WWW programming

Framework: Laravel

Database used: mysql

Development environment: Homestead

The application is a simple book store.

Functionality from the users point of view:

Admin

- Can promote other users to admins and remove own role as admin

- Can restrict any user logging in the application (cannot delete users)

- Can add books. Can add and delete book instances.

Admin / Basic user (logged in user)

- Can search books and add book instances to cart and "buy" them

- Can update his own information (name and email)

- Can review his own purchases

Unregistered user

- Can only search books

CRUD: Application have all these functionalities

MVC: Laravel application's structure follows MVC

- Can restrict his own access to application (some admin can then cancel this)

Application is safe:
CSRF : Application has forms that takes care of this automatically (laravelcollective/html)
Application has also forms that are basic HTML forms. {{ csrf-field() }} is added to these.
SQL-injections: Laravel uses PDO so SQL-injections are handled automatically
XSS: eg. htmlspecialchars(\$request->input('name'), ENT_QUOTES, "utf-8");
Validation:
eg.
\$this->validate(\$request, [
'name' => 'required string max:255',
'email' => 'required string email max:255',
1);
HTML-verbs (GET, POST and PUT) are are used correctly
Status codes: Application generates status code 401 unauthorized if no admin tries to open admin panel
Template engine: Blade
Running the application
 check Laravel .env for database connection information php artisan migrate php artisan db:seed
Admin:
email: a@a.a
password: admin