**-----Class AddBookView-----**

/\*\*\* Submit a POST Request with book info to controller\* @param Book fields of object Book that users enter  
\* @throws IllegalArgumentException if the parameter is of wrong type  
\*/  
public void postBookInfo(Book $book)  
throws IllegalArgumentException {

send book info to controller via POST request

}

/\*\*  
\* Notifies success/fail to user  
\* @param message a string representation of the message to be notified to the user.  
\*/  
public void notifyUser(String message)  
throws IOException{

notify message to user;

}

/\*\*  
\* Render Add new book view  
\*/  
public void renderView(){

render Add new book html

}

**-----Class BookController-----**

**/\*\***

\* Show the form for creating a new resource.

\*

\* @return \Illuminate\Http\Response

\*/

public function create()

{

return view('book.create');

}

/\*\*

\* Store a newly created resource in storage.

\*

\* @param \Illuminate\Http\Request $request

\* @return \Illuminate\Http\Response

\*/

public function store(Request $request)

{

// validate the data

$this->validate($request, array(

'title' => 'required|unique:books|max:255',

'publisher' => 'required|max:255',

'authors' => 'required|max:255',

'category' => 'in:textbook,history,dictionary,poetry,biography',

'isbn' => 'required|unique:books|max:255',

));

$bookCategory = ucfirst($request->category);

// store in the database

$book = new Book();

$bookNumber = $book->generateBookNumber($bookCategory);

$book->createNewBook($bookNumber, $request->title, $request->publisher, $request->authors, $bookCategory, $request->isbn);

Session::flash('success', 'The book was successfully save!');

return redirect()->route('book.show', $book->getAttribute('id'));

}

**-----Class Book-----**

**/\*\***

\* Generate book number from book category

\* @param string $category: book category

\* @return a string represent book number

\*/

public function generateBookNumber(string $category)

{

$categoryBookCount = $this->where('category', $category)->count();

$shortCategory = strtoupper(substr($category, 0, 2));

return $shortCategory . str\_pad($categoryBookCount , 4, "0", STR\_PAD\_LEFT );

}

/\*\*

\* Insert a new book into the database

\* @param Book fields of book object that user enters

\*/

public function createNewBook(string $bookNumber, string $title, string $publisher, string $authors, string $bookCategory, string $isbn){

$this->setAttribute('book\_number', $bookNumber)

->setAttribute('title', $title)

->setAttribute('publisher', $publisher)

->setAttribute('authors', $authors)

->setAttribute('category', $bookCategory)

->setAttribute('isbn', $isbn)

->setAttribute('number\_of\_copies', 0);

$this->save();

}