

## BINUS University

<b>Academic Career:</b> <i>Undergraduate / <del>Master</del> / <del>Doctoral</del> *)</i>	<b>Class Program:</b> <i><del>International</del> / <del>Regular</del> / <del>Smart Program</del> / <del>Global-Class</del> / <del>BINUS Online Learning</del> *)</i>
<input checked="" type="checkbox"/> Mid Exam <input type="checkbox"/> Compact Term Exam <input type="checkbox"/> Final Exam <input type="checkbox"/> Others Exam : _____	<b>Term : Odd / <del>Even</del> / <del>Compact</del> *)</b> <b>Period (Only for BOL) : 1 / 2 *)</b>
<input checked="" type="checkbox"/> Kemanggis <input type="checkbox"/> Senayan <input type="checkbox"/> Semarang <input checked="" type="checkbox"/> Alam Sutera <input type="checkbox"/> Bandung <input checked="" type="checkbox"/> Bekasi <input type="checkbox"/> Malang	<b>Academic Year :</b>  <b>2022 / 2023</b>
Exam Type* : <del>Onsite</del> / Online	Faculty / Dept. : School of Computer Science
Day / Date** : Monday / 28 Nov 2022	Code - Course : COMP6681001 – Web Programming
Time** : 17:00	Code - Lecturer : Team Teaching
Exam Specification*** : <input type="checkbox"/> Open Book <input type="checkbox"/> Open Notes <input type="checkbox"/> Close Book <input type="checkbox"/> Submit Project <input type="checkbox"/> Open E-Book <input type="checkbox"/> Oral Test	BULC (Only for BOL) : - Class : All Classes
Equipment*** : <input type="checkbox"/> Exam Booklet <input type="checkbox"/> Laptop <input type="checkbox"/> Drawing Paper – A3 <input type="checkbox"/> Calculator <input type="checkbox"/> Tablet <input type="checkbox"/> Drawing Paper – A2 <input type="checkbox"/> Dictionary <input type="checkbox"/> Smartphone <input type="checkbox"/> Notes	Student ID *** : _____ Name *** : _____ Signature *** : _____
*) Strikethrough the unnecessary items      **) For Online Exam, this is the due date      ***) Only for Onsite Exam	
<p><b><i>Please insert the test paper into the exam booklet and submit both papers after the test.</i></b></p> <p><b><i>The penalty for CHEATING is DROP OUT!</i></b></p>	

### Learning Outcomes:

**LO 1 :** Describe the concept of web programming

**LO 2 :** Design web-based applications with structured approach

**LO 3 :** Identify a proper web programming technic to build web based application

### Case (100%)

#### Giant Book Supplier Web Application

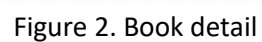
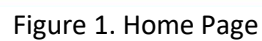
You are requested to create a web application for a company Giant Book Supplier that can display information about books and its publisher that have business relation with the company. The apps flows as follow :

#### 1. Home Page

Home page (index file) act as a landing page for visitor. It will display book stock data that consist of book image, book title, book author. The 'Detail' button will display book detail such as book image, book title, book author and book synopsis.

Verified by,

Reinert Yosua Rumagit, S.Kom., M.T.I. (D6191) and sent to Program on Oct 31, 2022



Visitors can access a book based on its category by clicking menu navigation on page header. A book might appear in a few categories because a book can be categorized more than one. For example, a book can be categorized as comedy and romance.

*Reinert Yosua Rumagit, S.Kom., M.T.I. (D6191) and sent to Program on Oct 31, 2022*

# Giant Book Supplier

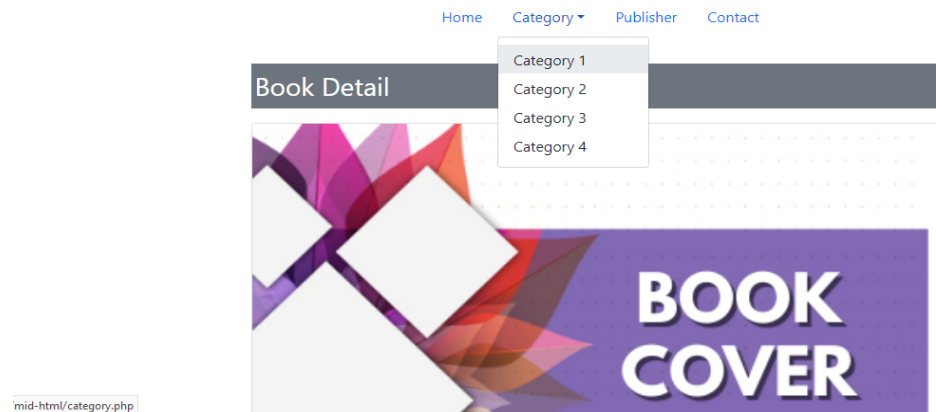


Figure 3. Category Menu

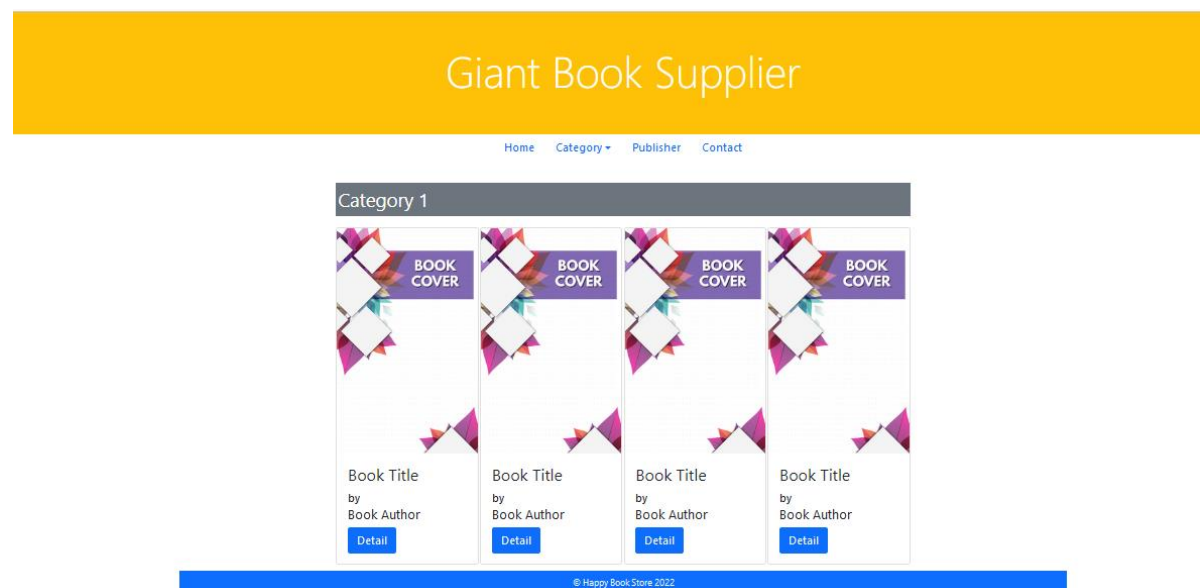


Figure 4. Category Page

### 3. Publisher Page

All publishers data can be accessed by clicking Publisher menu navigation on page header. The displayed data of publisher including publisher logo, publisher name and publisher address. One publisher can publish more than one book. Visitor could get more information about a publisher including publisher name, publisher address, publisher phone, publisher email and all books under his/her publishing by clicking 'Detail' button.

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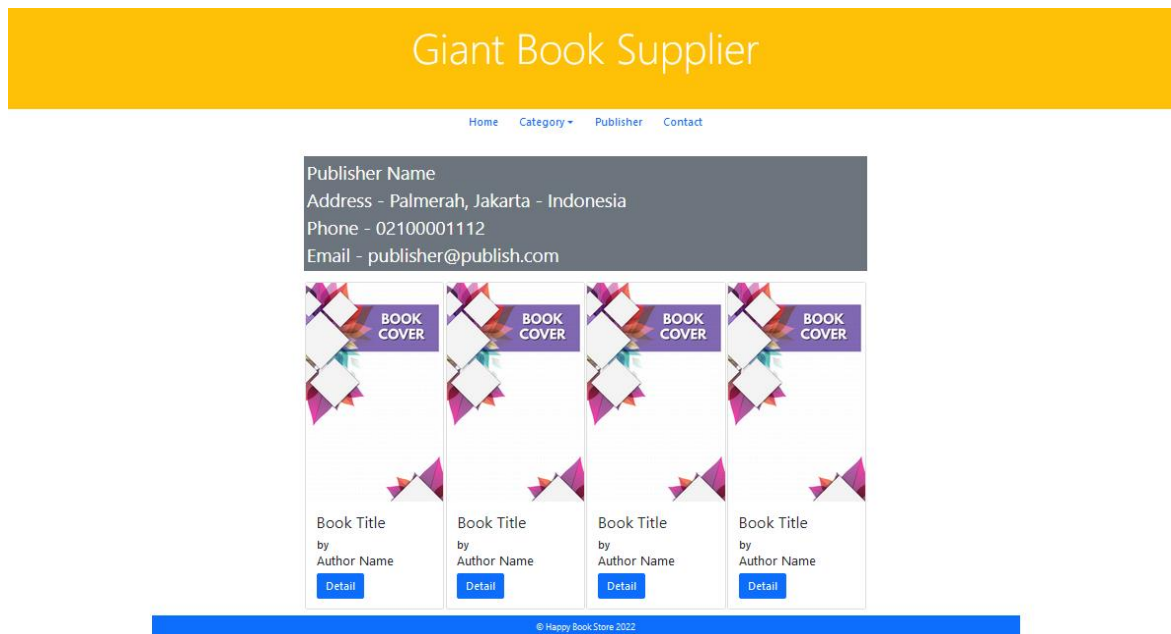


Figure 5. Publisher detail

#### 4. Contact Page

Contact page is a static page that filled with Giant Book Supplier contact information such as address, email and phone number.

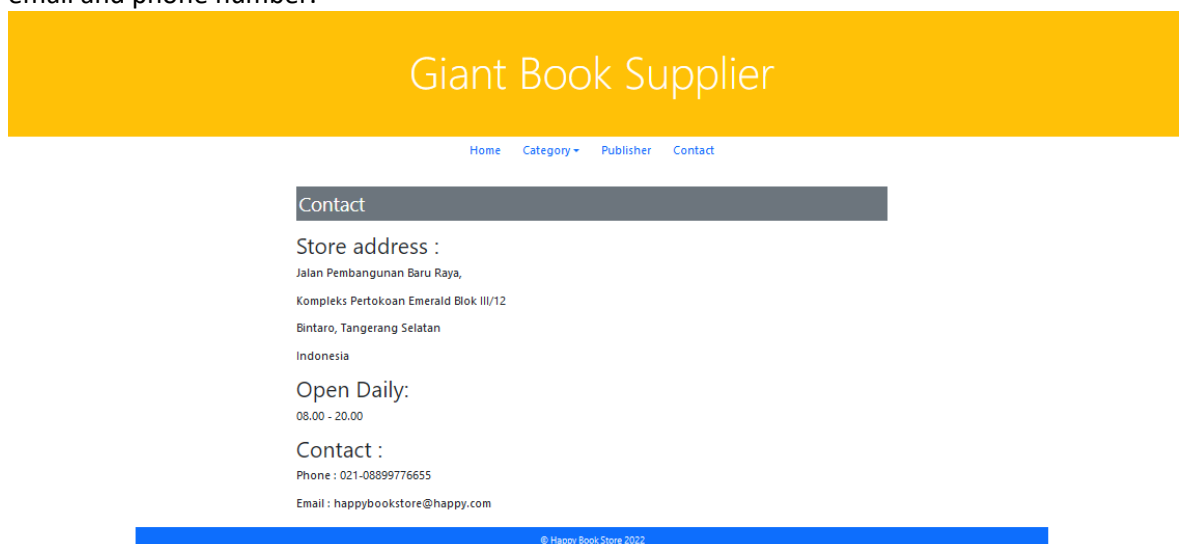


Figure 6. Contact page

#### Requirements :

##### Table name, fields, key attribute and data type

categories : id (PK), name (string)

books : id (PK), publisher\_id(FK), title (string), author (string), year (int), synopsis (string), image (string)

book\_category : id (PK), book\_id (FK), category\_id (FK)

publishers : id (PK), name (string), address (string), phone (string), email (string), image (string)

##### Table relationship

One publisher could publish more than one book, a book only refer to one publisher.

One category could have more than one book, a book can refer to few category.

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Your job is to develop a web app as described above. The grading details are :

1. **[LO 1, LO 2 & LO 3, 10 points]** Routing (all that related to Routing)
2. **[LO 1, LO 2 & LO 3, 30 points]** View and Blade (styling with bootstrap, CSS, blade template, blade directives, etc)
3. **[LO 1, LO 2 & LO 3, 30 points]** Controller (all that related to Controller)
4. **[LO 1, LO 2 & LO 3, 20 points]** Model (all that related to Model)
5. **[LO 1, LO 2 & LO 3, 10 points]** Migration and Database seeder (all that related to database creation)

Note :

You could enhance the app development (such as color, font, image, layout, etc) as long as follow the requirements. Upload your project on any cloud storage (keep it unlock). Capture (screenshot) what important as evidence of your work such as routing code, controller code, models code, views code, migration and database seeder code, and page result on browser. Put your capture on answer-sheet along with your project link. ***The application that run improperly can affect scoring.***

-- Happy Exam --

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