# ITPC 115 - Assignment 3: Markdown Documentation

## Project Title

Library-TPS Exam

**Description / Overview**

The Library TPS Exam is a web-based **“Library Management System”** that allows students to create and manage their personal details and library information online. The system provides features for CRUD operations (Create, Read, Update, & Delete) on user accounts, books, and authors. It helps organize library records efficiently while promoting a user-friendly interface for data handling.

## Objectives

* To design and develop a functional library management system using web technologies.
* To allow students to add, edit, and remove their own records easily.
* To enable librarians or administrators to manage books and authors efficiently.
* To practice CRUD implementation as part of the midterm examination.
* To integrate and learn Git and GitHub for version control and collaboration.

## Features / Functionality

* Student Management – Students can add, edit, delete, and view their personal details.
* Book Management – The system allows users to manage book information, including title, category, and author.
* Author Management – Each book can have one or more authors that can be created, updated, or removed.
* Search Functionality – Users can quickly find specific records.
* User-friendly UI—The interface was created with simplicity but modern.
* Version Control Integration—The project version is maintained using Git and GitHub.

## Installation Instructions

**1. Clone the Repository:**

git clone <https://github.com/Jamieson8/Gurtiza-Library-tps-Exam/tree/main/Git1/myAppExam>

**2. Navigate to the Project Folder:**

cd Gurtiza-Library-tps-Exam

**3. Install Laravel:**

php composer-setup php

**4. Import Database: Import the file into local MySQL database.**

**5. Run the Project: Start Apache and MySQL servers.**

**Usage**

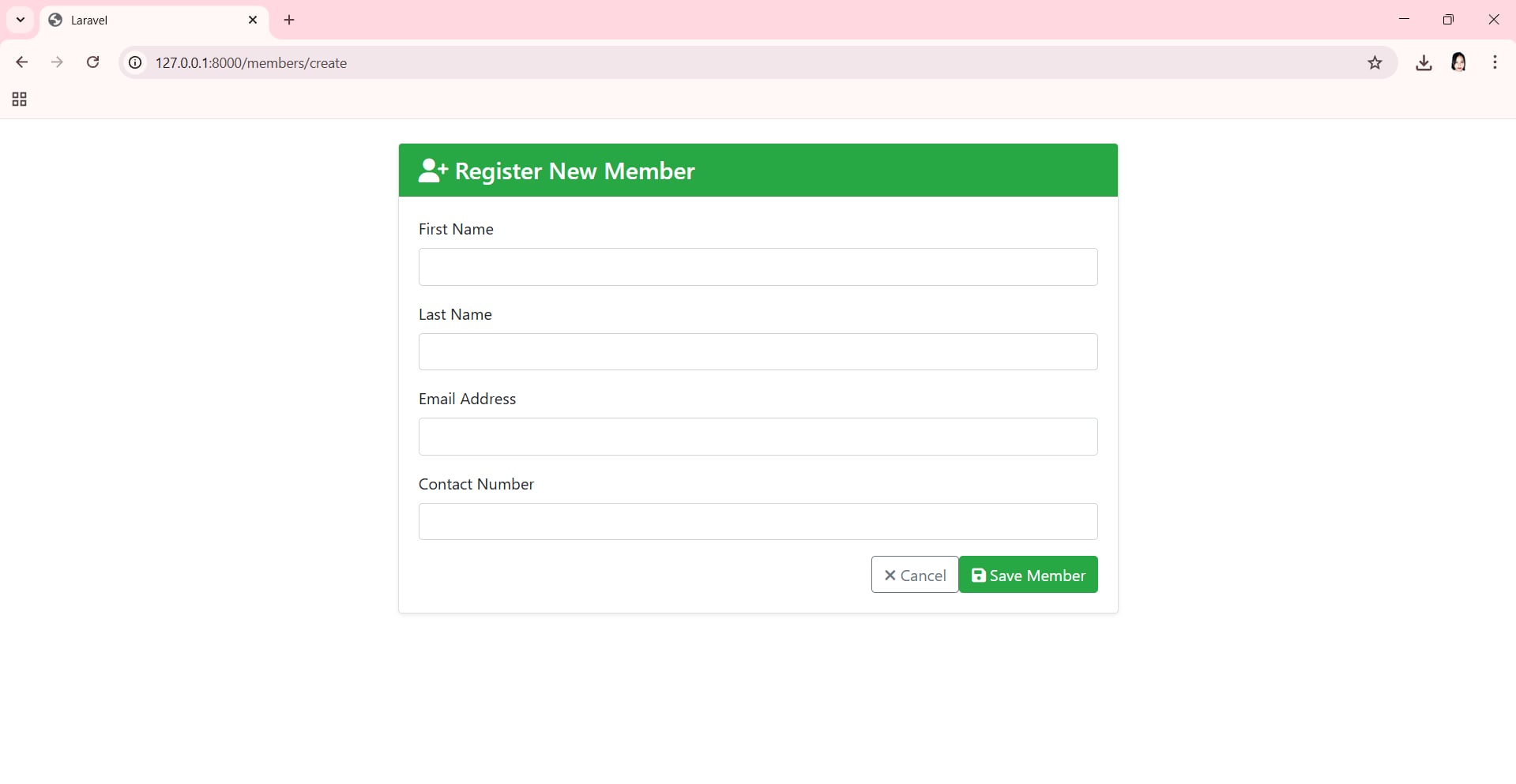
* Log in as a student or admin.
* Add your personal details using the Student Management section.
* Navigate to Books to add or update titles.
* Add or assign authors for each book.
* Save and manage data using the built-in CRUD operations.
* Open your terminal and use the Laravel command:

cd library-tps

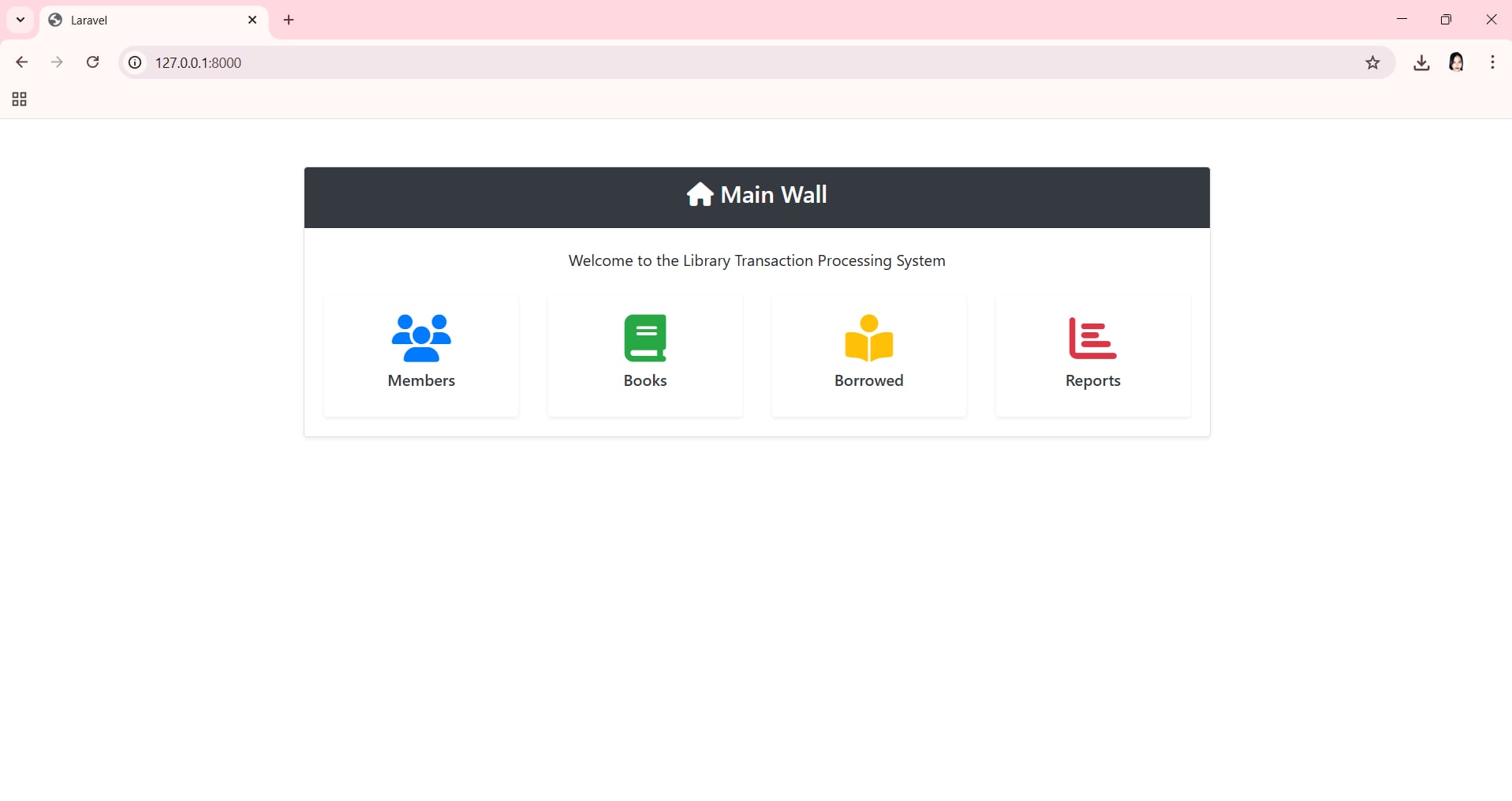
php artisan serve

* Then open http://127.0.0.1:8000

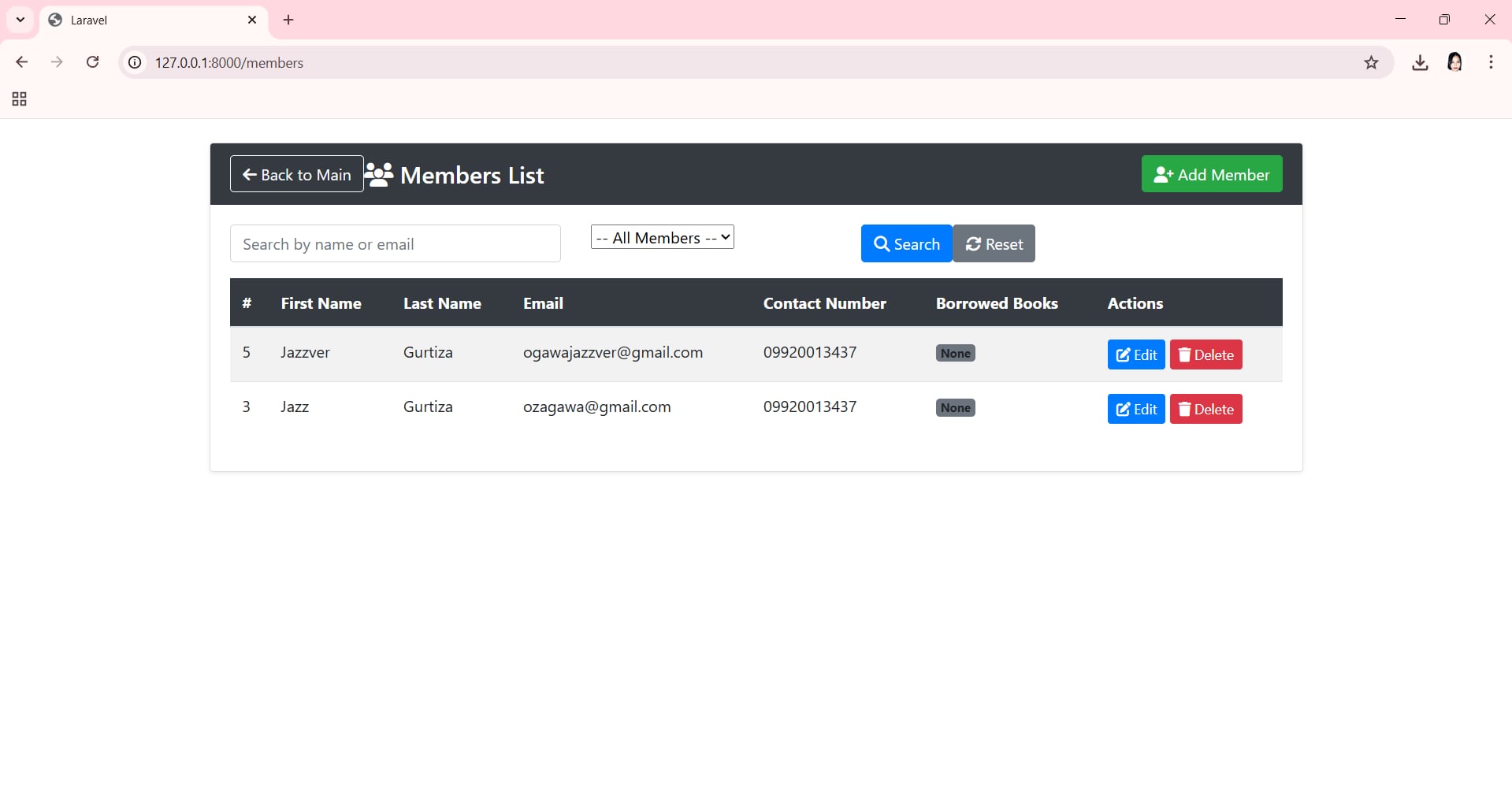
## Screenshots or Code Snippets

**Screenshot: **

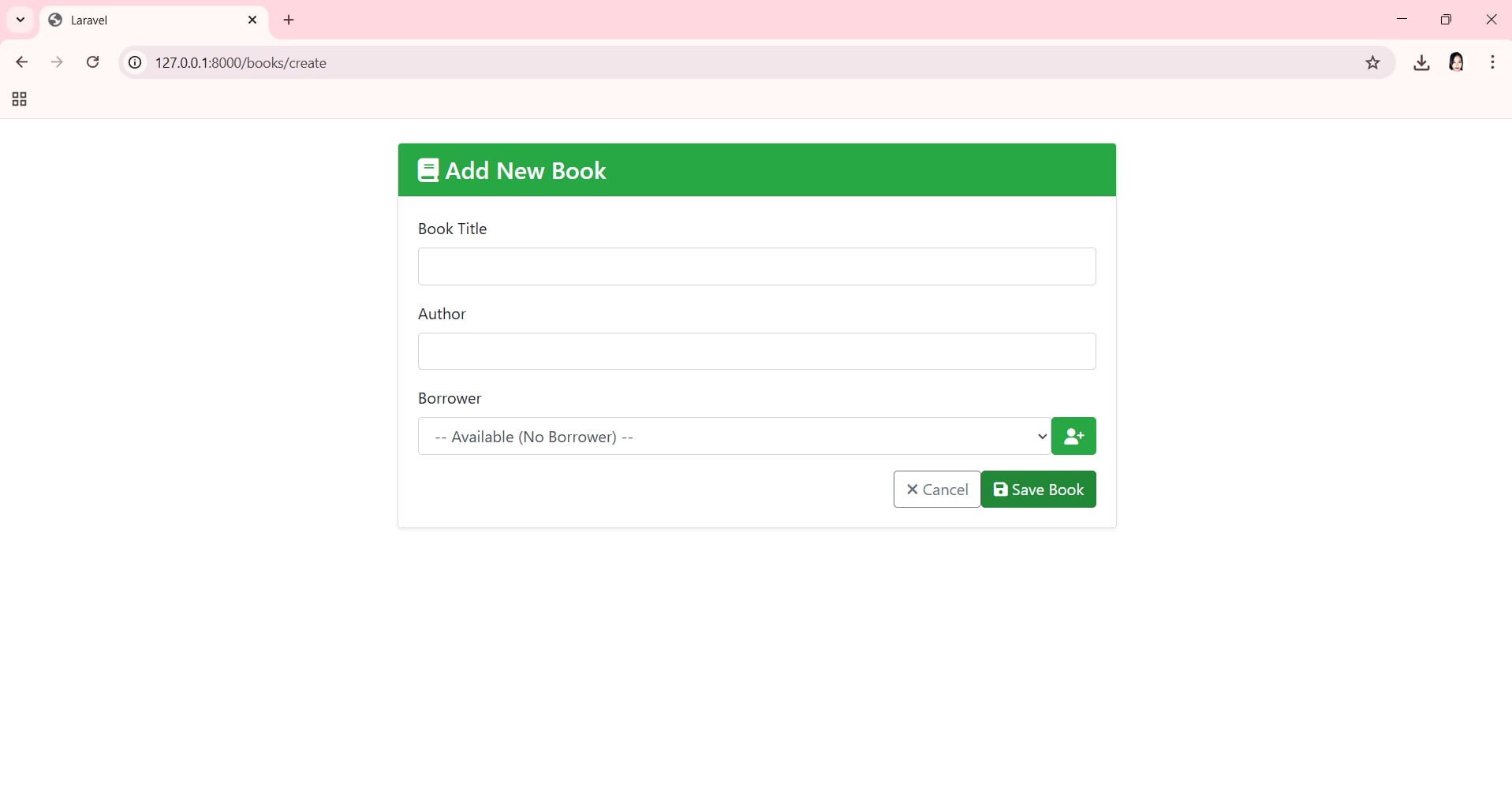
**User Registration**

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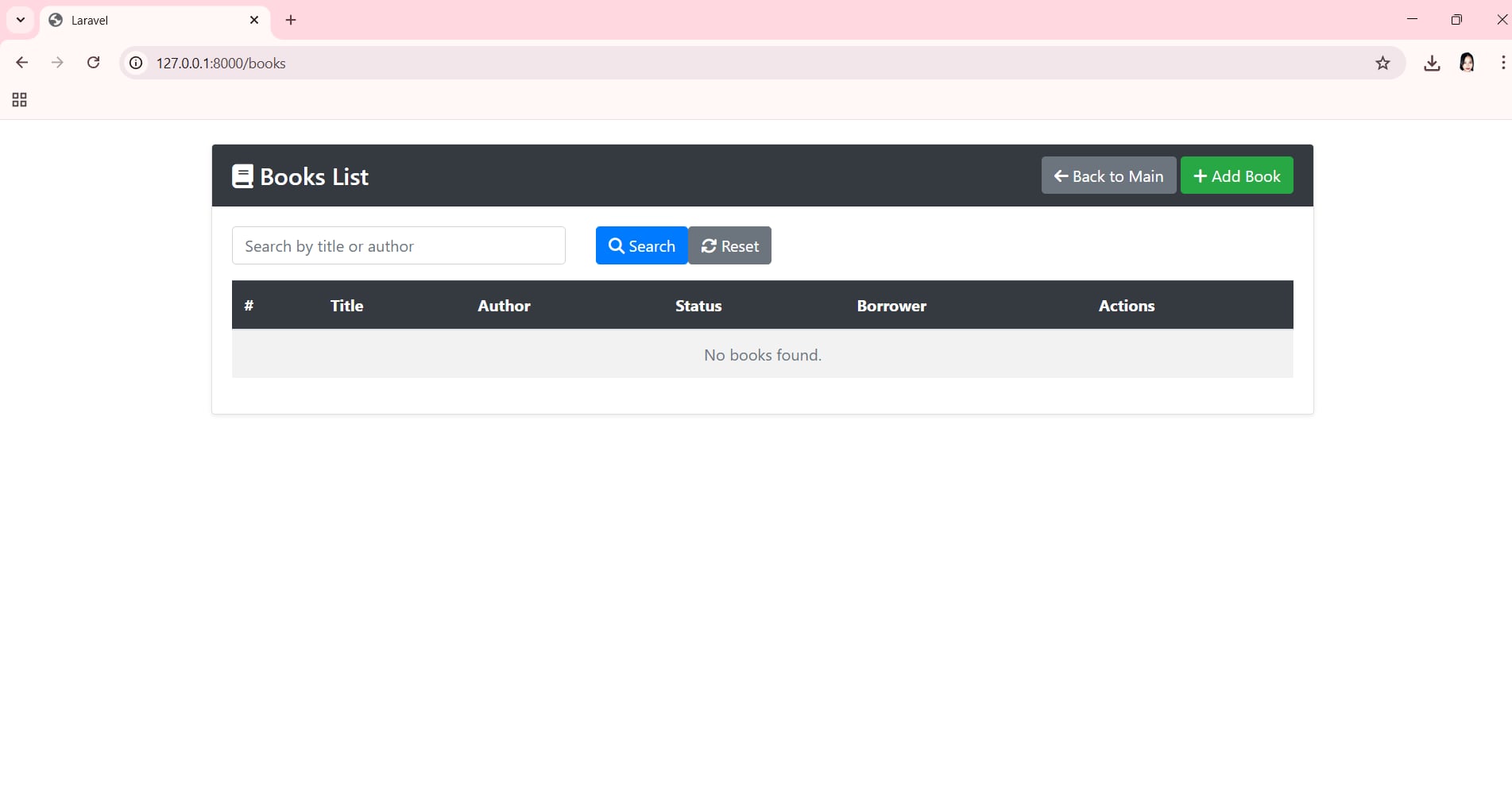
**Main Page**

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**Members Lists Page**

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**Books Registration Page**

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**Books Lists Page**

**Code Block:**

* Sample PHP code for student adding his/her student information

**<?php**

**namespace App\Models;**

**use Illuminate\Database\Eloquent\Factories\HasFactory;**

**use Illuminate\Database\Eloquent\Model;**

**class Student extends Model**

**{**

**use HasFactory;**

**protected $fillable = ['studentNumber', 'lname', 'fname', 'mi', 'email', 'contactNumber', 'section\_id'];**

**public function section():**

**{**

**return $this->belongsTo(Section::class);**

**}**

}

## Contributors

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## License

Not applicable