CODE:

db/env.php

```php
1  <?php
2      //Database info
3
4      $server = "localhost:3308";
5      $user = "root";
6      $pass = "";
7
8      $db_name = "lab05_db";
9      $table_name = "books";
10
11     //Server url
12     $url = "http://localhost:8081/Lab05/";
13
14     $display_rows = 10;
15
16  ?>
```

db/generate-db.php

```php
1  <?php
2      include_once("env.php");
3
4      //create connection
5
6      $connection = new mysqli($server, $user, $pass);
7
8      //check connection
9      if ($connection->connect_error)
10     {
11         die("ERROR: Could not connect".$connection->connect_error);
12     }
13
14     //create new database
15     $sql = "CREATE DATABASE `$db_name`";
16
17     if ($connection->query($sql) === TRUE)
18     {
19         echo "Database created successfully";
20     }
21     else
22     {
23         echo "ERROR: Unable to execute $sql.".$connection->error;
24     }
25
26     //close connection
27     $connection->close();
28
29  ?>
```

db/create-table.php

```php
<?php
    include_once("connect-db.php");

    //create new table
    $sql = "CREATE TABLE `$table_name` (
        id INT(10) UNSIGNED AUTO_INCREMENT PRIMARY KEY,

        title VARCHAR(191) NOT NULL,

        author VARCHAR(191) NOT NULL,

        published_date DATE,

        last_modified TIMESTAMP DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,

        status ENUM('active', 'pending', 'delete')
    )";

    if ($connection->query($sql) === TRUE)
    {
        echo "Table '".$table_name."' created successfully";
    }
    else
    {
        echo "Error creating table: ".$connection->error;
    }

    //close connection
    $connection->close();

?>
```

db/connect-db.php

```php
<?php
    include_once("env.php");

    //create connection
    $connection = new mysqli($server, $user, $pass, $db_name);

    //check connection
    if ($connection->connect_error)
    {
        die("ERROR: Could not connect ".$connection->connect_error);
    }

?>
```

api/index.php

```php
<?php
    require_once('../db/connect-db.php');


    $page = (isset($_GET["page"])) ? $_GET["page"] : 1;

    $start_from = ($page-1)*$display_rows;



    //get all rows for selected page
    $sql = "SELECT * FROM $table_name ORDER BY id DESC LIMIT $start_from, $display_rows";

    $result = $connection->query($sql);

    while ($row = $result->fetch_assoc())
    {
        $json[] = $row;
    }

    $data['data'] = $json;

    //get total count of books
    $sql = "SELECT COUNT(*) AS  total FROM $table_name";

    $result = $connection->query($sql);

    $values = mysqli_fetch_assoc($result);

    $data['total'] = $values['total'];


    //return books
    echo json_encode($data);
?>
```

api/create.php

```php
<?php
    require_once('../db/connect-db.php');

    //add new record
    $sql = "INSERT INTO `$table_name` (`title`, `author`, `published_date`, `picture`)
                    VALUES('".$_POST['title']."', '".$_POST['author']."'
                    ,'".$_POST['published_date']."' , '".$_POST['picture']."')";

    $result = $connection->query($sql);

    // return VALUES
    $sql = "SELECT * FROM $table_name ORDER BY id DESC LIMIT 1";

    $result = $connection->query($sql);

    $data = $result->fetch_assoc();

    echo json_encode($data);
?>
```

api/update.php

```php
<?php
    require_once('../db/connect-db.php');

    //update record
    $sql = "UPDATE `$table_name` SET `title` = '".$_POST['title']."',
                                `author` = '".$_POST['author']."',
                                `published_date` = '".$_POST['published_date']."
                                ', `picture` = '".$_POST['picture']."
                                ' WHERE `id` = ".$_POST['id']." ";

    $result = $connection->query($sql);

    //return value
    $sql = "SELECT * FROM $table_name WHERE `id` = ' ".$_POST['id']." ' ";
    $result = $connection->query($sql);

    $data = $result->fetch_assoc();
    echo json_encode($data);

?>
```

api/delete.php

```php
<?php
    require_once('../db/connect-db.php');

    $id = $_POST["id"];

    //delete record

    $sql = "DELETE FROM $table_name WHERE id = ' ".$id." '";

    if ($connection->query($sql) === TRUE)
    {
        echo json_encode([$id]);
    }
    else
    {
        echo "Error deleting record ". $connection->error;
    }

    //close connection
    $connection->close();
?>
```

index.php

```php
<?php require_once('db/env.php'); ?>
<html lang="en">
    <style>
        tr {
            cursor: pointer;
        }
        tr:hover {
            background: lightgray;
            border: 3px solid green
        }
        img {
            object-fit: contain;
            width: 400px;
            height: auto;
        }
    </style>
```

```html
<head>
    <!-- Meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
    <!-- CSS -->
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
        integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T" crossorigin="anonymous">
    <link rel="stylesheet" href="https://code.jquery.com/ui/1.12.1/themes/base/jquery-ui.css">
    <!-- JS -->
    <script src="https://code.jquery.com/jquery-3.5.1.min.js"
        integrity="sha256-9/aliU8dGd2tb6OSsuzixeV4y/faTqgFtohetphbbj0=" crossorigin="anonymous"></script>
    <script src="https://code.jquery.com/ui/1.12.1/jquery-ui.js"></script>
    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"
        integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM" crossorigin="anonymous"></script>
    <script src="https://cdnjs.cloudflare.com/ajax/libs/twbs-pagination/1.4.2/jquery.twbsPagination.min.js"
        integrity="sha512-frFP3ZxLshB4CErXkPVEXnd5ingvYYtYhE5qllGdZmcOlRKNEPbufyupfdSTNmoF5ICaQNO6SenXzOZvoGkiIA=="
        crossorigin="anonymous"></script>
    <script src="https://cdnjs.cloudflare.com/ajax/libs/1000hz-bootstrap-validator/0.11.5/validator.min.js"></script>
    <script type="text/javascript" src="//cdnjs.cloudflare.com/ajax/libs/toastr.js/latest/js/toastr.min.js"></script>
    <link href="//cdnjs.cloudflare.com/ajax/libs/toastr.js/latest/css/toastr.min.css" rel="stylesheet">
    <!-- Custom JS -->
    <script type = "text/javascript">
        var url = "<?php echo $url; ?>";
        var display_rows = "<?php echo $display_rows; ?>";

        $(function()
        {
            $("#published_date").datepicker({dateFormat: 'yy-mm-dd'});
            $("#published_date_edit").datepicker({dateFormat: 'yy-mm-dd'});
        });
    </script>
    <!-- API JS files -->
    <script src="js/index.js"></script>
    <title>Trial Project for Worker Bee TV - Submitted by Jay Acab chiefofstack.com </title>
    <!-- Style -->
</head>
```

```html
<body>
    <div class="container ml-4">
        <!-- Add new book section -->
        <div class="row mt-4">
            <div class="col-lg-10">
                <div class="float-left">
                    <h2>Books</h2>
                </div>

                <div class="float-right">
                    <button type="button" class="btn btn-success" data-toggle="modal" data-target="#create-book">
                        Add New Book
                    </button>
                </div>
            </div>
        </div>
        <div class="row mt-4">
            <div class="col-sm-10">
                <!-- table of content -->
                <table class="table table-bordered table-striped text muted text-center mt-3" id="table_content">
                    <thead>
                        <tr>
                            <th>Date Published</th>
                            <th>Author name</th>
                            <th>Book Title</th>
                            <th>Action</th>
                        </tr>
                    </thead>
                    <tbody>
                    </tbody>
                </table>

                <ul id="pagination" class="pagination-sm"></ul>
            </div>
            <div class="col-sm-2 mt-4">
                <div class="picture_container">
                    <img src="img/default.jpg">
                </div>
            </div>
        </div>
    </div>

    <!-- View book modal -->
    <div id="view-book" class="modal" tabindex="-1" role="dialog" aria-labelledby="modalLabel">
        <div class="modal-dialog" role="document">
            <div class="modal-content">
                <!-- header -->
                <div class="modal-header">
                    <div>
                        <h4 class="modal-title float-left" id="modalLabel">Book Information</h4>
                    </div>

                    <div>
                        <button type="button" class="close float-right" data-dismiss="modal" aria-label="Close">
                            <span aria-hidden="true">x</span>
                        </button>
                    </div>
                </div>
                <!-- body -->
                <div class="modal-body">
                    <form id="view-book-form" data-toggle="validator" action="api/create.php" method="POST">
                        <div class="form-group">
                            <label class="control-label" for="title">Title:</label>
                            <p id="title_view" name="title" class="font-weight-bold"></p>
                        </div>

                        <div class="form-group">
                            <label class="control-label" for="published_date">Date Published:</label>
                            <p id="published_date_view" name="published_date" class="font-weight-bold"></p>
                        </div>

                        <div class="form-group">
                            <label class="control-label" for="id">ID:</label>
                            <p id="id_view" name="id" class="font-weight-bold"></p>
                        </div>
                    </form>
                </div>
            </div>
        </div>
    </div>
```

```html
130
131             <!-- Create book modal -->
132             <div id="create-book" class="modal" tabindex="-1" role="dialog" aria-labelledby="modalLabel">
133                 <div class="modal-dialog" role="document">
134                     <div class="modal-content">
135                         <!-- header -->
136                         <div class="modal-header">
137                             <div>
138                                 <h4 class="modal-title float-left" id="modalLabel">Add a book</h4>
139                             </div>
140
141                             <div>
142                                 <button type="button" class="close float-right" data-dismiss="modal" aria-label="Close">
143                                     <span aria-hidden="true">x</span>
144                                 </button>
145                             </div>
146                         </div>
147                         <!-- body -->
148                         <div class="modal-body">
149                             <form id="create-book-form" data-toggle="validator" action="api/create.php" method="POST">
150                                 <div class="form-group">
151                                     <label class="control-label" for="title">Title:</label>
152                                     <input type="text" id="title" name="title" class="form-control"
153                                         data-error="Please enter book title." required >
154                                     <div class="help-block with-errors text-danger"></div>
155                                 </div>
156
157                                 <div class="form-group">
158                                     <label class="control-label" for="author">Author:</label>
159                                     <input type="text" id="author" name="author" class="form-control"
160                                         data-error="Please enter the name of the author." required>
161                                     <div class="help-block with-errors text-danger"></div>
162                                 </div>
163
164                                 <div class="form-group">
165                                     <label class="control-label" for="published_date">Date Published:</label>
166                                     <input type="text" id="published_date" name="published_date" class="form-control"
167                                         data-error="Please enter the date when the book was published." required autocomplete="off">
168                                     <div class="help-block with-errors text-danger"></div>
169                                 </div>
170
171                                 <div class="form-group">
172                                     <label class="control-label" for="picture">Picture:</label>
173                                     <input type="file" id="picture" name="picture"  class="form-control"/>
174                                 </div>
175

175
176                                 <div class="form-group mt-4">
177                                     <button type="submit" class="btn submit-book btn-success">Submit</button>
178                                 </div>
179                             </form>
180                         </div>
181                     </div>
182                 </div>
183             </div>
184

184
185             <!-- Edit Book Modal -->
186             <div id="edit-book" class="modal" tabindex="-1" role="dialog" aria-labelledby="modalLabel">
187                 <div class="modal-dialog" role="document">
188                     <div class="modal-content">
189                         <!-- header -->
190                         <div class="modal-header">
191                             <div>
192                                 <h4 class="modal-title float-left" id="modalLabel">Edit Book</h4>
193                             </div>
194
195                             <div>
196                                 <button type="button" class="close float-right" data-dismiss="modal" aria-label="Close">
197                                     <span aria-hidden="true">x</span>
198                                 </button>
199                             </div>
200                         </div>
201
```

```
201        <!-- body -->
202        <div class="modal-body">
203          <form id="edit-book-form" data-toggle="validator" action="api/update.php" method="put">
204            <input type="hidden" id="id" name="id" class="edit-id">
205            <div class="form-group">
206              <label class="control-label" for="title_edit">Title:</label>
207              <input type="text" id="title_edit" name="title" class="form-control"
208                data-error="Please enter book title." required >
209              <div class="help-block with-errors text-danger"></div>
210            </div>
211
212
213            <div class="form-group">
214              <label class="control-label" for="author_edit">Author:</label>
215              <input type="text" id="author_edit" name="author" class="form-control"
216                data-error="Please enter the name of the author." required>
217              <div class="help-block with-errors text-danger"></div>
218            </div>
219
220            <div class="form-group">
221              <label  class="control-label" for="published_date_edit">Date Published:</label>
222              <input type="text" id="published_date_edit" name="published_date" class="form-control"
223                data-error="PLease enter the date when the bool was published." required autocomplete="off">
224              <div class="help-block with-errors text-danger"></div>
225            </div>
226
227            <div class="form-group">
228              <label class="control-label" for="picture_edit">Picture:</label>
229              <input type="text" id="picture_name_edit" class="form-control" disabled hidden/>
230              <input type="file" id="picture_edit" name="picture" class="form-control"/>
231            </div>
232
233            <div class="form-group mt-4">
234              <button type="submit" class="btn submit-book-edit btn-success">Submit</button>
235            </div>
236          </form>
237        </div>
238      </div>
239    </div>
240  </div>
241  </body>
242 </html>
```

index.js

```
1  $(document).ready(function() {
2      /*Initialize the index*/
3      var page = 1;
4      var current_page = 1;
5      var total_page = 0;
6      var display = "list";
7
8      /* Display Initial List of Books */
9      if (display == "list")
10         displayBookList();
11
12     /* View Books */
13     $("body").on("click", ".view-book", function() {
14         var id = $(this).parent("td").data('id');
15         var title = $(this).parent("td").prev("td").text();
16         var author = $(this).parent("td").prev("td").prev("td").text();
17         var published_date = $(this).parent("td").prev("td").prev("td").prev("td").text();
18         display = "details";
19
20         $("#id_view").text(id);
21         $("#title_view").text(title);
22         $("#author_view").text(author);
23         $("#published_date_view").text(published_date);
24     });
25
```

```
26      /* Create new book */
27      $('#create-book-form').on('submit', function(e)
28      {
29          e.preventDefault();
30          var form_action = $("#create-book-form").attr("action");
31          var title = $("#title").val();
32          var author = $("#author").val();
33          var published_date = $("#published_date").val();
34          var picture_path = $("#picture").val();
35          var picture_name = picture_path != '' ? picture_path.split('\\').pop().split('/').pop() : "default.jpg";
36          display = "create";
37
38          if (title != '' && author != '' && published_date != '')
39          {
40              $.ajax({
41                  dataType: 'json',
42                  type: 'POST',
43                  url: url + form_action,
44                  data: {
45                      title: title,
46                      author: author,
47                      published_date: published_date,
48                      picture: picture_name
49                  }
50              }).done(function(data){
51                  // Reset form
52                  $("#title").val('');
53                  $("#author").val('');
54                  $("#published_date").val('');
55                  $("#picture").val('');
56
57                  // display new item on List
58                  displayPageEntries();
59
60                  // hide modal
61                  $("#create-book").modal('hide');
62                  toastr.success('Item Created Successfully.', 'Success Alert', {timeOut: 5000});
63              });
64          }
65          else
66          {
67              alert('All fields are required. Please make sure you fill out all fields correctly.')
68          }
69      });
70

70
71      /* Edit book */
72      $("body").on("click", ".edit-book", function()
73      {
74          var id = $(this).parent("td").data('id');
75          var title = $(this).parent("td").prev("td").text();
76          var author = $(this).parent("td").prev("td").prev("td").text();
77          var published_date = $(this).parent("td").prev("td").prev("td").prev("td").text();
78          var picture_name = $(this).parent("td").parent("tr").data('image');
79          display = "edit";
80
81          $("#title_edit").val(title);
82          $("#author_edit").val(author);
83          $("#published_date_edit").val(published_date);
84          $("#picture_name_edit").val(picture_name);
85          $("#edit-book-form").find(".edit-id").val(id);
86      });
```

```
 88        /* Update book */
 89        $('#edit-book-form').on('submit', function(e)
 90        {
 91            e.preventDefault();
 92
 93            var form_action = $("#edit-book-form").attr("action");
 94            var title = $("#title_edit").val();
 95            var author = $("#author_edit").val();
 96            var published_date = $("#published_date_edit").val();
 97            var picture_path = $("#picture_edit").val();
 98            var picture_name = picture_path != '' ? picture_path.split('\\').pop().split('/').pop() : $("#picture_name_edit").val();
 99            var id = $("#edit-book-form").find(".edit-id").val();
100
101            if (title != '' && author != '' && published_date != '')
102            {
103                $.ajax({
104                    dataType: 'json',
105                    type: 'POST',
106                    url: url + form_action,
107                    data: {
108                        id: id,
109                        title: title,
110                        author: author,
111                        published_date: published_date,
112                        picture: picture_name
113                    }
114                }).done(function(data){
115                    // reset Form
116                    $("#title_edit").val('');
117                    $("#author_edit").val('');
118                    $("#published_date_edit").val('');
119                    $("#picture_name_edit").val('');
120                    $("#picture_edit").val('');
121                    // display new item on the List
122                    displayPageEntries();
123
124                    //hide modal
125                    $("#edit-book").modal('hide');
126                    toastr.success('Item Updated Successfully.', 'Success Alert', {timeOut: 5000});
127                });
128            }
129            else
130            {
131                alert('All fields are required. Please make sure you fill out all fields correctly.')
132            }
133        });


134
135        /* Delete book */
136        $("body").on("click", ".delete-book", function()
137        {
138            var id = $(this).parent("td").data('id');
139            $.ajax({
140                dataType: 'json',
141                type: 'POST',
142                url: url + 'api/delete.php',
143                data: {id:id}
144            }).done(function(data){
145                displayPageEntries();
146                toastr.success('Item Deleted Successfully.', 'Success Alert', {timeOut: 5000});
147            });
148        });
149
```
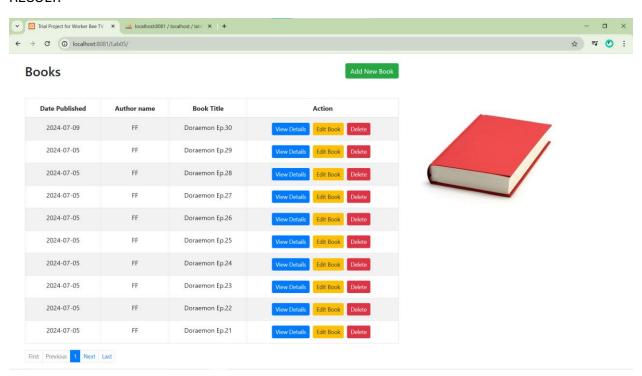
```javascript
        /* Display initial list of all books with pagination */
        function displayBookList()
        {
            $.ajax({
                dataType: 'json',
                url: url+'api/index.php',
                data: {page:page}
            }).done(function(data) {
                total_page = Math.ceil(data.total/display_rows);
                current_page = page;
                refreshList(data.data);

                $('#pagination').twbsPagination({
                    totalPages: total_page,
                    visiblePages: current_page,
                    onPageClick: function(event, pageL) {
                        page = pageL;
                        displayPageEntries();
                    }
                });
            });
        }


        /* Display books for current page */
        function displayPageEntries()
        {
            $.ajax({
                dataType: 'json',
                url: url+'api/index.php',
                data: {page:page}
            }).done(function(data) {
                refreshList(data.data);
            });
        }

        /* Refresh table list */
        function refreshList(data)
        {
            var rows = '';
            $.each(data, function(key, value) {
                rows = rows + '<tr data-image="' + value.picture +'">';
                rows = rows + '<td>'+value.published_date+'</td>';
                rows = rows + '<td>'+value.author+'</td>';
                rows = rows + '<td>'+value.title+'</td>';
                rows = rows + '<td data-id="'+value.id+'">';
                rows = rows + '<button data-toggle="modal" data-target="#view-book" class="btn btn-primary btn-sm view-book mr-2">View Details</button>';
                rows = rows + '<button data-toggle="modal" data-target="#edit-book" class="btn btn-warning btn-sm edit-book mr-2">Edit Book</button>';
                rows = rows + '<button class="btn btn-danger btn-sm delete-book mr-2">Delete</button>';
                rows = rows + '</td>';
                rows = rows + '</tr>';
            });
            $("tbody").html(rows);
            $('.picture_container').html('<img src="img/default.jpg">');
        }

        /* Display picture of books */
        $('#table_content tbody').on('click', 'tr', function() {

            var picture_name = $(this).attr('data-image');
            var picture_path = 'img/' + picture_name;
            $('.picture_container').html('<img src="'+picture_path+'">');
        });

});
```

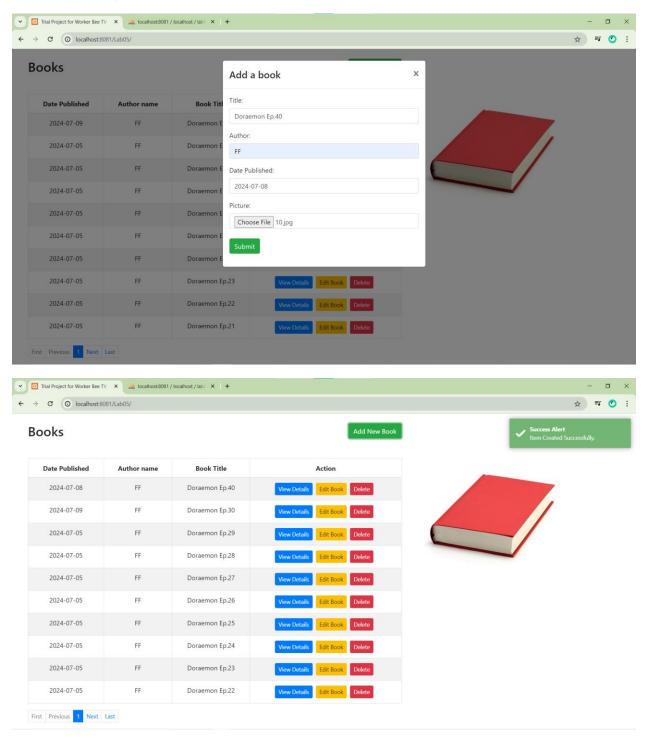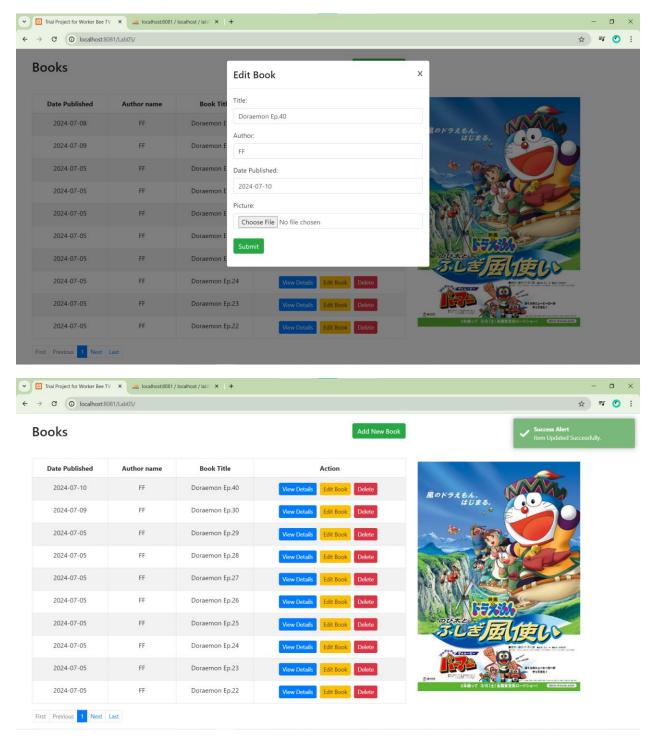Folder img – gồm hình ảnh đại diện của các cuốn sách:



RESULT:



Mặc định của trang web và khung hiển thị hình ảnh cũng được cài hình mặc định.
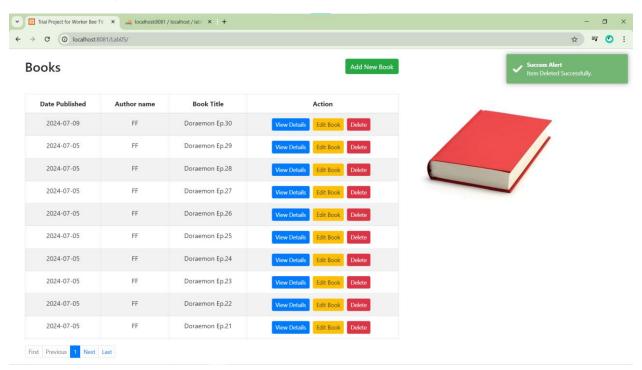
Tạo dữ liệu mới:





Đối với cuốn sách không chọn hình ảnh thì được cài bằng hình ảnh mặc định.
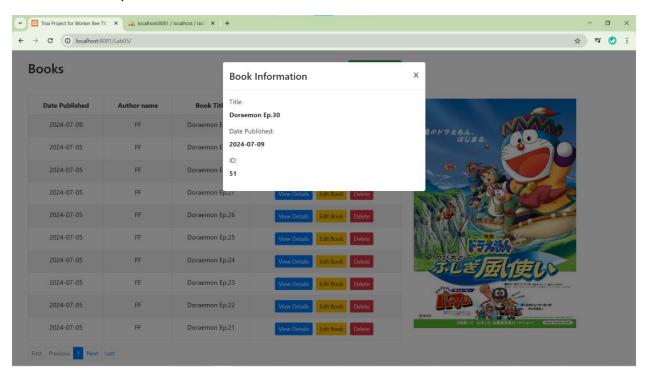
Chỉnh sửa dữ liệu





Đối với chỉnh sửa thông tin thì vẫn giữ được các thuộc tính không chỉnh sửa kể cả hình ảnh.

Xóa dữ liệu:



Xem dữ liệu chi tiết :

Hiển thị hình ảnh đại diện theo từng cuốn sách được chọn: