130                 <i class="nav-icon fas fa-user"></i>
131                 <p>Tabel Petugas</p>
132             </a>
133         </li>
134     </ul>
135     </nav>
136 </div>
137 </aside>
138 <div class="content-wrapper">
139     <section class="content-header">
140         <div class="container-fluid">
141             <div class="row mb-2"></div>
142         </div>
143     </section>
144     <section class="content">
145         <form method="POST">
146             <div class="card card-primary">
147                 <div class="card-header">
148                     <h3 class="card-title">Form Tambah Rak Baru</h3>
149                     <div class="card-tools">
150                         <button type="button" class="btn btn-tool" data-card-widget="collapse" title="Collapse">
151                             <i class="fas fa-minus"></i>
152                         </button>
153                     </div>
154                 </div>
155                 <div class="card-body">
156                     <div class="row">
157                         <div class="form-group col-md-6">
158                             <label>ID Rak</label>
159                             <input type="text" name="id" class="form-control" />
160                         </div>
161                         <div class="form-group col-md-6">
162                             <label>Nama Rak</label>
163                             <input type="text" name="nama" class="form-control" />
164                         </div>
165                         <div class="form-group col-md-6">
166                             <label>Lokasi Rak</label>
167                             <input type="text" name="lokasi" class="form-control" />
168                         </div>
169                         <div class="form-group col-md-6">
170                             <label>ID Buku</label>
171                             <select name="id_buku" class="form-control">
172                                 {% for item in id_buku %}
173                                     <option value="{{ item[0] }}"-{{ item[1] }}>{{ item[0] }} - {{ item[1] }}</option>
174                                 {% endfor %}
175                             </select>
176                         </div>
177                     </div>
178                 </div>
179             </div>
180             <div class="row">
181                 <div class="col-12">
182                     <a href="{% url_for('rak') }" class="btn btn-secondary">Cancel</a>
183                     <button type="submit" class="btn btn-success float-right toastrDefaultSuccess">Submit</button>
184                 </div>
185             </div>
186         </form>
187     </section>
188 </div>
```



```
<strong>Copyright &copy; 2022 <a href="{{ url_for('index') }}>Shoffan Darul Mufti</a></strong>
All rights reserved.
</div>
</div>
<aside class="control-sidebar control-sidebar-dark"></aside>
</div>
<script src="../static/plugins/jquery/jquery.min.js"></script>
<script src="../static/plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
<script src="../static/plugins/select2/js/select2.full.min.js"></script>
<script src="../static/plugins/bootstrap4-duallistbox/jquery.bootstrap-duallistbox.min.js"></script>
<script src="../static/moment/moment.min.js"></script>
<script src="../static/plugins/inputmask/jquery.inputmask.min.js"></script>
<script src="../static/plugins/daterangepicker/daterangepicker.js"></script>
<script src="../static/plugins/bootstrap-colorpicker/js/bootstrap-colorpicker.min.js"></script>
<script src="../static/plugins/tempusdominus-bootstrap-4/js/tempusdominus-bootstrap-4.min.js"></script>
<script src="../static/plugins/bootstrap-switch/js/bootstrap-switch.min.js"></script>
<script src="../static/plugins/bs-stepper/js/bs-stepper.min.js"></script>
<script src="../static/plugins/dropzone/min/dropzone.min.js"></script>
<script src="../static/plugins/summernote/summernote-bs4.min.js"></script>
<script src="../static/js/adminlte.min.js"></script>
<script> ...
</script>
</body>
</html>
```

Source Code Python:



```
@application.route('/rakAdd', methods=['GET', 'POST'])
def rakAdd():
    if request.method == 'GET':
        id_buku_json = getMethod("SELECT id_buku, judul_buku FROM `buku`")
        return render_template('rakAdd.html', id_buku = id_buku_json)
    elif request.method == 'POST':
        id = request.form['id']
        nama = request.form['nama']
        lokasi = request.form['lokasi']
        id_buku = request.form['id_buku']
        postMethod("INSERT INTO `rak` (`id_rak`, `nama_rak`, `lokasi_rak`, `id_buku`) VALUES ('"+id+"', '"+nama+"', '"+lokasi+"','"+id_buku+"');");
        'Data rak Berhasil Ditambah'
        return redirect(url_for('rak'))
```

Hasilnya seperti berikut:

The screenshot shows a Firefox browser window with the URL `localhost:5000/rakAdd`. The page title is "Perpustakaan TMJ". On the left, there is a sidebar with icons for Dashboard, Peminjaman, Pengembalian, Tabel Buku, and Tabel Rak (which is selected). The main content area has a blue header "Form Tambah Rak Baru". It contains two input fields: "ID Rak" (1004) and "Nama Rak" (Rak A - Programming). Below these are two dropdown menus: "Lokasi Rak" (Lantai 2) and "ID Buku" (1004 - HTML for Beginner). At the bottom are "Cancel" and "Submit" buttons. The footer includes copyright information and a "Version 1.0" link.

The screenshot shows a Firefox browser window with the URL `localhost:5000/rak`. The page title is "Perpustakaan TMJ". The sidebar is identical to the previous screenshot. The main content area has a green header "Data rak Berhasil Ditambah". Below it is a table titled "Tabel Rak" with the following data:

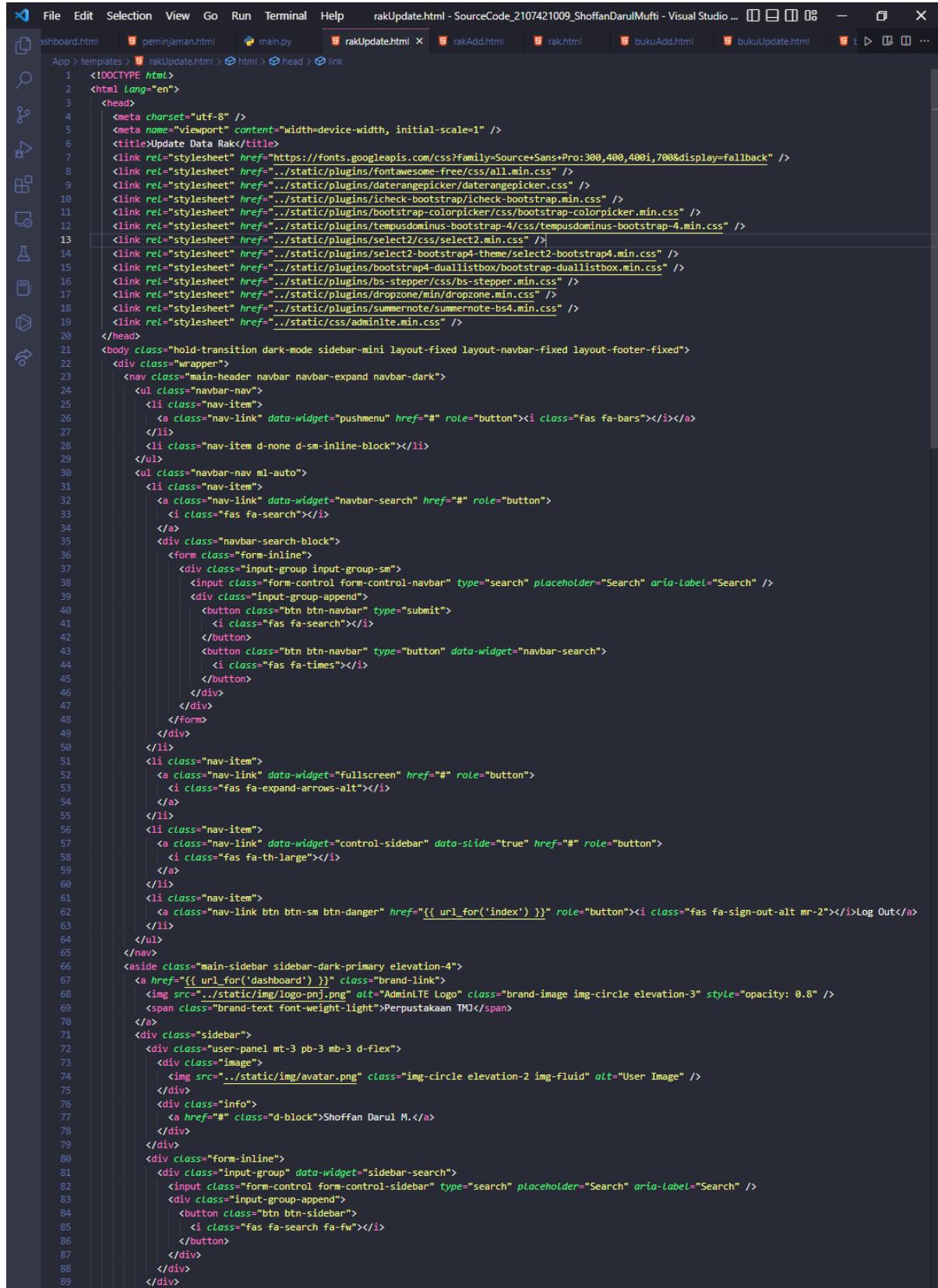
ID Rak	Nama Rak	Lokasi Rak	ID Buku	Aksi
1002	Rak B - Self Improvement	Lantai 1	1002	<button>Edit</button> <button>Delete</button>
1003	Rak C - Self Improvement	Lantai 1	1003	<button>Edit</button> <button>Delete</button>
1004	Rak A - Programming	Lantai 2	1004	<button>Edit</button> <button>Delete</button>

The footer includes copyright information and a "Version 1.0" link.

## 19. Membuat Form Update Rak

Di dalam menu Rak, ada tombol untuk Update Rak. Update Rak berfungsi untuk mengubah data Rak dari tabel.

Source Code HTML:

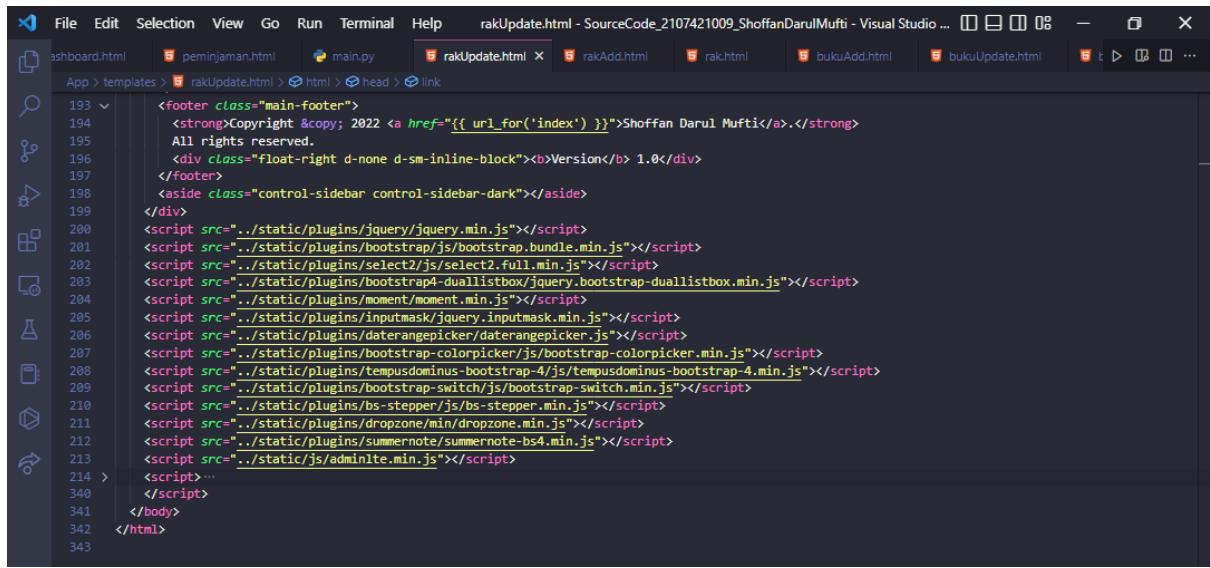


The screenshot shows the Visual Studio Code interface with the file 'rakUpdate.html' open. The code is an HTML template for a sidebar navigation menu. It includes a header with meta tags, a title 'Update Data Rak', and a body containing a navigation bar ('navbar-dark') and a sidebar ('main-sidebar'). The sidebar features links for dashboard, log out, and a search function. The main content area is currently empty, indicated by a placeholder 'App > templates > rakUpdate.html > html > head > link'.

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <title>Update Data Rak</title>
    <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700&display=fallback" />
    <link rel="stylesheet" href="../../static/plugins/fontawesome-free/css/all.min.css" />
    <link rel="stylesheet" href="../../static/plugins/daterangepicker/daterangepicker.css" />
    <link rel="stylesheet" href="../../static/plugins/bootstrap/icheck-bootstrap/icheck-bootstrap.min.css" />
    <link rel="stylesheet" href="../../static/plugins/bootstrap-colorpicker/css/bootstrap-colorpicker.min.css" />
    <link rel="stylesheet" href="../../static/plugins/tempusdominus-bootstrap-4/css/tempusdominus-bootstrap-4.min.css" />
    <link rel="stylesheet" href="../../static/plugins/select2/css/select2.min.css" />
    <link rel="stylesheet" href="../../static/plugins/select2-bootstrap4-theme/select2-bootstrap4.min.css" />
    <link rel="stylesheet" href="../../static/plugins/bootstrap-duallistbox/bootstrap-duallistbox.min.css" />
    <link rel="stylesheet" href="../../static/plugins/bs-stepper/css/bs-stepper.min.css" />
    <link rel="stylesheet" href="../../static/plugins/dropzone/min/dropzone.min.css" />
    <link rel="stylesheet" href="../../static/plugins/summernote/summernote-bs4.min.css" />
    <link rel="stylesheet" href="../../static/css/adminlte.min.css" />
  </head>
  <body class="hold-transition dark-mode sidebar-mini layout-fixed layout-navbar-fixed layout-footer-fixed">
    <div class="wrapper">
      <nav class="main-header navbar navbar-expand navbar-dark">
        <ul class="navbar-nav">
          <li class="nav-item">
            <a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
          </li>
          <li class="nav-item d-none d-sm-inline-block"></li>
        </ul>
        <ul class="navbar-nav ml-auto">
          <li class="nav-item">
            <a class="nav-link" data-widget="navbar-search" href="#" role="button">
              <i class="fas fa-search"></i>
            </a>
            <div class="navbar-search-block">
              <form class="form-inline">
                <div class="input-group input-group-sm">
                  <input class="form-control form-control-navbar" type="search" placeholder="Search" aria-label="Search" />
                  <div class="input-group-append">
                    <button class="btn btn-navbar" type="submit">
                      <i class="fas fa-search"></i>
                    </button>
                    <button class="btn btn-navbar" type="button" data-widget="navbar-search">
                      <i class="fas fa-times"></i>
                    </button>
                  </div>
                </div>
              </form>
            </div>
          </li>
          <li class="nav-item">
            <a class="nav-link" data-widget="fullscreen" href="#" role="button">
              <i class="fas fa-expand-arrows-alt"></i>
            </a>
          </li>
          <li class="nav-item">
            <a class="nav-link" data-widget="control-sidebar" data-slide="true" href="#" role="button">
              <i class="fas fa-th-large"></i>
            </a>
          </li>
          <li class="nav-item">
            <a class="nav-link btn btn-sm btn-danger" href="{{ url_for('index') }}" role="button"><i class="fas fa-sign-out-alt mr-2"></i>Log Out</a>
          </li>
        </ul>
      </nav>
      <aside class="main-sidebar sidebar-dark-primary elevation-4">
        <a href="{{ url_for('dashboard') }}" class="brand-link">
          
          <span class="brand-text font-weight-light">Perpustakaan TMJ</span>
        </a>
        <div class="sidebar">
          <div class="user-panel mt-3 pb-3 mb-3 d-flex">
            <div class="image">
              
            </div>
            <div class="info">
              <a href="#" class="d-block">Shoffan Darul M.</a>
            </div>
          </div>
          <div class="form-inline">
            <div class="input-group" data-widget="sidebar-search">
              <input class="form-control form-control-sidebar" type="search" placeholder="Search" aria-label="Search" />
              <div class="input-group-append">
                <button class="btn btn-sidebar">
                  <i class="fas fa-search fa-fw"></i>
                </button>
              </div>
            </div>
          </div>
        </div>
      </aside>
    </div>
  </body>

```

```
File Edit Selection View Go Run Terminal Help rakUpdate.html - SourceCode_2107421009_ShoffanDarulMufti - Visual Studio ...
ashboard.html  peminjaman.html  main.py  rakUpdate.html  rakAdd.html  rak.html  bukuAdd.html  bukuUpdate.html  t  D  B  X
App > templates > rakUpdate.html > html > head > link
 90     <nav class="mt-2">
 91         <ul class="nav nav-pills nav-sidebar flex-column" data-widget="treeview" role="menu" data-accordion="false">
 92             <li class="nav-item menu-open">
 93                 <a href="{{ url_for('dashboard') }}" class="nav-link">
 94                     <i class="nav-icon fas fa-tachometer-alt"></i>
 95                     <p>Dashboard</p>
 96                 </a>
 97             </li>
 98             <li class="nav-item">
 99                 <a href="{{ url_for('peminjaman') }}" class="nav-link">
100                     <i class="nav-icon fas fa-arrow-alt-circle-up"></i>
101                     <p>Peminjaman</p>
102                 </a>
103             </li>
104             <li class="nav-item">
105                 <a href="{{ url_for('pengembalian') }}" class="nav-link">
106                     <i class="nav-icon fas fa-arrow-alt-circle-down"></i>
107                     <p>Pengembalian</p>
108                 </a>
109             </li>
110             <li class="nav-item">
111                 <a href="{{ url_for('buku') }}" class="nav-link">
112                     <i class="nav-icon fas fa-book"></i>
113                     <p>Tabel Buku</p>
114                 </a>
115             </li>
116             <li class="nav-item">
117                 <a href="{{ url_for('rak') }}" class="nav-link active">
118                     <i class="nav-icon fas fa-bookmark"></i>
119                     <p>Tabel Rak</p>
120                 </a>
121             </li>
122             <li class="nav-item">
123                 <a href="{{ url_for('anggota') }}" class="nav-link">
124                     <i class="nav-icon fas fa-user"></i>
125                     <p>Tabel Anggota</p>
126                 </a>
127             </li>
128             <li class="nav-item">
129                 <a href="{{ url_for('petugas') }}" class="nav-link">
130                     <i class="nav-icon fas fa-user"></i>
131                     <p>Tabel Petugas</p>
132                 </a>
133             </li>
134         </ul>
135     </nav>
136 </div>
137 </aside>
138 <div class="content-wrapper">
139     <section class="content-header">
140         <div class="container-fluid">
141             <div class="row mb-2"></div>
142         </div>
143     </section>
144     <section class="content">
145         {% block content %}<br>
146         <form method="POST">
147             <div class="card card-primary">
148                 <div class="card-header">
149                     <h3 class="card-title">Form Update Rak</h3>
150                     <div class="card-tools">
151                         <button type="button" class="btn btn-tool" data-card-widget="collapse" title="Collapse">
152                             <i class="fas fa-minus"></i>
153                         </button>
154                     </div>
155             </div>
156             <div class="card-body">
157                 <div class="row">
158                     {% for item in data_lama %}
159                     <div class="form-group col-md-6">
160                         <label>ID Rak</label>
161                         <input type="text" name="id" class="form-control" value="{{ item[0] }}"/>
162                     </div>
163                     <div class="form-group col-md-6">
164                         <label>Nama Rak</label>
165                         <input type="text" name="nama" class="form-control" value="{{ item[1] }}"/>
166                     </div>
167                     <div class="form-group col-md-6">
168                         <label>Lokasi Rak</label>
169                         <input type="text" name="lokasi" class="form-control" value="{{ item[2] }}"/>
170                     </div>
171                     <div class="form-group col-md-6">
172                         <label>ID Buku</label>
173                         <select name="id_buku" class="form-control">
174                             {% for item in id_buku %}
175                                 <option value="{{ item[0] }}>{{ item[0] }} - {{ item[1] }}</option>
176                             {% endfor %}
177                         </select>
178                     </div>
179                     {% endfor %}
180                 </div>
181             </div>
182             <div class="row">
183                 <div class="col-12">
184                     <a href="{{ url_for('rak') }}" class="btn btn-secondary">Cancel</a>
185                     <button type="submit" class="btn btn-success float-right toastrDefaultSuccess">Submit</button>
186                 </div>
187             </div>
188         </form>
189     {% endblock %}<br>
190     </section>
191 </div>
```



```
<footer class="main-footer">
    <strong>Copyright &copy; 2022 <a href="{{ url_for('index') }}>Shoffan Darul Mufti</a></strong>
    All rights reserved.
</footer>
<aside class="control-sidebar control-sidebar-dark"></aside>
</div>
<script src="../static/plugins/jquery/jquery.min.js"></script>
<script src="../static/plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
<script src="../static/plugins/select2/js/select2.full.min.js"></script>
<script src="../static/plugins/bootstrap-duallistbox/jquery.bootstrap-duallistbox.min.js"></script>
<script src="../static/plugins/moment/moment.min.js"></script>
<script src="../static/plugins/inputmask/jquery.inputmask.min.js"></script>
<script src="../static/plugins/daterangepicker/daterangepicker.js"></script>
<script src="../static/plugins/bootstrap-colorpicker/js/bootstrap-colorpicker.min.js"></script>
<script src="../static/plugins/tempusdominus-bootstrap-4/js/tempusdominus-bootstrap-4.min.js"></script>
<script src="../static/plugins/bootstrap-switch/js/bootstrap-switch.min.js"></script>
<script src="../static/plugins/bs-stepper/js/bs-stepper.min.js"></script>
<script src="../static/plugins/dropzone/min/dropzone.min.js"></script>
<script src="../static/plugins/summernote/summernote-bs4.min.js"></script>
<script src="../static/js/adminlte.min.js"></script>
<script>...
</script>
</body>
</html>
```

## Source Code Python:

```
202     @application.route('/rakUpdate<int:id>', methods=['GET', 'POST'])
203     def rakUpdate(id):
204         if request.method == 'GET':
205             id_buku_json = getMethod("SELECT id_buku, judul_buku FROM `buku`")
206             data_lama = getMethod("SELECT * from rak WHERE id_rak='"+str(id)+"';")
207             return render_template('rakUpdate.html', id_buku = id_buku_json, data_lama = data_lama)
208         elif request.method == 'POST':
209             id = request.form['id']
210             nama = request.form['nama']
211             lokasi = request.form['lokasi']
212             id_buku = request.form['id_buku']
213             postMethod("UPDATE `rak` SET `id_rak` = '"+id+"', `nama_rak` = '"+nama+"', `lokasi_rak` = '"+lokasi+"', `id_buku` = '"+id_buku+"' WHERE `rak`."
214             `id_rak` = "+str(id)+";", "Data rak Berhasil Diubah")
215             return redirect(url_for('rak'))
```

Hasilnya seperti berikut:

The screenshot shows a Firefox browser window with the URL `localhost:5000/rakUpdate/1003`. The page title is "Update Data Rak". On the left, there is a sidebar with a logo, the user name "Shoffan Darul M.", and a search bar. Below the search bar is a navigation menu with items: Dashboard, Peminjaman, Pengembalian, Tabel Buku, Tabel Rak (which is highlighted in blue), Tabel Anggota, and Tabel Petugas. The main content area has a title "Form Update Rak". It contains two rows of input fields. The first row has "ID Rak" (1003) and "Nama Rak" (Rak B - Programming). The second row has "Lokasi Rak" (Lantai 2) and "ID Buku" (1004 - HTML for Beginner). At the bottom right is a green "Submit" button. At the bottom of the page, there is a copyright notice "Copyright © 2022 Shoffan Darul Mufti. All rights reserved." and a "Version 1.0" link.

The screenshot shows a Firefox browser window with the URL `localhost:5000/rak`. The page title is "Tabel Rak". The sidebar is identical to the previous screenshot. The main content area shows a table titled "Data rak Berhasil Diubah". The table has columns: ID Rak, Nama Rak, Lokasi Rak, ID Buku, and Aksi. There are three rows of data:

ID Rak	Nama Rak	Lokasi Rak	ID Buku	Aksi
1002	Rak B - Self Improvement	Lantai 1	1002	<button>Edit</button> <button>Delete</button>
1003	Rak B - Programming	Lantai 2	1004	<button>Edit</button> <button>Delete</button>
1004	Rak A - Programming	Lantai 2	1004	<button>Edit</button> <button>Delete</button>

At the bottom of the page, there is a copyright notice "Copyright © 2022 Shoffan Darul Mufti. All rights reserved." and a "Version 1.0" link.

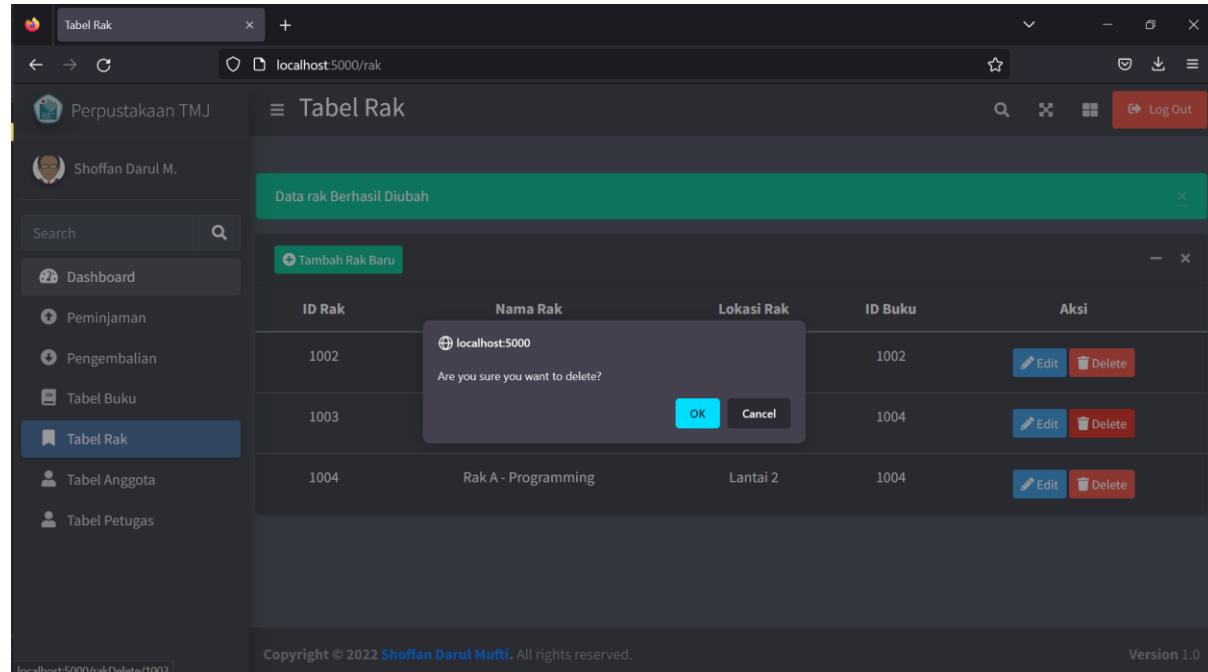
## 20. Membuat Form Delete Rak

Di dalam menu Rak, ada tombol untuk Delete Rak. Delete Rak berfungsi untuk menghapus data Rak dari tabel.

Source Code Python:

```
216
217     @application.route('/rakDelete<int:id>', methods=['GET'])
218     def rakDelete(id):
219         if request.method == 'GET':
220             postMethod("DELETE FROM `rak` WHERE `rak`.`id_rak` = '"+str(id)+"';", "Data rak Berhasil Dihapus")
221             return redirect(url_for('rak'))
222     return render_template('rak.html')
```

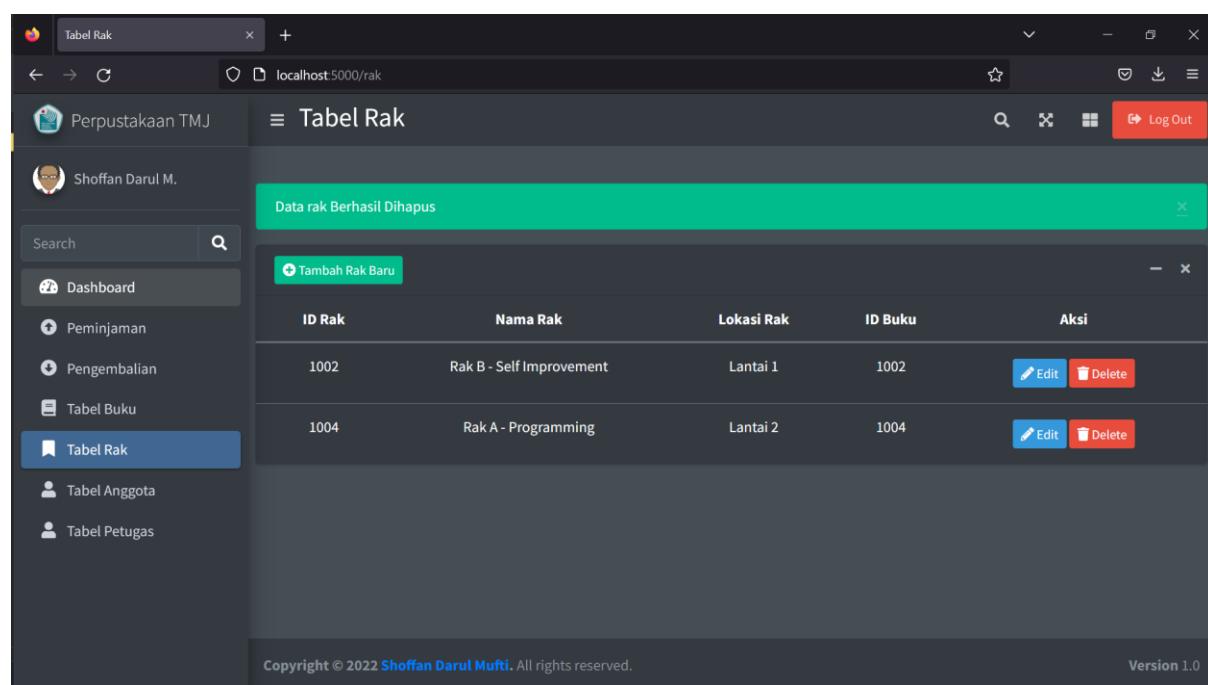
Hasilnya seperti berikut:



The screenshot shows a dark-themed web application interface. On the left is a sidebar with navigation links: Dashboard, Peminjaman, Pengembalian, Tabel Buku, Tabel Rak (which is selected and highlighted in blue), Tabel Anggota, and Tabel Petugas. The main content area has a title 'Tabel Rak' and a sub-section title 'Data rak Berhasil Diubah'. A modal window is open over the table, asking 'Are you sure you want to delete?'. The table lists three rows of data:

ID Rak	Nama Rak	Lokasi Rak	ID Buku	Aksi
1002	Rak A - Programming	Lantai 2	1002	<button>Edit</button> <button>Delete</button>
1003			1004	<button>Edit</button> <button>Delete</button>
1004	Rak A - Programming	Lantai 2	1004	<button>Edit</button> <button>Delete</button>

At the bottom of the page, there is a footer with copyright information: 'Copyright © 2022 Shoffan Darul Mufti. All rights reserved.' and 'Version 1.0'.



This screenshot shows the same application interface after the deletion of the rack with ID 1003. The modal confirmation has closed, and the table now displays only two rows of data:

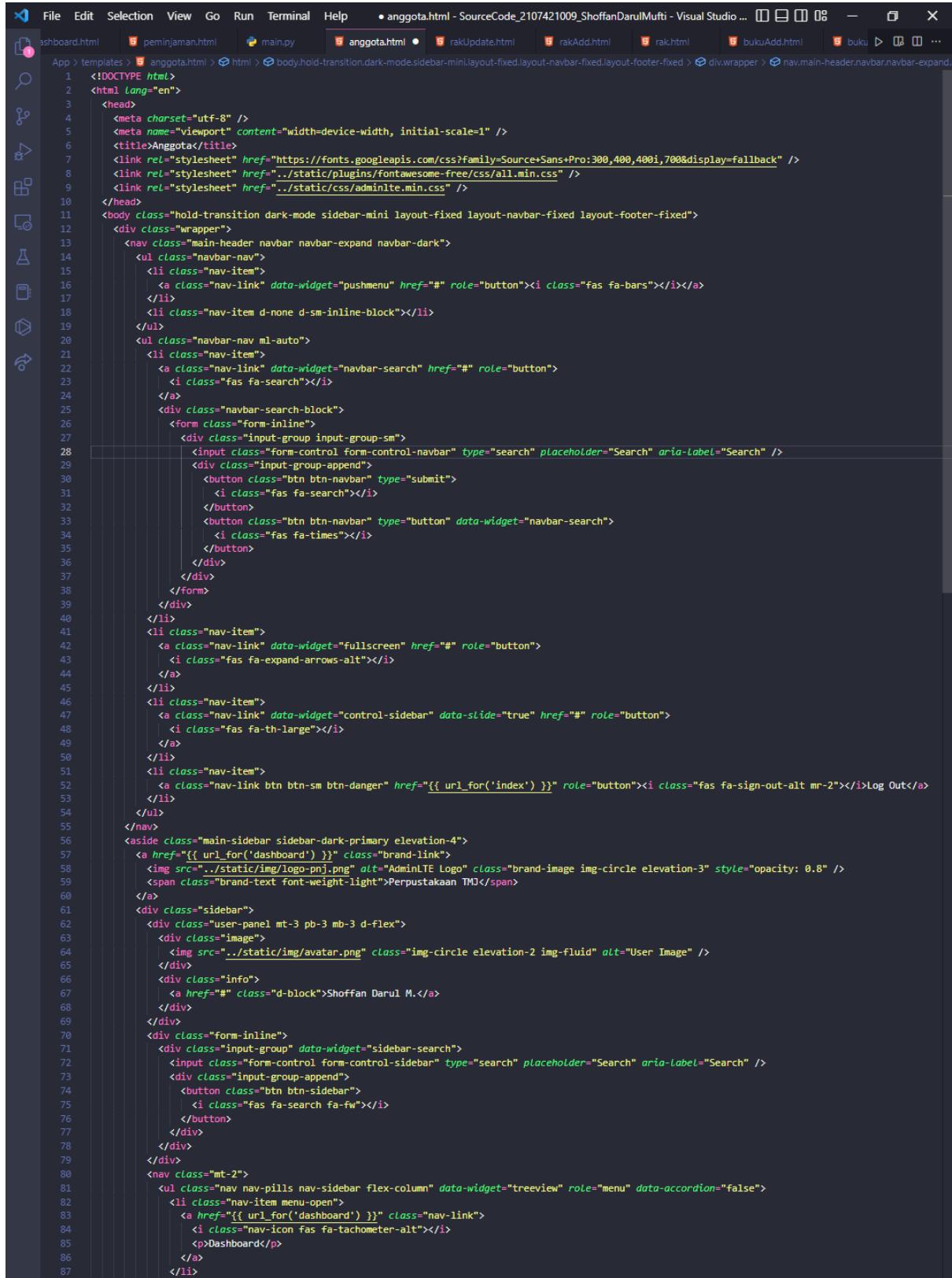
ID Rak	Nama Rak	Lokasi Rak	ID Buku	Aksi
1002	Rak B - Self Improvement	Lantai 1	1002	<button>Edit</button> <button>Delete</button>
1004	Rak A - Programming	Lantai 2	1004	<button>Edit</button> <button>Delete</button>

The footer at the bottom of the page remains the same: 'Copyright © 2022 Shoffan Darul Mufti. All rights reserved.' and 'Version 1.0'.

## 21. Membuat Tabel Anggota

Di dalam dashboard, ada menu Tabel Anggota. Menu Tabel Anggota berisikan tabel daftar Tabel Anggota yang ada.

Source Code HTML:



The screenshot shows the Visual Studio Code interface with the file 'anggota.html' open. The code is a template for a sidebar-based dashboard. It includes a main header with a search bar, a sidebar with user information and a logo, and a sidebar navigation menu. The menu items include 'Dashboard', 'Peminjaman', 'Main.py', 'anggota.html' (the current file), 'rakUpdate.html', 'rakAdd.html', 'rak.html', 'bukuAdd.html', and 'buku'. The code uses Bootstrap classes like 'nav-pills', 'nav-sidebars', and 'flex-column' for layout, and icons from the Font Awesome library.

```
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="utf-8" />
        <meta name="viewport" content="width=device-width, initial-scale=1" />
        <title>Anggota</title>
        <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,700&display=fallback" />
        <link rel="stylesheet" href="../../static/plugins/fontawesome-free/css/all.min.css" />
        <link rel="stylesheet" href="../../static/css/adminlte.min.css" />
    </head>
    <body class="hold-transition dark-mode sidebar-mini layout-fixed layout-navbar-fixed layout-footer-fixed">
        <div class="wrapper">
            <nav class="main-header navbar navbar-expand navbar-dark">
                <ul class="navbar-nav">
                    <li class="nav-item">
                        <a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
                    </li>
                    <li class="nav-item d-none d-sm-inline-block"></li>
                </ul>
                <ul class="navbar-nav ml-auto">
                    <li class="nav-item">
                        <a class="nav-link" data-widget="navbar-search" href="#" role="button">
                            <i class="fas fa-search"></i>
                        </a>
                    </li>
                    <div class="navbar-search-block">
                        <form class="form-inline">
                            <div class="input-group input-group-sm">
                                <input class="form-control form-control-navbar" type="search" placeholder="Search" aria-label="Search" />
                                <div class="input-group-append">
                                    <button class="btn btn-navbar" type="submit">
                                        <i class="fas fa-search"></i>
                                    </button>
                                    <button class="btn btn-navbar" type="button" data-widget="navbar-search">
                                        <i class="fas fa-times"></i>
                                    </button>
                                </div>
                            </div>
                        </form>
                    </div>
                </li>
                <li class="nav-item">
                    <a class="nav-link" data-widget="fullscreen" href="#" role="button">
                        <i class="fas fa-expand-arrows-alt"></i>
                    </a>
                </li>
                <li class="nav-item">
                    <a class="nav-link" data-widget="control-sidebar" data-slide="true" href="#" role="button">
                        <i class="fas fa-th-large"></i>
                    </a>
                </li>
                <li class="nav-item">
                    <a class="nav-link btn btn-sm btn-danger" href="{{ url_for('index') }}" role="button"><i class="fas fa-sign-out-alt mr-2"></i>Log Out</a>
                </li>
            </ul>
        </nav>
        <aside class="main-sidebar sidebar-dark-primary elevation-4">
            <a href="{{ url_for('dashboard') }}" class="brand-link">
                
                <span class="brand-text font-weight-light">Perpustakaan TMJ</span>
            </a>
            <div class="sidebar">
                <div class="user-panel mt-3 pb-3 mb-3 d-flex">
                    <div class="image">
                        
                    </div>
                    <div class="info">
                        <a href="#" class="d-block">Shoffan Darul M.</a>
                    </div>
                </div>
                <div class="form-inline">
                    <div class="input-group" data-widget="sidebar-search">
                        <input class="form-control form-control-sidebar" type="search" placeholder="Search" aria-label="Search" />
                        <div class="input-group-append">
                            <button class="btn btn-sidebar">
                                <i class="fas fa-search fa-fw"></i>
                            </button>
                        </div>
                    </div>
                </div>
                <nav class="mt-2">
                    <ul class="nav nav-pills nav-sidebar flex-column" data-widget="treeview" role="menu" data-accordion="false">
                        <li class="nav-item menu-open">
                            <a href="{{ url_for('dashboard') }}" class="nav-link">
                                <i class="nav-icon fas fa-tachometer-alt"></i>
                                <p>Dashboard</p>
                            </a>
                        </li>
                    </ul>
                </nav>
            </div>
        </aside>
    </body>
</html>
```



```

192 <td class="project-actions">
193     <a class="btn btn-info btn-sm" href="anggotaUpdate/{{ item[0] }}">
194         <i class="fas fa-pencil-alt"> </i>
195         Edit
196     </a>
197     <a class="btn btn-danger btn-sm" href="anggotaDelete/{{ item[0] }}" onclick="return confirm('Are you sure you want to delete?');">
198         <i class="fas fa-trash"> </i>
199         Delete
200     </a>
201 </td>
202 </tr>
203 {% endfor %}
204 </tbody>
205 </table>
206 </div>
207 </div>
208 </section>
209 </div>
210 <footer class="main-footer">
211     <strong>Copyright © 2022 <a href="{{ url_for('index') }}>Shoffan Darul Mufti</a></strong>
212     All rights reserved.
213     <div class="float-right d-none d-sm-inline-block"><b>Version</b> 1.0</div>
214 </footer>
215 <aside class="control-sidebar control-sidebar-dark"></aside>
216 </div>
217 <script src="../static/plugins/jquery/jquery.min.js"></script>
218 <script src="../static/plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
219 <script src="../static/js/adminlte.min.js"></script>
220 </body>
221 </html>
222

```

## Source Code Python:

```

224     @application.route('/anggota')
225     def anggota():
226         output_json = getMethod("SELECT * from anggota")
227         return render_template('anggota.html',kalimat=output_json)
228

```

Hasilnya seperti berikut:

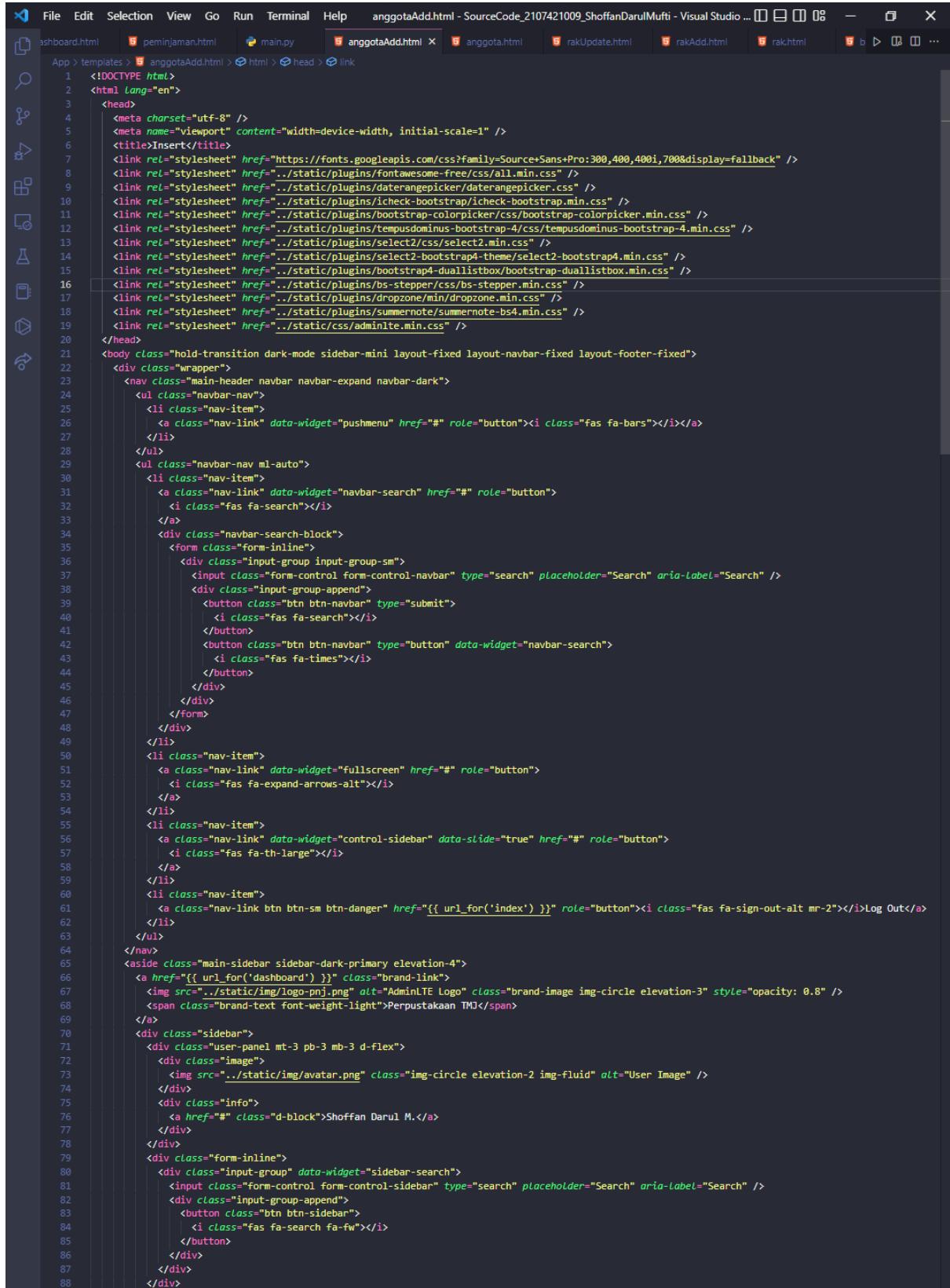
ID Anggota	Nama	Kode	JK	Jurusan	No. Telpon	Alamat	Edit/Delete
2107421010	Conan Edogawa	TIK 2021	L	IT	081234567890	Tokyo, Japan	<button>Edit</button> <button>Delete</button>
2107421011	Ai Haibara	TIK 2021	P	IT	081234567890	Kyoto, Japan	<button>Edit</button> <button>Delete</button>

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## 22. Membuat Form Tambah Anggota

Di dalam menu Anggota, ada tombol untuk Tambah Anggota. Tambah Anggota berfungsi untuk menambahkan Anggota baru ke tabel.

Source Code HTML:

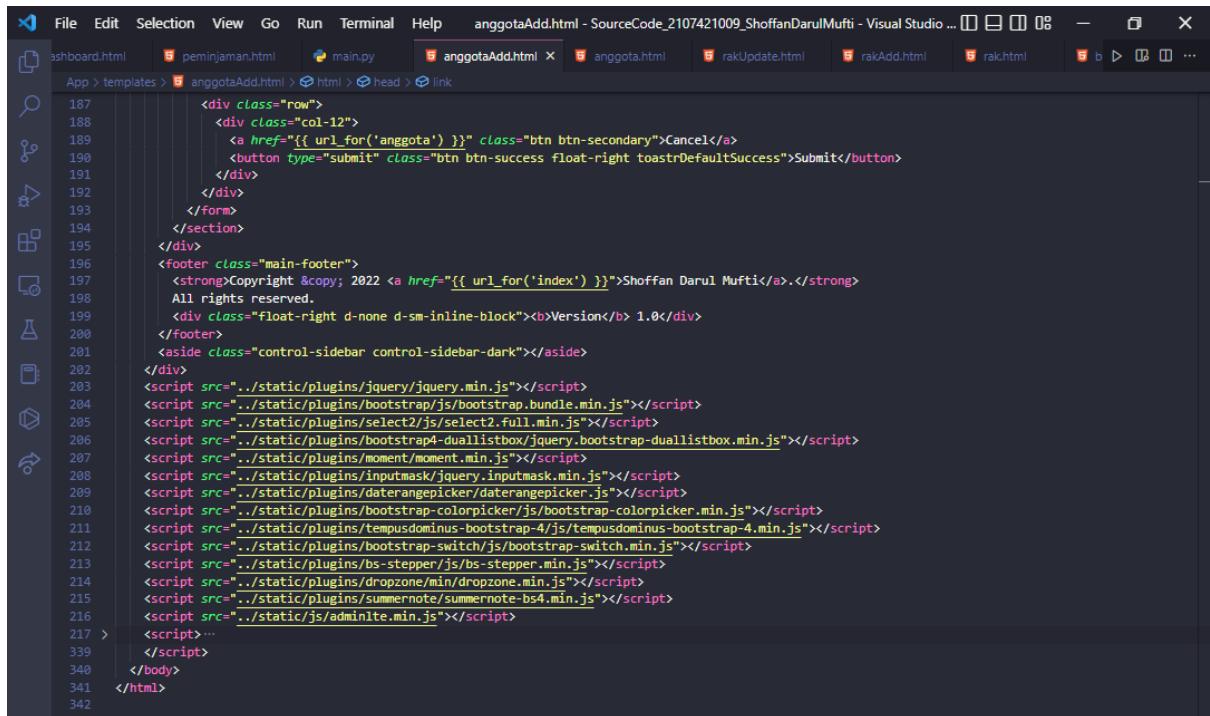


The screenshot shows the Visual Studio Code interface with the file 'anggotaAdd.html' open in the center. The code is an HTML template for a member addition form. It includes a header with various CSS links, a main navigation bar with items like 'pushmenu', 'search', and 'fullscreen', and a sidebar with user information and a search bar. The code uses Bootstrap classes and data attributes for widgets.

```
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="utf-8" />
        <meta name="viewport" content="width=device-width, initial-scale=1" />
        <title>Insert</title>
        <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,700&display=fallback" />
        <link rel="stylesheet" href="../../static/plugins/fontawesome-free/css/all.min.css" />
        <link rel="stylesheet" href="../../static/plugins/daterangepicker/daterangepicker.css" />
        <link rel="stylesheet" href="../../static/plugins/iCheck-bootstrap/iCheck-bootstrap.min.css" />
        <link rel="stylesheet" href="../../static/plugins/bootstrap-colorpicker/css/bootstrap-colorpicker.min.css" />
        <link rel="stylesheet" href="../../static/plugins/tempusdominus-bootstrap-4/css/tempusdominus-bootstrap-4.min.css" />
        <link rel="stylesheet" href="../../static/plugins/select2/css/select2.min.css" />
        <link rel="stylesheet" href="../../static/plugins/select2-bootstrap4-theme/select2-bootstrap4.min.css" />
        <link rel="stylesheet" href="../../static/plugins/bootstrap4-duallistbox/bootstrap4-duallistbox.min.css" />
        <link rel="stylesheet" href="../../static/plugins/bs-stepper/css/bs-stepper.min.css" />
        <link rel="stylesheet" href="../../static/plugins/dropzone/min/dropzone.min.css" />
        <link rel="stylesheet" href="../../static/plugins/summernote/summernote-bs4.min.css" />
        <link rel="stylesheet" href="../../static/css/adminlte.min.css" />
    </head>
    <body class="hold-transition dark-mode sidebar-mini layout-fixed layout-navbar-fixed layout-footer-fixed">
        <div class="wrapper">
            <nav class="main-header navbar navbar-expand navbar-dark">
                <ul class="navbar-nav">
                    <li class="nav-item">
                        <a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
                    </li>
                </ul>
                <ul class="navbar-nav ml-auto">
                    <li class="nav-item">
                        <a class="nav-link" data-widget="navbar-search" href="#" role="button">
                            <i class="fas fa-search"></i>
                        </a>
                    <div class="navbar-search-block">
                        <form class="form-inline">
                            <div class="input-group input-group-sm">
                                <input class="form-control form-control-navbar" type="search" placeholder="Search" aria-label="Search" />
                            <div class="input-group-append">
                                <button class="btn btn-navbar" type="submit">
                                    <i class="fas fa-search"></i>
                                </button>
                                <button class="btn btn-navbar" type="button" data-widget="navbar-search">
                                    <i class="fas fa-times"></i>
                                </button>
                            </div>
                        </div>
                    </div>
                    </li>
                </ul>
                <li class="nav-item">
                    <a class="nav-link" data-widget="fullscreen" href="#" role="button">
                        <i class="fas fa-expand-arrows-alt"></i>
                    </a>
                </li>
                <li class="nav-item">
                    <a class="nav-link" data-widget="control-sidebar" data-slide="true" href="#" role="button">
                        <i class="fas fa-th-large"></i>
                    </a>
                </li>
                <li class="nav-item">
                    <a class="nav-link btn btn-sm btn-danger" href="{{ url_for('index') }}" role="button"><i class="fas fa-sign-out-alt mr-2"></i>Log Out</a>
                </li>
            </ul>
        </nav>
        <aside class="main-sidebar sidebar-dark-primary elevation-4">
            <a href="{{ url_for('dashboard') }}" class="brand-link">
                
                <span class="brand-text font-weight-light">Perpustakaan TMJ</span>
            </a>
            <div class="sidebar">
                <div class="user-panel mt-3 pb-3 mb-3 d-flex">
                    <div class="image">
                        
                    </div>
                    <div class="info">
                        <a href="#" class="d-block">Shoffan Darul M.</a>
                    </div>
                </div>
                <div class="form-inline">
                    <div class="input-group" data-widget="sidebar-search">
                        <input class="form-control form-control-sidebar" type="search" placeholder="Search" aria-label="Search" />
                    <div class="input-group-append">
                        <button class="btn btn-sidebar">
                            <i class="fas fa-search fa-fw"></i>
                        </button>
                    </div>
                </div>
            </div>
        </aside>
    </div>

```





```
187     <div class="row">
188         <div class="col-12">
189             <a href="{{ url_for('anggota') }}" class="btn btn-secondary">Cancel</a>
190             <button type="submit" class="btn btn-success float-right toastrDefaultSuccess">Submit</button>
191         </div>
192     </div>
193     </form>
194 </section>
195 </div>
196 <footer class="main-footer">
197     <strong>Copyright © 2022 <a href="{{ url_for('index') }}">Shoffan Darul Mufti</a>.</strong>
198     All rights reserved.
199     <div class="float-right d-none d-sm-inline-block"><b>Version</b> 1.0</div>
200 </footer>
201 <aside class="control-sidebar control-sidebar-dark"></aside>
202 </div>
203 <script src="../static/plugins/jquery/jquery.min.js"></script>
204 <script src="../static/plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
205 <script src="../static/plugins/select2/js/select2.full.min.js"></script>
206 <script src="../static/plugins/bootstrap4-duallistbox/jquery.bootstrap-duallistbox.min.js"></script>
207 <script src="../static/plugins/moment/moment.min.js"></script>
208 <script src="../static/plugins/inputmask/jquery.inputmask.min.js"></script>
209 <script src="../static/plugins/daterangepicker/daterangepicker.js"></script>
210 <script src="../static/plugins/bootstrap-colorpicker/js/bootstrap-colorpicker.min.js"></script>
211 <script src="../static/plugins/tempusdominus-bootstrap-4/js/tempusdominus-bootstrap-4.min.js"></script>
212 <script src="../static/plugins/bootstrap-switch/js/bootstrap-switch.min.js"></script>
213 <script src="../static/plugins/bs-stepper/js/bs-stepper.min.js"></script>
214 <script src="../static/plugins/dropzone/min/dropzone.min.js"></script>
215 <script src="../static/plugins/summernote/summernote-bs4.min.js"></script>
216 <script src="../static/js/adminsite.min.js"></script>
217 > <script>...
218 </script>
219 </body>
220 </html>
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
```

## Source Code Python:



```
228 @application.route('/anggotaAdd', methods=['GET', 'POST'])
229 def anggotaAdd():
230     if request.method == 'GET':
231         return render_template('anggotaAdd.html')
232     elif request.method == 'POST':
233         id = request.form['id']
234         kode = request.form['kode']
235         nama = request.form['nama']
236         jk = request.form['jk']
237         jurusan = request.form['jurusan']
238         hp = request.form['hp']
239         alamat = request.form['alamat']
240         postMethod("INSERT INTO `anggota`(`id_anggota`, `kode_anggota`, `nama_anggota`, `jk_anggota`, `jurusan_anggota`, `no_telp_anggota`, `alamat_anggota`) VALUES ('"+id+"', '"+kode+"', '"+nama+"', '"+jk+"', '"+jurusan+"', '"+hp+"', '"+alamat+"');", 'Data anggota Berhasil Ditambah')
241         return redirect(url_for('anggota'))
242
243
```

Hasilnya seperti berikut:

Form Tambah Anggota Baru

ID Anggota	Kode Anggota
2107421009	TIK 2021
Nama	Jenis Kelamin (L/P)
Shoffan Darul Mufti	L
Jurusan	No. Telpon
IT	081211151717
Alamat	
Jakarta, Indonesia	

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Data anggota Berhasil Ditambah

ID Anggota	Nama	Kode	JK	Jurusan	No. Telpon	Alamat	Edit/Delete
2107421009	Shoffan Darul Mufti	TIK 2021	L	IT	081211151717	Jakarta, Indonesia	<button>Edit</button> <button>Delete</button>
2107421010	Conan Edogawa	TIK 2021	L	IT	081234567890	Tokyo, Japan	<button>Edit</button> <button>Delete</button>
2107421011	Ai Haibara	TIK 2021	P	IT	081234567890	Kyoto, Japan	<button>Edit</button> <button>Delete</button>

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## 23. Membuat Form Update Anggota

Di dalam menu Anggota, ada tombol untuk Update Anggota. Update Anggota berfungsi untuk mengubah data Anggota dari tabel.

Source Code HTML:



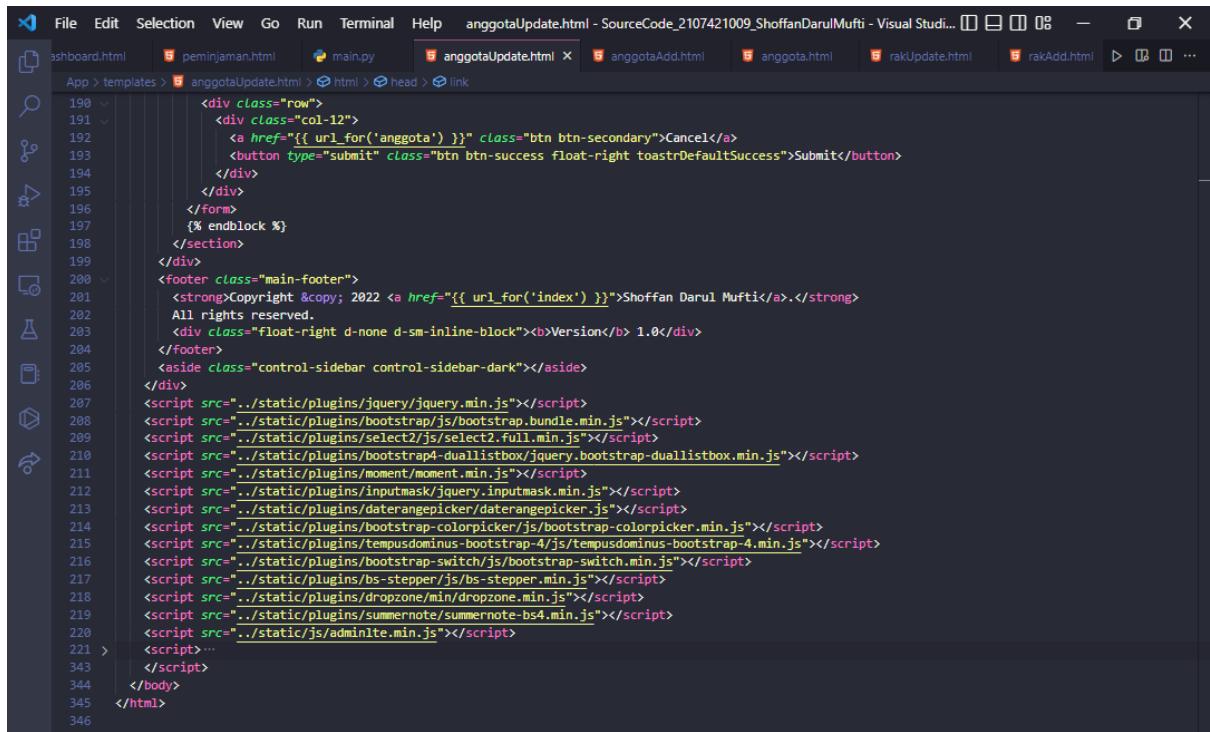
```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <title>Insert</title>
    <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,700&display=fallback" />
    <link rel="stylesheet" href="../../static/plugins/fontawesome-free/css/all.min.css" />
    <link rel="stylesheet" href="../../static/plugins/daterangepicker/daterangepicker.css" />
    <link rel="stylesheet" href="../../static/plugins/iCheck-bootstrap/icheck-bootstrap.min.css" />
    <link rel="stylesheet" href="../../static/plugins/bootstrap-colorpicker/css/bootstrap-colorpicker.min.css" />
    <link rel="stylesheet" href="../../static/plugins/tempusdominus-bootstrap-4/css/tempusdominus-bootstrap-4.min.css" />
    <link rel="stylesheet" href="../../static/plugins/select2/css/select2.min.css" />
    <link rel="stylesheet" href="../../static/plugins/select2-bootstrap4-theme/select2-bootstrap4.min.css" />
    <link rel="stylesheet" href="../../static/plugins/bootstrap4-duallistbox/bootstrap-duallistbox.min.css" />
    <link rel="stylesheet" href="../../static/plugins/bs-stepper/css/bs-stepper.min.css" />
    <link rel="stylesheet" href="../../static/plugins/dropzone/min/dropzone.min.css" />
    <link rel="stylesheet" href="../../static/plugins/summernote/summernote-bs4.min.css" />
    <link rel="stylesheet" href="../../static/css/adminlte.min.css" />
  </head>
  <body class="hold-transition dark-mode sidebar-mini layout-fixed layout-navbar-fixed layout-footer-fixed">
    <div class="wrapper">
      <nav class="main-header navbar navbar-expand navbar-dark">
        <ul class="navbar-nav">
          <li class="nav-item">
            <a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
          </li>
        </ul>
        <ul class="navbar-nav ml-auto">
          <li class="nav-item">
            <a class="nav-link" data-widget="navbar-search" href="#" role="button">
              <i class="fas fa-search"></i>
            </a>
            <div class="navbar-search-block">
              <form class="form-inline">
                <div class="input-group input-group-sm">
                  <input class="form-control form-control-navbar" type="search" placeholder="Search" aria-label="Search" />
                  <div class="input-group-append">
                    <button class="btn btn-navbar" type="submit">
                      <i class="fas fa-search"></i>
                    </button>
                    <button class="btn btn-navbar" type="button" data-widget="navbar-search">
                      <i class="fas fa-times"></i>
                    </button>
                  </div>
                </div>
              </form>
            </div>
          </li>
          <li class="nav-item">
            <a class="nav-link" data-widget="fullscreen" href="#" role="button">
              <i class="fas fa-expand-arrows-alt"></i>
            </a>
          </li>
          <li class="nav-item">
            <a class="nav-link" data-widget="control-sidebar" data-slide="true" href="#" role="button">
              <i class="fas fa-th-large"></i>
            </a>
          </li>
          <li class="nav-item">
            <a class="nav-link btn btn-sm btn-danger" href="{{ url_for('index') }}" role="button"><i class="fas fa-sign-out-alt mr-2"></i>Log Out</a>
          </li>
        </ul>
      </nav>
      <aside class="main-sidebar sidebar-dark-primary elevation-4">
        <a href="{{ url_for('dashboard') }}" class="brand-link">
          
          <span class="brand-text font-weight-light">Perpustakaan TMQ</span>
        </a>
        <div class="sidebar">
          <div class="user-panel mt-3 pb-3 mb-3 d-flex">
            <div class="image">
              
            </div>
            <div class="info">
              <a href="#" class="d-block">Shoffan Darul M.</a>
            </div>
          </div>
          <div class="form-inline">
            <div class="input-group" data-widget="sidebar-search">
              <input class="form-control form-control-sidebar" type="search" placeholder="Search" aria-label="Search" />
              <div class="input-group-append">
                <button class="btn btn-sidebar">
                  <i class="fas fa-search fa-fw"></i>
                </button>
              </div>
            </div>
          </div>
        </div>
      </aside>
    </div>
  </body>

```

```
File Edit Selection View Go Run Terminal Help anggotaUpdate.html - SourceCode_2107421009_ShoffanDarulMufti - Visual Studio... □ □ □ 08 — □ ×
ashboard.html peminjaman.html main.py anggotaUpdate.html × anggotaAdd.html anggota.html rakUpdate.html rakAdd.html ▶ □ □ ...
```

App > templates > anggotaUpdate.html > head > link

```
89     <nav class="mt-2">
90         <ul class="nav nav-pills nav-sidebar flex-column" data-widget="treeview" role="menu" data-accordion="false">
91             <li class="nav-item menu-open">
92                 <a href="{% url_for('dashboard') }" class="nav-link">
93                     <i class="nav-icon fas fa-tachometer-alt"></i>
94                     <p>Dashboard</p>
95                 </a>
96             </li>
97             <li class="nav-item">
98                 <a href="{% url_for('peminjaman') }" class="nav-link">
99                     <i class="nav-icon fas fa-arrow-alt-circle-up"></i>
100                    <p>Peminjaman</p>
101                </a>
102            </li>
103            <li class="nav-item">
104                <a href="{% url_for('pengembalian') }" class="nav-link">
105                    <i class="nav-icon fas fa-arrow-alt-circle-down"></i>
106                    <p>Pengembalian</p>
107                </a>
108            </li>
109            <li class="nav-item">
110                <a href="{% url_for('buku') }" class="nav-link">
111                    <i class="nav-icon fas fa-book"></i>
112                    <p>Tabel Buku</p>
113                </a>
114            </li>
115            <li class="nav-item">
116                <a href="{% url_for('rak') }" class="nav-link">
117                    <i class="nav-icon fas fa-bookmark"></i>
118                    <p>Tabel Rak</p>
119                </a>
120            </li>
121            <li class="nav-item">
122                <a href="{% url_for('anggota') }" class="nav-link active">
123                    <i class="nav-icon fas fa-user"></i>
124                    <p>Tabel Anggota</p>
125                </a>
126            </li>
127            <li class="nav-item">
128                <a href="{% url_for('petugas') }" class="nav-link">
129                    <i class="nav-icon fas fa-user"></i>
130                    <p>Tabel Petugas</p>
131                </a>
132            </li>
133        </ul>
134    </nav>
135 </div>
136 </aside>
137 <div class="content-wrapper">
138     <section class="content-header">
139         <div class="container-fluid">
140             <div class="row mb-2"></div>
141         </div>
142     </section>
143     <section class="content">
144         {% block content %}>
145         <form method="POST">
146             <div class="card card-primary">
147                 <div class="card-header">
148                     <h3 class="card-title">Form Update Data Anggota</h3>
149                     <div class="card-tools">
150                         <button type="button" class="btn btn-tool" data-card-widget="collapse" title="Collapse">
151                             <i class="fas fa-minus"></i>
152                         </button>
153                     </div>
154                 </div>
155                 <div class="card-body">
156                     <div class="row">
157                         {% for item in kalimat %}>
158                         <div class="form-group col-md-6">
159                             <label>ID Anggota</label>
160                             <input type="text" name="id_anggota" class="form-control" value="{{ item[0] }}"/>
161                         </div>
162                         <div class="form-group col-md-6">
163                             <label>Kode Anggota</label>
164                             <input type="text" name="kode" class="form-control" value="{{ item[1] }}"/>
165                         </div>
166                         <div class="form-group col-md-6">
167                             <label>Nama</label>
168                             <input type="text" name="nama" class="form-control" value="{{ item[2] }}"/>
169                         </div>
170                         <div class="form-group col-md-6">
171                             <label>Jenis Kelamin</label>
172                             <input type="text" name="jk" class="form-control" value="{{ item[3] }}"/>
173                         </div>
174                         <div class="form-group col-md-6">
175                             <label>Jurusan</label>
176                             <input type="text" name="jurusan" class="form-control" value="{{ item[4] }}"/>
177                         </div>
178                         <div class="form-group col-md-6">
179                             <label>No. Telpoin</label>
180                             <input type="text" name="hp" class="form-control" value="{{ item[5] }}"/>
181                         </div>
182                         <div class="form-group col-md-12">
183                             <label>Alamat</label>
184                             <textarea class="form-control" name="alamat">{{ item[6] }}</textarea>
185                         <% endfor %>
186                     </div>
187                 </div>
188             </div>
189         </div>
```



```
<div>
<div>
<div>
<a href="{{ url_for('anggota') }}" class="btn btn-secondary">CancelSubmit
```

## Source Code Python:

```
243
244 @application.route('/anggotaUpdate<int:id>', methods=['GET', 'POST'])
245 def anggotaUpdate(id):
246     if request.method == 'GET':
247         output_json = getMethod("SELECT * from anggota WHERE id_anggota='"+str(id)+"';")
248         return render_template('anggotaUpdate.html', kalimat=output_json)
249
250     elif request.method == 'POST':
251         id_anggota = request.form['id_anggota']
252         kode = request.form['kode']
253         nama = request.form['nama']
254         jk = request.form['jk']
255         jurusan = request.form['jurusan']
256         hp = request.form['hp']
257         alamat = request.form['alamat']
258         postMethod("UPDATE `anggota` SET `id_anggota` = '"+id_anggota+"', `kode_anggota` = '"+kode+"', `nama_anggota` = '"+nama+"', `jk_anggota` = '"+jk+"', `jurusan_anggota` = '"+jurusan+"', `no_telp_anggota` = '"+hp+"', `alamat_anggota` = '"+alamat+"' WHERE `anggota`.`id_anggota` = "+str(id)+";", 'Data anggota Berhasil Diubah')
259         return redirect(url_for('anggota'))
```

Hasilnya seperti berikut:

Form Update Data Anggota

ID Anggota	Kode Anggota
2107421011	Ai Haibara
Nama	Jenis Kelamin
TIK 2021	P
Jurusan	No. Telpon
IT	-
Alamat	
Bekasi, Indonesia	

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Data anggota Berhasil Diubah

ID Anggota	Nama	Kode	JK	Jurusan	No. Telpon	Alamat	Edit/Delete
2107421009	Shoffan Darul Mufti	TIK 2021	L	IT	081211151717	Jakarta, Indonesia	<button>Edit</button> <button>Delete</button>
2107421010	Conan Edogawa	TIK 2021	L	IT	081234567890	Tokyo, Japan	<button>Edit</button> <button>Delete</button>
2107421011	TIK 2021	Ai Haibar	P	IT	-	Bekasi, Indonesia	<button>Edit</button> <button>Delete</button>

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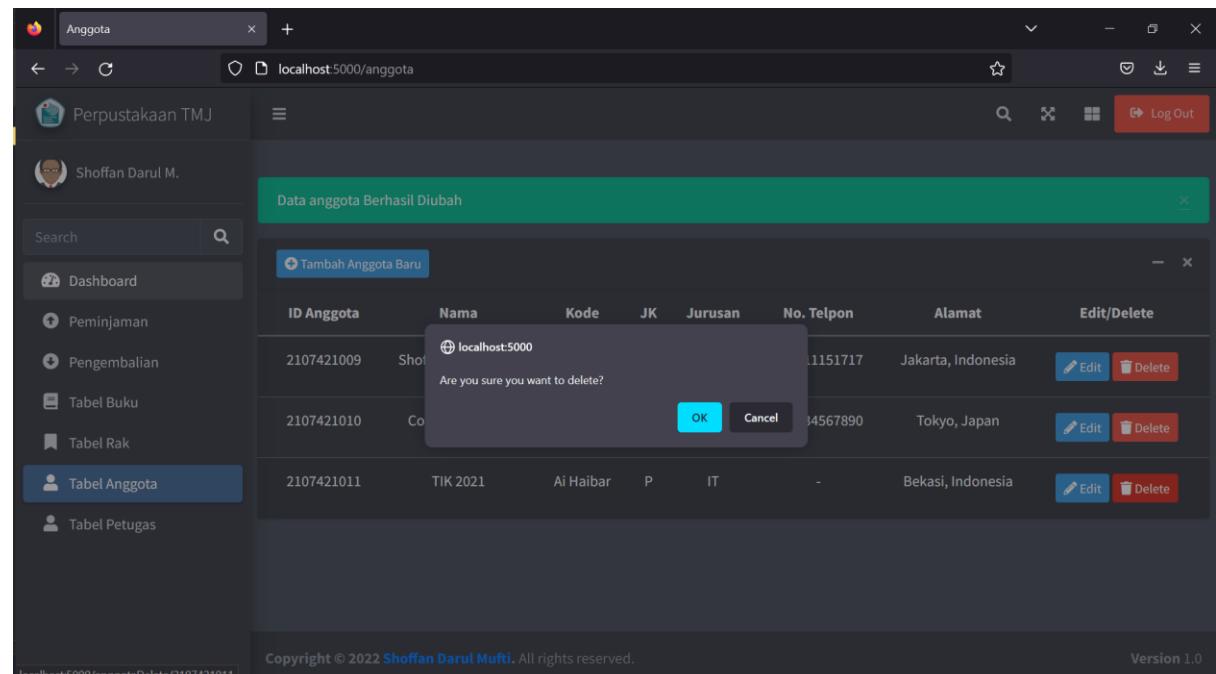
## 24. Membuat Form Delete Anggota

Di dalam menu Anggota, ada tombol untuk Delete Anggota. Delete Anggota berfungsi untuk menghapus data Anggota dari tabel.

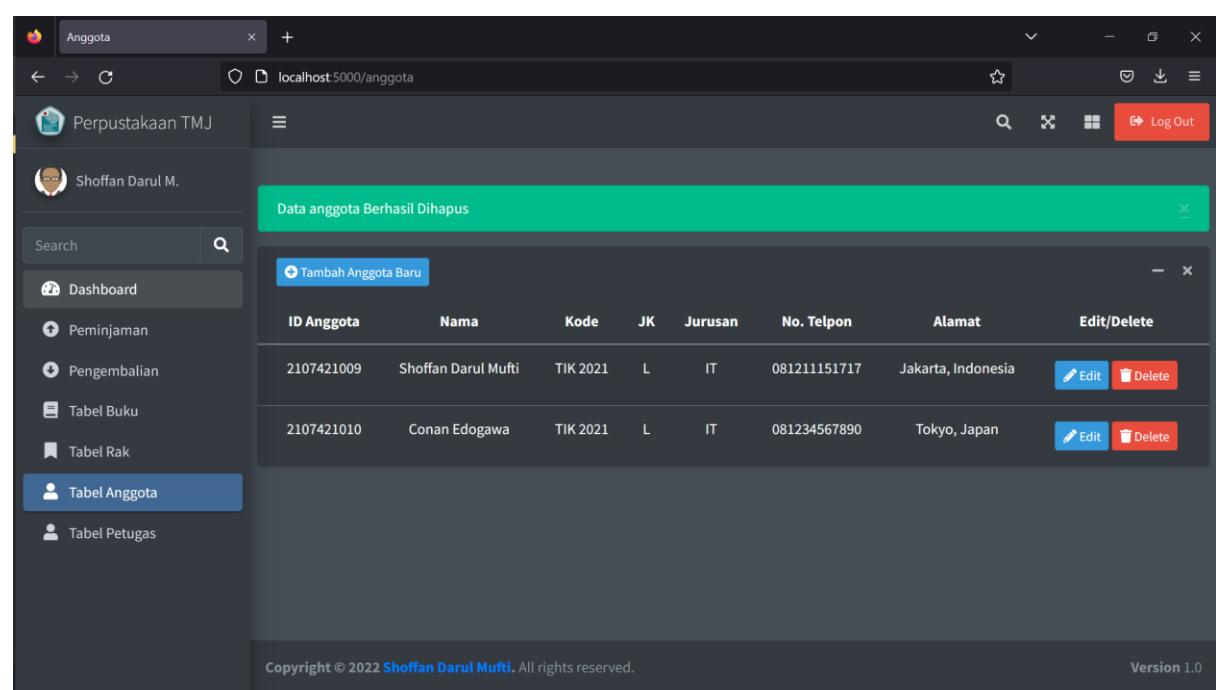
Source Code Python:

```
200
201     @application.route('/anggotaDelete<int:id>', methods=['GET'])
202     def anggotaDelete(id):
203         if request.method == 'GET':
204             postMethod("DELETE FROM `anggota` WHERE `anggota`.`id_anggota` = '"+str(id)+"';", 'Data anggota Berhasil Dihapus')
205             return redirect(url_for('anggota'))
206
207
```

Hasilnya seperti berikut:



The screenshot shows a web application interface for managing library members ('Anggota'). On the left is a sidebar with links like 'Dashboard', 'Peminjaman', 'Pengembalian', 'Tabel Buku', 'Tabel Rak', 'Tabel Anggota' (which is highlighted in blue), and 'Tabel Petugas'. The main content area displays a table of member data with columns: ID Anggota, Nama, Kode, JK, Jurusan, No. Telpon, Alamat, and Edit/Delete buttons. A modal dialog box is centered over the table, containing the text 'localhost:5000' and 'Are you sure you want to delete?'. At the bottom right of the dialog are 'OK' and 'Cancel' buttons.

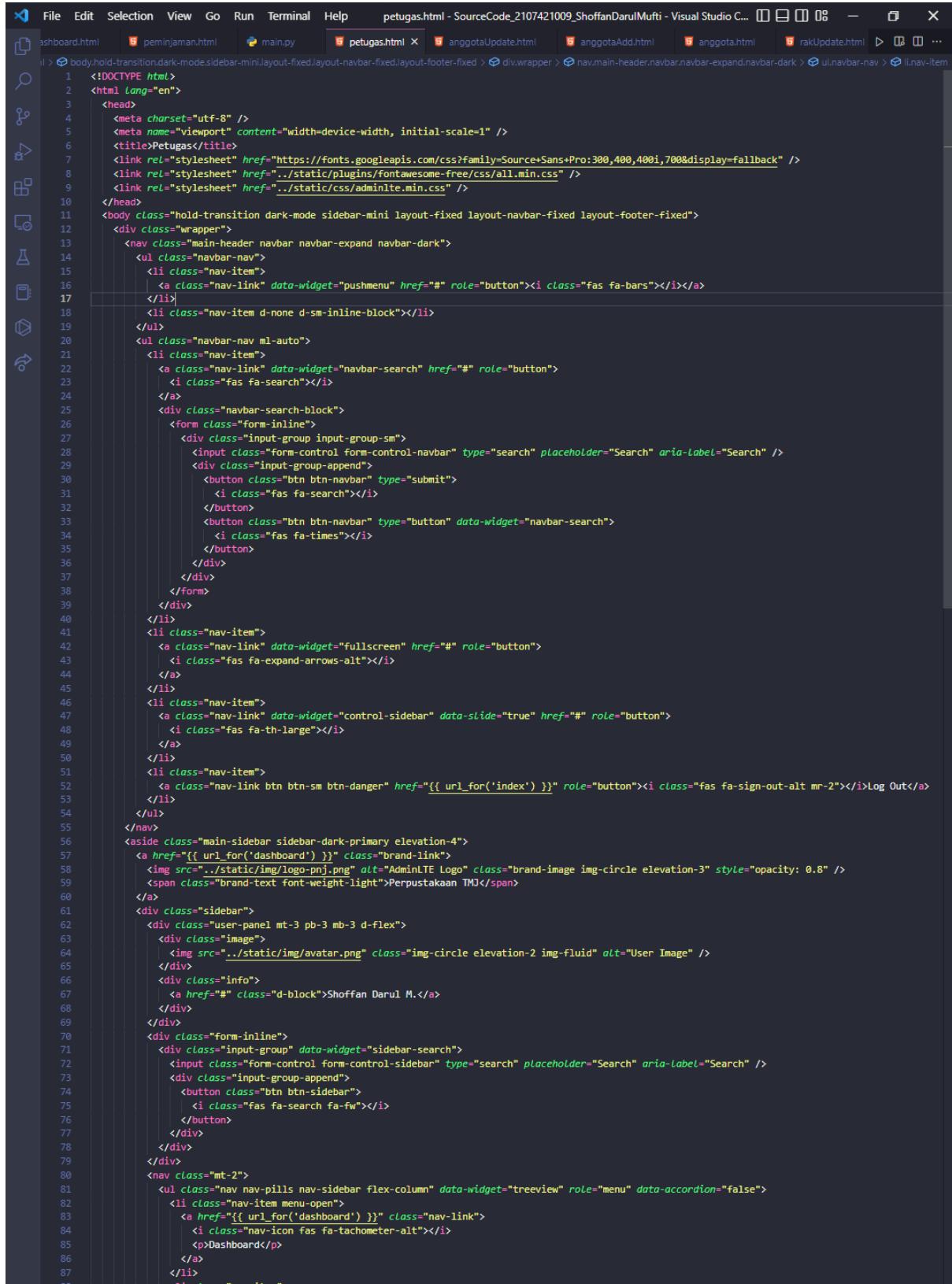


This screenshot shows the same web application after a deletion action. The confirmation dialog from the previous screenshot has been closed, and the main table now shows only two rows of data. A green header bar at the top of the main content area displays the message 'Data anggota Berhasil Dihapus'.

## 25. Membuat Tabel Petugas

Di dalam dashboard, ada menu Tabel Petugas. Menu Tabel Petugas berisikan tabel daftar Tabel Petugas yang ada.

Source Code HTML:



```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <title>Petugas</title>
    <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,700&display=fallback" />
    <link rel="stylesheet" href="../static/plugins/fontawesome-free/css/all.min.css" />
    <link rel="stylesheet" href="../static/css/adminlte.min.css" />
  </head>
  <body class="hold-transition dark-mode sidebar-mini layout-fixed layout-navbar-fixed layout-footer-fixed">
    <div class="wrapper">
      <nav class="main-header navbar navbar-expand navbar-dark">
        <ul class="navbar-nav">
          <li class="nav-item">
            <a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
          </li>
          <li class="nav-item d-none d-sm-inline-block"></li>
        </ul>
        <ul class="navbar-nav ml-auto">
          <li class="nav-item">
            <a class="nav-link" data-widget="navbar-search" href="#" role="button">
              <i class="fas fa-search"></i>
            </a>
            <div class="navbar-search-block">
              <form class="form-inline">
                <div class="input-group input-group-sm">
                  <input class="form-control form-control-navbar" type="search" placeholder="Search" aria-label="Search" />
                  <div class="input-group-append">
                    <button class="btn btn-navbar" type="submit">
                      <i class="fas fa-search"></i>
                    </button>
                    <button class="btn btn-navbar" type="button" data-widget="navbar-search">
                      <i class="fas fa-times"></i>
                    </button>
                  </div>
                </div>
              </form>
            </div>
          </li>
          <li class="nav-item">
            <a class="nav-link" data-widget="fullscreen" href="#" role="button">
              <i class="fas fa-expand-arrows-alt"></i>
            </a>
          </li>
          <li class="nav-item">
            <a class="nav-link" data-widget="control-sidebar" data-slide="true" href="#" role="button">
              <i class="fas fa-th-large"></i>
            </a>
          </li>
          <li class="nav-item">
            <a class="nav-link btn btn-sm btn-danger" href="{{ url_for('index') }}" role="button"><i class="fas fa-sign-out-alt mr-2"></i>Log Out</a>
          </li>
        </ul>
      </nav>
      <aside class="main-sidebar sidebar-dark-primary elevation-4">
        <a href="{{ url_for('dashboard') }}" class="brand-link">
          
          <span class="brand-text font-weight-light">Perpustakaan TMJ</span>
        </a>
        <div class="sidebar">
          <div class="user-panel mt-3 pb-3 mb-3 d-flex">
            <div class="image">
              
            </div>
            <div class="info">
              <a href="#" class="d-block">Shoffan Darul M.</a>
            </div>
          </div>
          <div class="form-inline">
            <div class="input-group" data-widget="sidebar-search">
              <input class="form-control form-control-sidebar" type="search" placeholder="Search" aria-label="Search" />
              <div class="input-group-append">
                <button class="btn btn-sidebar">
                  <i class="fas fa-search fa-fw"></i>
                </button>
              </div>
            </div>
          </div>
          <nav class="mt-2">
            <ul class="nav nav-pills nav-sidebar flex-column" data-widget="treeview" role="menu" data-accordion="false">
              <li class="nav-item menu-open">
                <a href="{{ url_for('dashboard') }}" class="nav-link">
                  <i class="nav-icon fas fa-tachometer-alt"></i>
                  <p>Dashboard</p>
                </a>
              </li>
            </ul>
          </nav>
        </div>
      </aside>
    </div>
  </body>
</html>
```

```
File Edit Selection View Go Run Terminal Help petugas.html - SourceCode_2107421009_ShoffanDarulMufti - Visual Studio C... □ □ □ □ □ - □ ×
ashboard.html peminjaman.html main.py petugas.html anggotaUpdate.html anggotaAdd.html anggota.html rakUpdate.html ▶ □ □ ...
il > body.hold-transition.dark-mode.sidebar-mini.layout-fixed.layout-navbar-fixed.layout-footer-fixed > div.wrapper > nav.main-header.navbar.navbar-expand.navbar-dark > ul.navbar-nav > li.nav-item
88         <li class="nav-item">
89             <a href="{{ url_for('peminjaman') }}" class="nav-link">
90                 <i class="nav-icon fas fa-arrow-alt-circle-up"></i>
91                 <p>Peminjaman</p>
92             </a>
93         </li>
94         <li class="nav-item">
95             <a href="{{ url_for('pengembalian') }}" class="nav-link">
96                 <i class="nav-icon fas fa-arrow-alt-circle-down"></i>
97                 <p>Pengembalian</p>
98             </a>
99         </li>
100        <li class="nav-item">
101            <a href="{{ url_for('buku') }}" class="nav-link">
102                <i class="nav-icon fas fa-book"></i>
103                <p>Tabel Buku</p>
104            </a>
105        </li>
106        <li class="nav-item">
107            <a href="{{ url_for('rak') }}" class="nav-link">
108                <i class="nav-icon fas fa-bookmark"></i>
109                <p>Tabel Rak</p>
110            </a>
111        </li>
112        <li class="nav-item">
113            <a href="{{ url_for('anggota') }}" class="nav-link">
114                <i class="nav-icon fas fa-user"></i>
115                <p>Tabel Anggota</p>
116            </a>
117        </li>
118        <li class="nav-item active">
119            <a href="{{ url_for('petugas') }}" class="nav-link active">
120                <i class="nav-icon fas fa-user"></i>
121                <p>Tabel Petugas</p>
122            </a>
123        </li>
124    </ul>
125 </nav>
126 </div>
127 </aside>
128 <div class="content-wrapper">
129     <section class="content-header">
130         <div class="container-fluid">
131             <div class="row mb-2"></div>
132         </div>
133     </section>
134     <section class="content">
135         <div class="alert alert-success">
136             <a href="#" class="close text-white" data-dismiss="alert" aria-label="close">&times;</a>
137             {% for messages in get_flashed_messages() %} {% if messages %} {% for message in messages %} {{ message }} {% endif %} {% endif %} {% endwith %}
138         </div>
139         <div class="card">
140             <div class="card-header">
141                 <a class="btn btn-info btn-sm" href="{{ 'petugasAdd' }}>
142                     <i class="fas fa-plus-circle"></i>
143                     Tambah Petugas Baru
144                 </a>
145             <div class="card-tools">
146                 <button type="button" class="btn btn-tool" data-card-widget="collapse" title="Collapse">
147                     <i class="fas fa-minus"></i>
148                 </button>
149                 <button type="button" class="btn btn-tool" data-card-widget="remove" title="Remove">
150                     <i class="fas fa-times"></i>
151                 </button>
152             </div>
153         </div>
154         <div class="card-body p-0">
155             <table class="table table-striped projects text-center">
156                 <thead>
157                     <tr>
158                         <th>ID Petugas</th>
159                         <th>Nama Petugas</th>
160                         <th>Jabatan</th>
161                         <th>No. Telpon</th>
162                         <th>Alamat</th>
163                         <th>Edit/Delete</th>
164                     </tr>
165                 </thead>
166                 <tbody>
167                     {% for item in kalimat %}
168                     <tr>
169                         <td>
170                             <p href="{{ item }}>{{ item[0] }}</p>
171                         </td>
172                         <td>
173                             <p href="{{ item }}>{{ item[1] }}</p>
174                         </td>
175                         <td>
176                             <p href="{{ item }}>{{ item[2] }}</p>
177                         </td>
178                         <td>
179                             <p href="{{ item }}>{{ item[3] }}</p>
180                         </td>
181                         <td>
182                             <p href="{{ item }}>{{ item[4] }}</p>
183                         </td>
184                     </tr>
185                 </tbody>
186             </table>
187         </div>
188     </section>
189 
```

```
184         <td class="project-actions">
185             <a class="btn btn-info btn-sm" href="#">Edit</a>
186             <a class="btn btn-danger btn-sm" href="#" onclick="return confirm('Are you sure you want to delete?');">Delete</a>
187         </td>
188     </tr>
189     {% endfor %}
190   </tbody>
191 </table>
192 </div>
193 </div>
194 </div>
195 </div>
196 </div>
197 </div>
198 </div>
199 </div>
200 </div>
201 </div>
202 <strong>Copyright &copy; 2022 <a href="{{ url_for('index') }}>Shoffan Darul Mufti</a></strong>
203 All rights reserved.
204 <div class="float-right d-none d-sm-inline-block"><b>Version</b> 1.0</div>
205 </div>
206 </div>
207 <aside class="control-sidebar control-sidebar-dark"></aside>
208 </div>
209 <script src="../../static/plugins/jquery/jquery.min.js"></script>
210 <script src="../../static/plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
211 <script src="../../static/js/admininite.min.js"></script>
212 </body>
213 </html>
214
```

## Source Code Python:

```
265     @application.route('/petugas')
266     def petugas():
267         output_json = getMethod("SELECT * from petugas")
268         return render_template('petugas.html',kalimat=output_json)
269
270
271
```

Hasilnya seperti berikut:

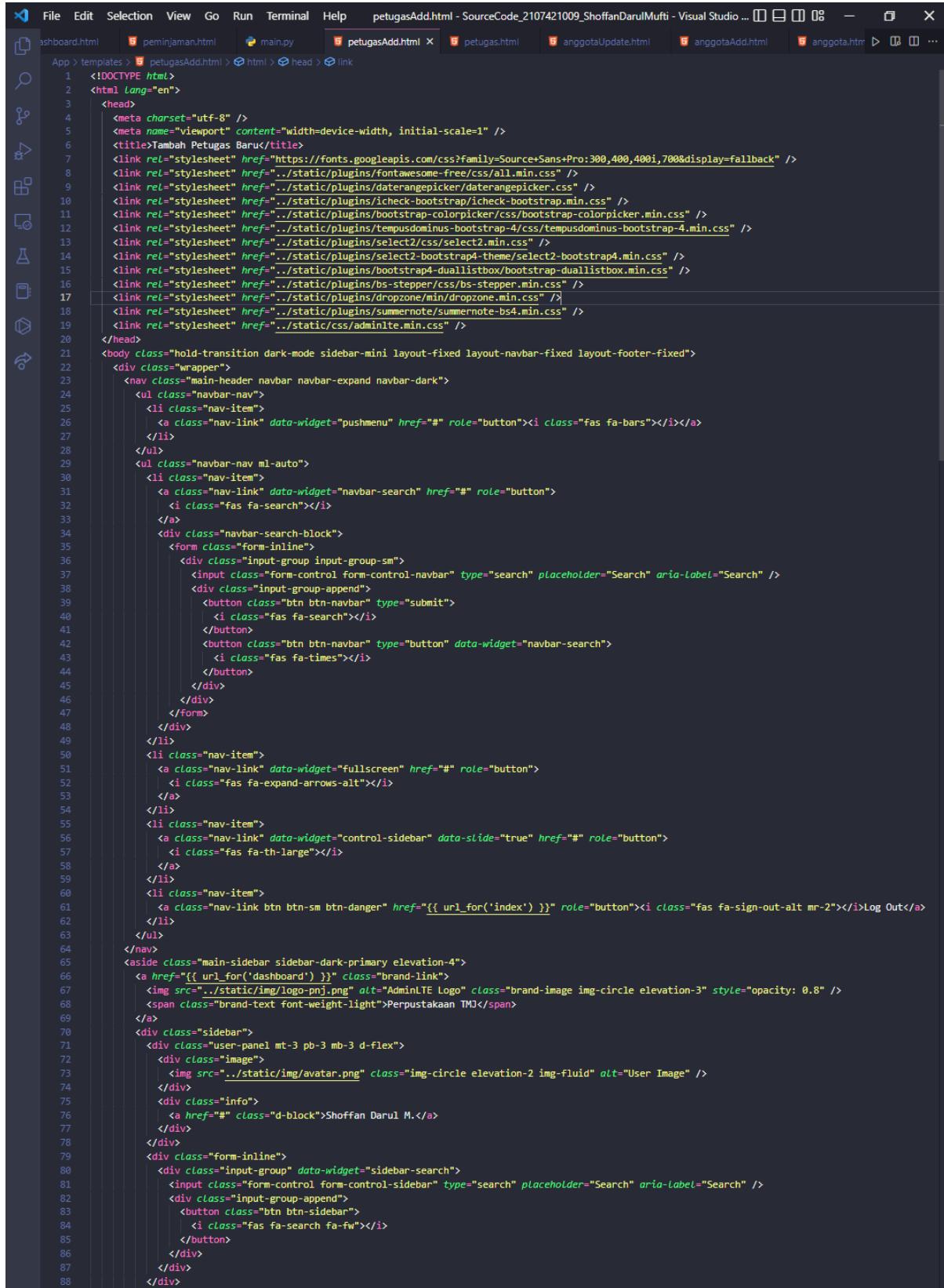
ID Petugas	Nama Petugas	Jabatan	No. Telpon	Alamat	Edit/Delete
5001	Pak Ainota	Kepala Perpustakaan	081234567890	Depok, Jakarta	<a href="#">Edit</a> <a href="#">Delete</a>
5002	Bu Kubaru	Staff Perpustakaan	081234567890	Depok	<a href="#">Edit</a> <a href="#">Delete</a>

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## 26. Membuat Form Tambah Petugas

Di dalam menu Petugas, ada tombol untuk Tambah Petugas. Tambah Petugas berfungsi untuk menambahkan Petugas baru ke tabel.

Source Code HTML:



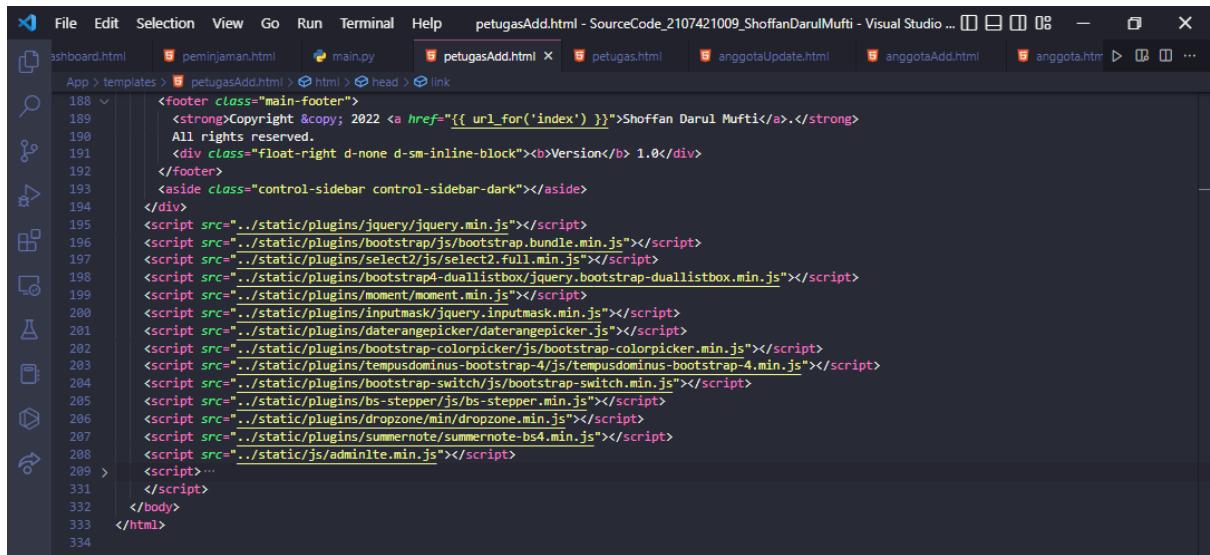
The screenshot shows the Visual Studio Code interface with the 'petugasAdd.html' file open. The file contains the HTML code for a 'Tambah Petugas Baru' (Add New Staff) page. The code includes a header with various CSS links, a main navigation bar with items like 'pushmenu', 'search', and 'fullscreen', and a sidebar with a user profile picture and sign-out link. The main content area is currently empty, indicated by a large white space.

```
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="utf-8" />
        <meta name="viewport" content="width=device-width, initial-scale=1" />
        <title>Tambah Petugas Baru</title>
        <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,700&display=fallback" />
        <link rel="stylesheet" href="..static/plugins/fontawesome-free/css/all.min.css" />
        <link rel="stylesheet" href="..static/plugins/daterangepicker/daterangepicker.css" />
        <link rel="stylesheet" href="..static/plugins/iCheck-bootstrap/iCheck-bootstrap.min.css" />
        <link rel="stylesheet" href="..static/plugins/bootstrap-colorpicker/css/bootstrap-colorpicker.min.css" />
        <link rel="stylesheet" href="..static/plugins/tempusdominus-bootstrap-4/css/tempusdominus-bootstrap-4.min.css" />
        <link rel="stylesheet" href="..static/plugins/select2/css/select2.min.css" />
        <link rel="stylesheet" href="..static/plugins/select2-bootstrap4-theme/select2-bootstrap4.min.css" />
        <link rel="stylesheet" href="..static/plugins/bootstrap4-duallistbox/bootstrap4-duallistbox.min.css" />
        <link rel="stylesheet" href="..static/plugins/bs-stepper/css/bs-stepper.min.css" />
        <link rel="stylesheet" href="..static/plugins/dropzone/min/dropzone.min.css" />
        <link rel="stylesheet" href="..static/plugins/summernote/summernote-bs4.min.css" />
        <link rel="stylesheet" href="..static/css/adminlte.min.css" />
    </head>
    <body class="hold-transition dark-mode sidebar-mini layout-fixed layout-navbar-fixed layout-footer-fixed">
        <div class="wrapper">
            <nav class="main-header navbar navbar-expand navbar-dark">
                <ul class="navbar-nav">
                    <li class="nav-item">
                        <a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
                    </li>
                </ul>
                <ul class="navbar-nav ml-auto">
                    <li class="nav-item">
                        <a class="nav-link" data-widget="navbar-search" href="#" role="button">
                            <i class="fas fa-search"></i>
                        </a>
                    <div class="navbar-search-block">
                        <form class="form-inline">
                            <div class="input-group input-group-sm">
                                <input class="form-control form-control-navbar" type="search" placeholder="Search" aria-label="Search" />
                                <div class="input-group-append">
                                    <button class="btn btn-navbar" type="submit">
                                        <i class="fas fa-search"></i>
                                    </button>
                                    <button class="btn btn-navbar" type="button" data-widget="navbar-search">
                                        <i class="fas fa-times"></i>
                                    </button>
                                </div>
                            </div>
                        </form>
                    </div>
                    </li>
                </ul>
                <li class="nav-item">
                    <a class="nav-link" data-widget="fullscreen" href="#" role="button">
                        <i class="fas fa-expand-arrows-alt"></i>
                    </a>
                </li>
                <li class="nav-item">
                    <a class="nav-link" data-widget="control-sidebar" data-slide="true" href="#" role="button">
                        <i class="fas fa-th-large"></i>
                    </a>
                </li>
                <li class="nav-item">
                    <a class="nav-link btn btn-sm btn-danger" href="{{ url_for('index') }}" role="button"><i class="fas fa-sign-out-alt mr-2"></i>Log Out</a>
                </li>
            </ul>
        </nav>
        <aside class="main-sidebar sidebar-dark-primary elevation-4">
            <a href="{{ url_for('dashboard') }}" class="brand-link">
                
                <span class="brand-text font-weight-light">Perpustakaan TMJ</span>
            </a>
            <div class="sidebar">
                <div class="user-panel mt-3 pb-3 mb-3 d-flex">
                    <div class="image">
                        
                    </div>
                    <div class="info">
                        <a href="#" class="d-block">Shoffan Darul M.</a>
                    </div>
                </div>
                <div class="form-inline">
                    <div class="input-group" data-widget="sidebar-search">
                        <input class="form-control form-control-sidebar" type="search" placeholder="Search" aria-label="Search" />
                        <div class="input-group-append">
                            <button class="btn btn-sidebar">
                                <i class="fas fa-search fa-fw"></i>
                            </button>
                        </div>
                    </div>
                </div>
            </div>
        </aside>
    </div>

```

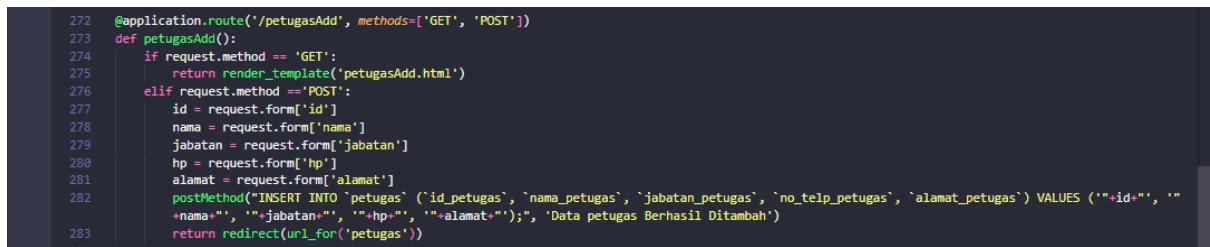
```
File Edit Selection View Go Run Terminal Help petugasAdd.html - SourceCode_2107421009_ShoffanDarulMufti - Visual Studio ...
```

```
App > templates > petugasAdd.html > HTML > head > link
 89
 90     <nav class="mt-2">
 91         <ul class="nav nav-pills nav-sidebar flex-column" data-widget="treeview" role="menu" data-accordion="false">
 92             <li class="nav-item menu-open">
 93                 <a href="{{ url_for('dashboard') }}" class="nav-link">
 94                     <i class="nav-icon fas fa-tachometer-alt"></i>
 95                     <p>Dashboard</p>
 96                 </a>
 97             </li>
 98             <li class="nav-item">
 99                 <a href="{{ url_for('peminjaman') }}" class="nav-link">
100                     <i class="nav-icon fas fa-arrow-alt-circle-up"></i>
101                     <p>Peminjaman</p>
102                 </a>
103             </li>
104             <li class="nav-item">
105                 <a href="{{ url_for('pengembalian') }}" class="nav-link">
106                     <i class="nav-icon fas fa-arrow-alt-circle-down"></i>
107                     <p>Pengembalian</p>
108                 </a>
109             </li>
110             <li class="nav-item">
111                 <a href="{{ url_for('buku') }}" class="nav-link">
112                     <i class="nav-icon fas fa-book"></i>
113                     <p>Tabel Buku</p>
114                 </a>
115             </li>
116             <li class="nav-item">
117                 <a href="{{ url_for('rak') }}" class="nav-link">
118                     <i class="nav-icon fas fa-bookmark"></i>
119                     <p>Tabel Rak</p>
120                 </a>
121             </li>
122             <li class="nav-item">
123                 <a href="{{ url_for('anggota') }}" class="nav-link">
124                     <i class="nav-icon fas fa-user"></i>
125                     <p>Tabel Anggota</p>
126                 </a>
127             </li>
128             <li class="nav-item active">
129                 <a href="{{ url_for('petugas') }}" class="nav-link active">
130                     <i class="nav-icon fas fa-user"></i>
131                     <p>Tabel Petugas</p>
132                 </a>
133             </li>
134         </ul>
135     </nav>
136 </div>
137 <div class="content-wrapper">
138     <section class="content-header">
139         <div class="container-fluid">
140             <div class="row mb-2"></div>
141         </div>
142     </section>
143     <section class="content">
144         <form method="POST">
145             <div class="card card-primary">
146                 <div class="card-header">
147                     <h3>Form Tambah Petugas Baru</h3>
148                     <div class="card-tools">
149                         <button type="button" class="btn btn-tool" data-card-widget="collapse" title="Collapse">
150                             <i class="fas fa-minus"></i>
151                         </button>
152                     </div>
153             </div>
154             <div class="card-body">
155                 <div class="row">
156                     <div class="form-group col-md-6">
157                         <label>ID Petugas</label>
158                         <input type="text" name="id" class="form-control" />
159                     </div>
160                     <div class="form-group col-md-6">
161                         <label>Nama Petugas</label>
162                         <input type="text" name="nama" class="form-control" />
163                     </div>
164                     <div class="form-group col-md-6">
165                         <label>Jabatan</label>
166                         <input type="text" name="jabatan" class="form-control" />
167                     </div>
168                     <div class="form-group col-md-6">
169                         <label>No. Telpon</label>
170                         <input type="text" name="hp" class="form-control" />
171                     </div>
172                     <div class="form-group col-md-12">
173                         <label>Alamat</label>
174                         <textarea class="form-control" name="alamat" > </textarea>
175                     </div>
176                 </div>
177             </div>
178             <div class="row">
179                 <div class="col-12">
180                     <a href="{{ url_for('petugas') }}" class="btn btn-secondary">Cancel</a>
181                     <button type="submit" class="btn btn-success float-right toastrDefaultSuccess">Submit</button>
182                 </div>
183             </div>
184         </form>
185     </section>
186 </div>
```



```
<div>
    <div>
        <div>
            <div>
                <div>
                    <div>
                        <div>
                            <div>
                                <div>
                                    <div>
                                        <div>
                                            <div>
                                                <div>
                                                    <div>
                                                        <div>
                                                            <div>
                                                                <div>
                                                                    <div>
                                                                        <div>
                                                                            <div>
                                                                                <div>
                                                                                    <div>
                                                                                        <div>
                                                                                            <div>
                                                                                                <div>
                                                                                                    <div>
                                                                                                        <div>
                                                                                                            <div>
                                                                                                                <div>
                                                                                                                    <div>
                                                                                                                        <div>
                                                                                                                            <div>
                                                                                                                                <div>
                                                                                                                                    <div>
                                                                ................................................................
```

Source Code Python:



```
272 @application.route('/petugasAdd', methods=['GET', 'POST'])
273 def petugasAdd():
274     if request.method == 'GET':
275         return render_template('petugasAdd.html')
276     elif request.method == 'POST':
277         id = request.form['id']
278         nama = request.form['nama']
279         jabatan = request.form['jabatan']
280         hp = request.form['hp']
281         alamat = request.form['alamat']
282         postMethod("INSERT INTO `petugas` (`id_petugas`, `nama_petugas`, `jabatan_petugas`, `no_telp_petugas`, `alamat_petugas`) VALUES ('"+id+"', '"+nama+"', '"+jabatan+"', '"+hp+"', '"+alamat+"')");
283         return redirect(url_for('petugas'))
```

Hasilnya seperti berikut:

Tambah Petugas Baru

localhost:5000/petugasAdd

Perpustakaan TMJ

Shoffan Darul M.

Search

Dashboard

Peminjaman

Pengembalian

Tabel Buku

Tabel Rak

Tabel Anggota

Tabel Petugas

Form Tambah Petugas Baru

ID Petugas	Nama Petugas
5003	Prof. Ilwasap
Jabatan	No. Telp
Pengawas Lapangan	081234657890
Alamat	
Bandung, Indonesia	

Cancel

Submit

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Version 1.0

Petugas

localhost:5000/petugas

Perpustakaan TMJ

Shoffan Darul M.

Search

Dashboard

Peminjaman

Pengembalian

Tabel Buku

Tabel Rak

Tabel Anggota

Tabel Petugas

Data petugas Berhasil Ditambah

Tambah Petugas Baru

ID Petugas	Nama Petugas	Jabatan	No. Telp	Alamat	Edit/Delete
5001	Pak Ainota	Kepala Perpustakaan	081234567890	Depok, Jakarta	<button>Edit</button> <button>Delete</button>
5002	Bu Kubaru	Staff Perpustakaan	081234567890	Depok	<button>Edit</button> <button>Delete</button>
5003	Prof. Ilwasap	Pengawas Lapangan	081234657890	Bandung, Indonesia	<button>Edit</button> <button>Delete</button>

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Version 1.0

## 27. Membuat Form Update Petugas

Di dalam menu Petugas, ada tombol untuk Update Petugas. Update Petugas berfungsi untuk mengubah data Petugas dari tabel.

Source Code HTML:

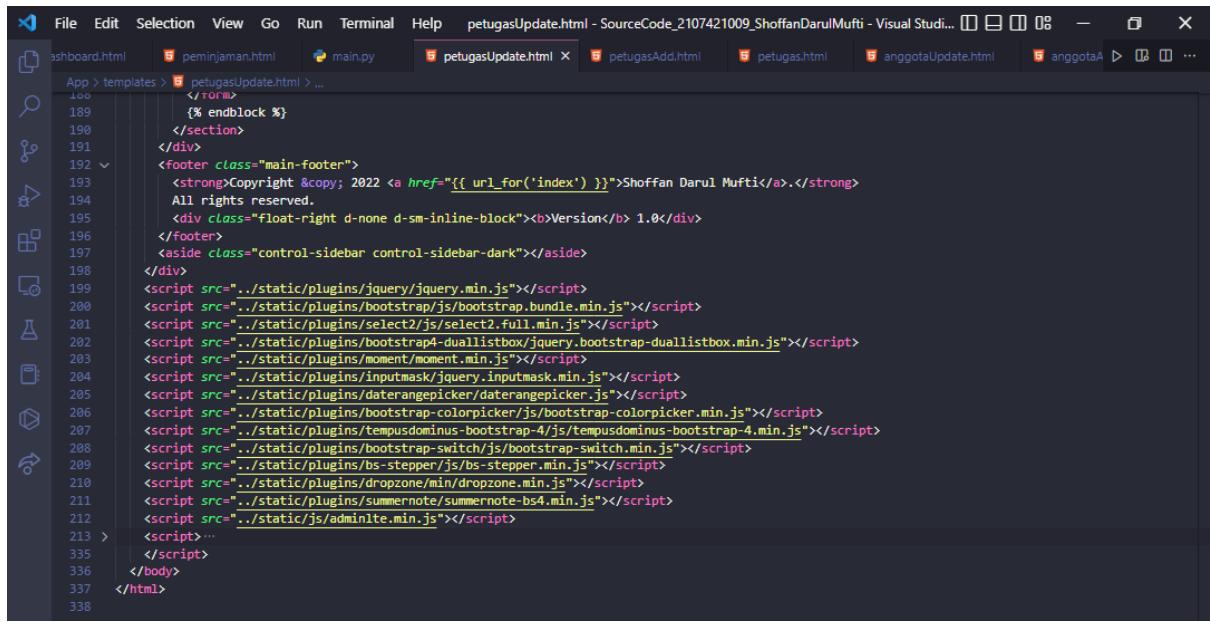


```
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="utf-8" />
        <meta name="viewport" content="width=device-width, initial-scale=1" />
        <title>Update Data Petugas</title>
        <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,700&display=fallback" />
        <link rel="stylesheet" href="../static/plugins/fontawesome-free/css/all.min.css" />
        <link rel="stylesheet" href="../static/plugins/daterangepicker/daterangepicker.css" />
        <link rel="stylesheet" href="../static/plugins/iCheck-bootstrap/iCheck-bootstrap.min.css" />
        <link rel="stylesheet" href="../static/plugins/bootstrap-colorpicker/css/bootstrap-colorpicker.min.css" />
        <link rel="stylesheet" href="../static/plugins/tempusdominus-bootstrap-4/css/tempusdominus-bootstrap-4.min.css" />
        <link rel="stylesheet" href="../static/plugins/select2/css/select2.min.css" />
        <link rel="stylesheet" href="../static/plugins/select2-bootstrap4-theme/select2-bootstrap4.min.css" />
        <link rel="stylesheet" href="../static/plugins/bootstrap4-duallistbox/bootstrap4-duallistbox.min.css" />
        <link rel="stylesheet" href="../static/plugins/bs-stepper/css/bs-stepper.min.css" />
        <link rel="stylesheet" href="../static/plugins/dropzone/min/dropzone.min.css" />
        <link rel="stylesheet" href="../static/plugins/summernote/summernote-bs4.min.css" />
        <link rel="stylesheet" href="../static/css/adminlte.min.css" />
    </head>
    <body class="hold-transition dark-mode sidebar-mini layout-fixed layout-navbar-fixed layout-footer-fixed">
        <div class="wrapper">
            <nav class="main-header navbar navbar-expand navbar-dark">
                <ul class="navbar-nav">
                    <li class="nav-item">
                        <a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
                    </li>
                </ul>
                <ul class="navbar-nav ml-auto">
                    <li class="nav-item">
                        <a class="nav-link" data-widget="navbar-search" href="#" role="button">
                            <i class="fas fa-search"></i>
                        </a>
                    <div class="navbar-search-block">
                        <form class="form-inline">
                            <div class="input-group input-group-sm">
                                <input class="form-control form-control-navbar" type="search" placeholder="Search" aria-label="Search" />
                            <div class="input-group-append">
                                <button class="btn btn-navbar" type="submit">
                                    <i class="fas fa-search"></i>
                                </button>
                                <button class="btn btn-navbar" type="button" data-widget="navbar-search">
                                    <i class="fas fa-times"></i>
                                </button>
                            </div>
                        </div>
                    </div>
                    </li>
                </ul>
                <li class="nav-item">
                    <a class="nav-link" data-widget="fullscreen" href="#" role="button">
                        <i class="fas fa-expand-arrows-alt"></i>
                    </a>
                </li>
                <li class="nav-item">
                    <a class="nav-link" data-widget="control-sidebar" data-slide="true" href="#" role="button">
                        <i class="fas fa-th-large"></i>
                    </a>
                </li>
                <li class="nav-item">
                    <a class="nav-link btn btn-sm btn-danger" href="{{ url_for('index') }}" role="button"><i class="fas fa-sign-out-alt mr-2"></i>Log Out</a>
                </li>
            </ul>
        </nav>
        <aside class="main-sidebar sidebar-dark-primary elevation-4">
            <a href="{{ url_for('dashboard') }}" class="brand-link">
                
                <span class="brand-text font-weight-light">Perpustakaan TMJ</span>
            </a>
            <div class="sidebar">
                <div class="user-panel mt-3 pb-3 mb-3 d-flex">
                    <div class="image">
                        
                    </div>
                    <div class="info">
                        <a href="#" class="d-block">Shoffan Darul M.</a>
                    </div>
                </div>
                <div class="form-inline">
                    <div class="input-group" data-widget="sidebar-search">
                        <input class="form-control form-control-sidebar" type="search" placeholder="Search" aria-label="Search" />
                    <div class="input-group-append">
                        <button class="btn btn-sidebar">
                            <i class="fas fa-search fa-fw"></i>
                        </button>
                    </div>
                </div>
            </div>
        </aside>
    </body>

```

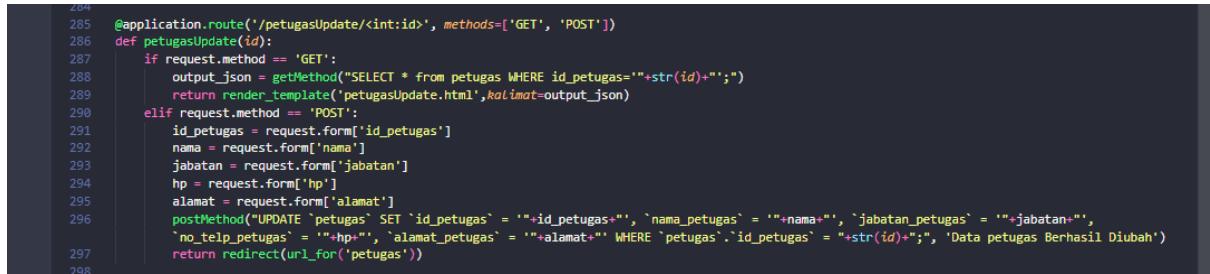
```
File Edit Selection View Go Run Terminal Help petugasUpdate.html - SourceCode_2107421009_ShoffanDarulMufti - Visual Studio... □ □ □ 0% - □ ×
ashboard.html peminjaman.html main.py petugasUpdate.html petugasAdd.html petugas.html anggotaUpdate.html anggotaA ...
App > templates > petugasUpdate.html ...
87
88    <nav class="mt-2">
89        <ul class="nav nav-pills nav-sidebar flex-column" data-widget="treeview" role="menu" data-accordion="false">
90            <li class="nav-item menu-open">
91                <a href="{% url_for('dashboard') }" class="nav-link">
92                    <i class="nav-icon fas fa-tachometer-alt"></i>
93                    <p>Dashboard</p>
94                </a>
95            </li>
96            <li class="nav-item">
97                <a href="{% url_for('peminjaman') }" class="nav-link">
98                    <i class="nav-icon fas fa-arrow-alt-circle-up"></i>
99                    <p>Peminjaman</p>
100                </a>
101            </li>
102            <li class="nav-item">
103                <a href="{% url_for('pengembalian') }" class="nav-link">
104                    <i class="nav-icon fas fa-arrow-alt-circle-down"></i>
105                    <p>Pengembalian</p>
106                </a>
107            </li>
108            <li class="nav-item">
109                <a href="{% url_for('buku') }" class="nav-link">
110                    <i class="nav-icon fas fa-book"></i>
111                    <p>Tabel Buku</p>
112                </a>
113            </li>
114            <li class="nav-item">
115                <a href="{% url_for('rak') }" class="nav-link">
116                    <i class="nav-icon fas fa-bookmark"></i>
117                    <p>Tabel Rak</p>
118                </a>
119            </li>
120            <li class="nav-item">
121                <a href="{% url_for('anggota') }" class="nav-link">
122                    <i class="nav-icon fas fa-user"></i>
123                    <p>Tabel Anggota</p>
124                </a>
125            </li>
126            <li class="nav-item">
127                <a href="{% url_for('petugas') }" class="nav-link active">
128                    <i class="nav-icon fas fa-user"></i>
129                    <p>Tabel Petugas</p>
130                </a>
131            </li>
132        </ul>
133    </nav>
134 </div>
135 </aside>
136 <div class="content-wrapper">
137     <section class="content-header">
138         <div class="container-fluid">
139             <div class="row mb-2"></div>
140         </div>
141     </section>
142     <section class="content">
143         {% block content %}>
144         <form method="POST">
145             <div class="card card-primary">
146                 <div class="card-header">
147                     <h3 class="card-title">General</h3>
148                     <div class="card-tools">
149                         <button type="button" class="btn btn-tool" data-card-widget="collapse" title="Collapse">
150                             <i class="fas fa-minus"></i>
151                         </button>
152                     </div>
153                 </div>
154                 <div class="card-body">
155                     <div class="row">
156                         {% for item in kalimat %}>
157                         <div class="form-group col-md-6">
158                             <label>ID Petugas</label>
159                             <input type="text" name="id_petugas" class="form-control" value="{{ item[0] }}"/>
160                         </div>
161                         <div class="form-group col-md-6">
162                             <label>Nama Petugas</label>
163                             <input type="text" name="nama" class="form-control" value="{{ item[1] }}"/>
164                         </div>
165                         <div class="form-group col-md-6">
166                             <label>Jabatan</label>
167                             <input type="text" name="jabatan" class="form-control" value="{{ item[2] }}"/>
168                         </div>
169                         <div class="form-group col-md-6">
170                             <label>No. Telepon</label>
171                             <input type="text" name="hp" class="form-control" value="{{ item[3] }}"/>
172                         </div>
173                         <div class="form-group col-md-12">
174                             <label>Alamat</label>
175                             <textarea class="form-control" name="alamat">{{ item[4] }}</textarea>
176                         </div>
177                         {% endfor %}
178                     </div>
179                 </div>
180             </div>
181             <div class="row">
182                 <div class="col-12">
183                     <a href="{% url_for('petugas') }" class="btn btn-secondary">Cancel</a>
184                     <button type="submit" class="btn btn-success float-right toastrDefaultSuccess">Submit</button>
185                 </div>
186             </div>
187         </form>
188     </section>

```



```
<div>
    <form>
        <% endblock %>
    </form>
</div>
<div class="float-right d-none d-sm-inline-block"><b>Version</b> 1.0</div>
</div>
<aside class="control-sidebar control-sidebar-dark"></aside>
</div>
<script src="../static/plugins/jquery/jquery.min.js"></script>
<script src="../static/plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
<script src="../static/plugins/select2/js/select2.full.min.js"></script>
<script src="../static/plugins/bootstrap4-duallistbox/jquery.bootstrap-duallistbox.min.js"></script>
<script src="../static/plugins/moment/moment.min.js"></script>
<script src="../static/plugins/inputmask/jquery.inputmask.min.js"></script>
<script src="../static/plugins/daterangepicker/daterangepicker.js"></script>
<script src="../static/plugins/bootstrap-colorpicker/js/bootstrap-colorpicker.min.js"></script>
<script src="../static/plugins/tempusdominus-bootstrap-4/js/tempusdominus-bootstrap-4.min.js"></script>
<script src="../static/plugins/bootstrap-switch/js/bootstrap-switch.min.js"></script>
<script src="../static/plugins/bs-stepper/js/bs-stepper.min.js"></script>
<script src="../static/plugins/dropzone/min/dropzone.min.js"></script>
<script src="../static/plugins/summernote/summernote-bs4.min.js"></script>
<script src="../static/js/adminlte.min.js"></script>
</body>
</html>
```

Source Code Python:



```
def petugasUpdate(id):
    if request.method == 'GET':
        output_json = getMethod("SELECT * from petugas WHERE id_petugas='"+str(id)+"';")
        return render_template('petugasUpdate.html',kalimat=output_json)
    elif request.method == 'POST':
        id_petugas = request.form['id_petugas']
        nama = request.form['nama']
        jabatan = request.form['jabatan']
        hp = request.form['hp']
        alamat = request.form['alamat']
        postMethod("UPDATE `petugas` SET `id_petugas` = '"+id_petugas+"', `nama_petugas` = '"+nama+"', `jabatan_petugas` = '"+jabatan+"', `no_telp_petugas` = '"+hp+"', `alamat_petugas` = '"+alamat+"' WHERE `petugas`.`id_petugas` = "+str(id)+";", 'Data petugas Berhasil Diubah')
        return redirect(url_for('petugas'))
```

Hasilnya seperti berikut:

Update Data Petugas

localhost:5000/petugasUpdate/5002

Perpustakaan TMJ

Shoffan Darul M.

Search

Dashboard

Peminjaman

Pengembalian

Tabel Buku

Tabel Rak

Tabel Anggota

Tabel Petugas

General

ID Petugas: 5002

Nama Petugas: Bu Kubaru

Jabatan: Staff Perpustakaan

No. Telp: -

Alamat: Jakarta Selatan, Indonesia

Cancel

Submit

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Version 1.0

Petugas

localhost:5000/petugas

Perpustakaan TMJ

Shoffan Darul M.

Search

Dashboard

Peminjaman

Pengembalian

Tabel Buku

Tabel Rak

Tabel Anggota

Tabel Petugas

Data petugas Berhasil Diubah

Tambah Petugas Baru

ID Petugas	Nama Petugas	Jabatan	No. Telp	Alamat	Edit/Delete
5001	Pak Ainota	Kepala Perpustakaan	081234567890	Depok, Jakarta	<button>Edit</button> <button>Delete</button>
5002	Bu Kubaru	Staff Perpustakaan	-	Jakarta Selatan, Indonesia	<button>Edit</button> <button>Delete</button>
5003	Prof. Ilwasap	Pengawas Lapangan	081234657890	Bandung, Indonesia	<button>Edit</button> <button>Delete</button>

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Version 1.0

## 28. Membuat Form Delete Petugas

Di dalam menu Petugas, ada tombol untuk Delete Petugas. Delete Petugas berfungsi untuk menghapus data Petugas dari tabel.

Source Code Python:

```
295     @application.route('/petugasDelete<int:id>', methods=['GET'])
296     def petugasDelete(id):
297         if request.method == 'GET':
298             postMethod("DELETE FROM `petugas` WHERE `petugas`.`id_petugas` = '"+str(id)+"';", 'Data petugas Berhasil Dihapus')
299             return redirect(url_for('petugas'))
```

Hasilnya seperti berikut:

The screenshot shows a web application interface for managing staff members ('Petugas'). On the left is a sidebar with various menu items like Dashboard, Peminjaman, Pengembalian, Tabel Buku, Tabel Rak, Tabel Anggota, and Tabel Petugas (which is currently selected). The main content area displays a table of staff members with columns: ID Petugas, Nama Petugas, Jabatan, No. Telpon, Alamat, and Edit/Delete buttons. A modal dialog box is overlaid on the page, centered over the row for staff member ID 5001. The dialog has a title 'localhost:5000' and the message 'Are you sure you want to delete?'. It contains two buttons: 'OK' and 'Cancel'.

This screenshot shows the same web application after a staff member has been deleted. The modal dialog from the previous screenshot is no longer present. The staff member with ID 5001 has been removed from the table. The table now contains three rows: one for staff member ID 5002 (Bu Kubaru) and one for staff member ID 5003 (Prof. Ilwasap).

--- Terima Kasih ---