

BINUS University

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| Academic Career: <i>Undergraduate / Master / Doctoral *)</i> | | Class Program: <i>International / Regular / Smart Program / Global-Class / BINUS Online Learning *)</i> | |
| <input type="checkbox"/> Mid Exam <input type="checkbox"/> Compact Term Exam <input checked="" type="checkbox"/> Final Exam <input type="checkbox"/> Other Exam: _____ | | Term: Odd / Even / Compact *) Period (Only for BOL): 1 / 2 *) | |
| <input checked="" type="checkbox"/> Kemanggisan <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 | | Academic Year : 2022 / 2023 | |
| Exam Type* : Onsite / Online | | Faculty / Dept. : School of Computer Science | |
| Day / Date** : Thursday / February 9 th , 2023 | | Code - Course : COMP6681001 – Web Programming | |
| Time** : 13:00 | | 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*** : | | Student ID *** : | |
| <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 | | Name *** : | |
| | | Signature *** : | |
| *) Strikethrough the unnecessary items **) For Online Exam, this is the due date ***) Only for Onsite Exam | | | |
| <p><i>Please insert the test paper into the exam booklet and submit both papers after the test.</i></p> <p><i>The penalty for CHEATING is DROP OUT!</i></p> | | | |

Learning Outcomes:

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

LO 4: Create web-based applications using PHP Framework to solve problems that occur in the IT field.

I. Case (100%)

There is a web application called “Amazing E-Grocery”, which is the application that provides limited items (only one in the stock) that can be purchased by online service. The index page of the web application is shown below:

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Figure 1. Index Page

“Amazing E-Grocery” web application can only be accessed by the user that has already registered & do the login process; hence every user needs to register first. Below are the application’s “Register” and “Login” page.

Figure 2. “Register” Page

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Amazing E-Grocery

Login

Email Address:

Password:

Submit

[Don't have an account? click here to sign up](#)

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Figure 3. “Log In” Page

When the user is already done the registration process and log in, the “Home” page will be shown:



Figure 4. “Home” Page

The “Home” screen will show a maximum of 10 grocery items. If there are more than 10 available items, then the “Home” screen will show the remaining items on the next page (page 2 and so on). The example of “Home – Page 2” can be seen on the below picture:

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Figure 5. "Home – Page 2" Screen

In the "Amazing E-Grocery" web application, there will be a difference between the "User" and "Admin" navigation. The difference is the "Account Maintenance" menu, which only can be accessed by the "Admin". Other than that, "Home", "Cart", and "Profile" menu can be accessed by the "User" and the "Admin".



Figure 6. "User" Navigation



Figure 7. "Admin" Navigation

The "User" and "Admin" can buy one or more E-Grocery by clicking the E-Grocery title on "Home" page and "Buy" button. The chosen E-Grocery will be shown on "Cart" page as shown on the below figure:

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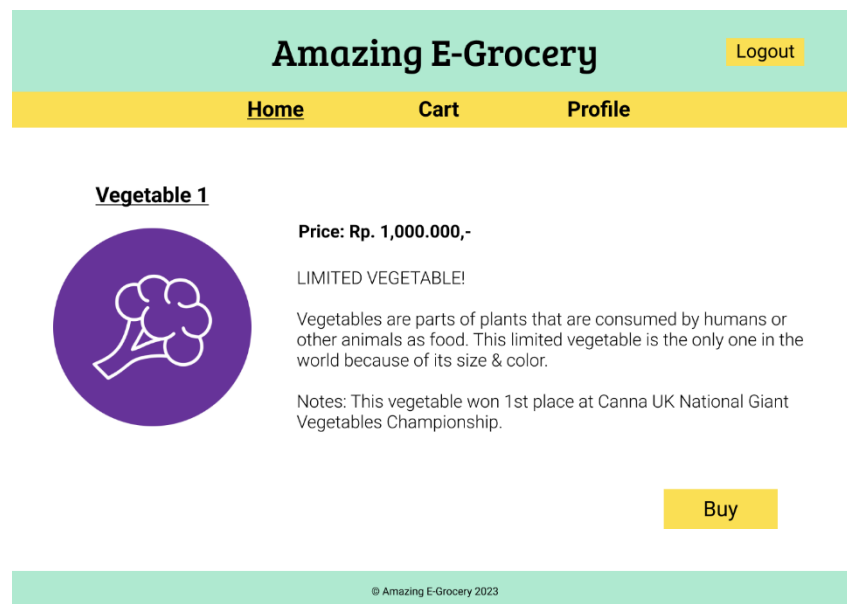


Figure 8. "E-Grocery Item Detail" Page to View the Item's Price and Description

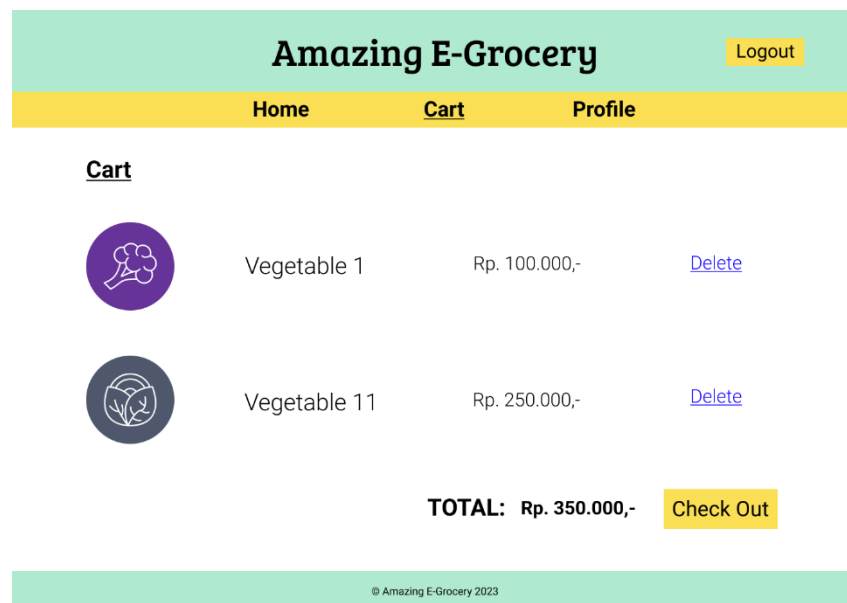


Figure 9. "Cart" Page

On "Cart" page, the E-Grocery list can be deleted by clicking the "Delete" button. For example, here, the "Vegetable 1" is deleted & the "Cart" page will only show the "Vegetable 11":

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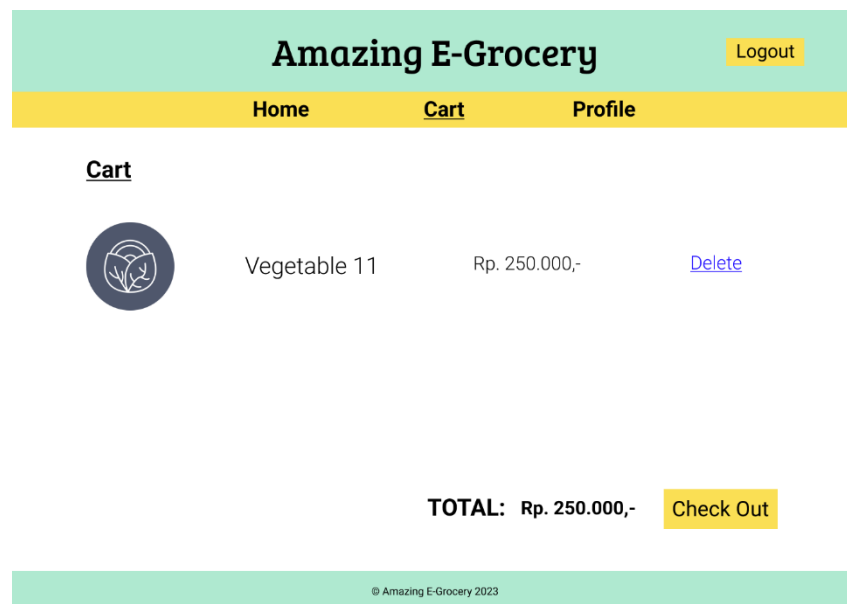


Figure 10. “Cart” Page – After “Vegetable 1” is Deleted

When the list is finalized, the order can be made by clicking the “Check Out” button. If it succeeds, then the “Success” page will be shown (below figure):



Figure 11. “Success” Page

Other than the *E-Grocery* shopping feature, the “User” and “Admin” can change their personal data on “Profile” menu. If it succeeds, the “Saved” page will be shown:

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Figure 12. "Profile" Page

Figure 13. "Saved" Page

Specifically, for the "Admin", the "Account Maintenance" menu can be accessed to change the account's role by clicking the "Update Role" link & delete the "Amazing E-Grocery" application's account by clicking the "Delete" link:

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Amazing E-Grocery

Logout

Home

Cart

Profile

Account Maintenance

| Account | Action |
|-------------------|--|
| First L. - User | Update Role Delete |
| Account 2 - User | Update Role Delete |
| Account 3 - Admin | Update Role Delete |
| Account 4 - User | Update Role Delete |
| Account 5 - Admin | Update Role Delete |
| Account 6 - User | Update Role Delete |
| Account 7 - User | Update Role Delete |

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Figure 14. "Account Maintenance" Page

Amazing E-Grocery

Logout

Home

Cart

Profile

Account Maintenance

First L.

Role:

User

V

Save

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Figure 15. "Update Role" Page

If the role is successfully changed, then the new role will be shown immediately like the below figure:

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| Amazing E-Grocery | | | Logout |
|-------------------|----------------------|-----------------------------|------------------------|
| Home | Cart | Profile | Account Maintenance |
| Account | | Action | |
| | First Mid L. - Admin | Update Role | Delete |
| | Account 2 - User | Update Role | Delete |
| | Account 3 - Admin | Update Role | Delete |
| | Account 4 - User | Update Role | Delete |
| | Account 5 - Admin | Update Role | Delete |
| | Account 6 - User | Update Role | Delete |
| | Account 7 - User | Update Role | Delete |

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Figure 16. "Account Maintenance" Page when "First L."s role is successfully changed

And if one of the accounts is successfully deleted, then the account will not be shown any more like the below figure:

| Amazing E-Grocery | | | Logout |
|-------------------|----------------------|-----------------------------|------------------------|
| Home | Cart | Profile | Account Maintenance |
| Account | | Action | |
| | First Mid L. - Admin | Update Role | Delete |
| | Account 2 - User | Update Role | Delete |
| | Account 3 - Admin | Update Role | Delete |
| | Account 4 - User | Update Role | Delete |
| | Account 5 - Admin | Update Role | Delete |
| | Account 6 - User | Update Role | Delete |

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Figure 17. "Account Maintenance" page when "Account 7" is successfully deleted

Finally, if the "User" or "Admin" is logged out from the application, the "Log Out Success" will be shown. After logging out, the user's session will be deleted automatically & the application will be redirected to the Index page. **The "User" and the "Admin" must log in again if they want to access the web application.**

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Figure 188. “Log Out Success” Page

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Below is the database design/table structure:

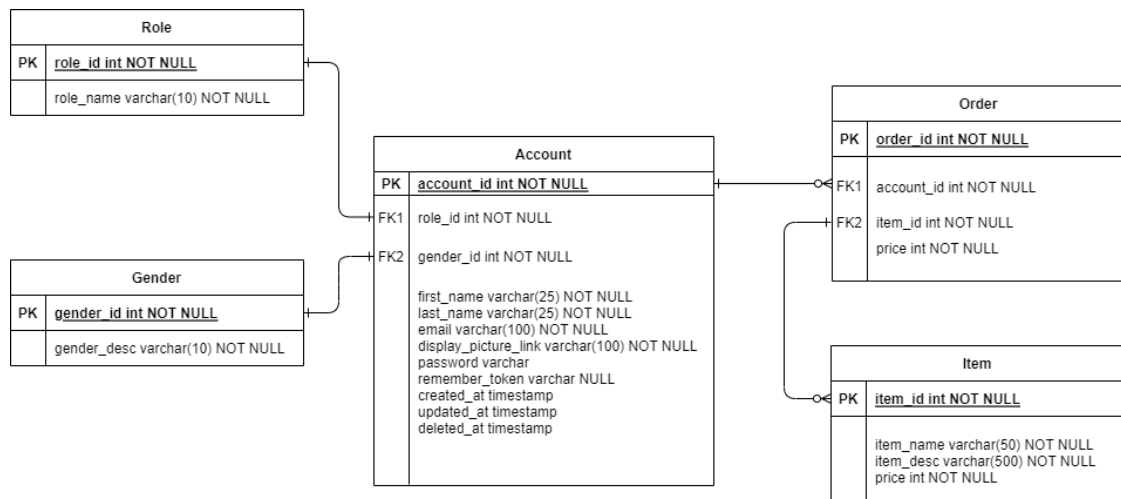


Figure 199. Database Design

Your Assignment:

Create the “Amazing E-Grocery” web application using Laravel and phpMyAdmin with the requirements below. For the E-Grocery list, the list that has been made from Mid Term Exam/Projects can be used:

1. **[LO3, LO4, 20 Points]** Create the below menu in the form format:
 - a. **Registration form on the “Register” page with below validations:**
 - i. *First Name* à mandatory, no symbol, the maximum character is 25 characters.
 - ii. *Last Name* à mandatory, no symbol, the maximum character is 25 characters.
 - iii. *Email* à mandatory, should be valid (include “@” and “.” Symbol).
 - iv. *Role* à mandatory and should be chosen from “User” or “Admin”.
 - v. *Gender* à mandatory
 - vi. *Display Picture* à mandatory, only for image files, and can’t be inputted by other media files such as music or video.
 - vii. *Password* à mandatory, minimum 8 characters, include minimum 1 number.
 - viii. *Confirm Password* à mandatory, minimum 8 characters, include minimum 1 number, should be the same value as the “Password” field
 - b. **Login form on the “Login” page with below validations:**
 - i. The “Email” and “Password” should have been registered & saved on the database
 - ii. If the “User” input the wrong email/password, the “Wrong Email/Password. Please Check Again” error notification should be shown
 - c. **“Profile” menu** for the “User” and “Admin” to change their personal data:
 - i. The saved value should be shown first when the “User” or “Admin” access the “Profile” menu
 - ii. All fields are mandatory to be filled in, including the “Password” and “Confirm Password” field
 - iii. The validation is the same as the validation on the “Sign Up” page
2. **[LO3, LO4, 30 Points]** Create the **“Home” page and “Cart” menu for the “User” and “Admin”** when they can view the E-Grocery description and add, update, and delete the wanted E-Grocery list for the shopping process and the **“Account Authentication” menu**.

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3. **[LO3, LO4, 10 Points]** Create the **authentication and session** when the “User” or “Admin” log in and use the web application. The session should also be deleted when the “User” or “Admin” is already logged out.
4. **[LO3, LO4, 15 Points]** Create a “**Change Role**” page for the “Admin” with below requirements:
 - a. The page can only be accessed by the user with “Admin” role.
 - b. The admin should choose the account from the registered account list.
5. **[LO3, LO4, 10 Points]** Create Localization of the **dictionary for Indonesian (ID) and English (EN) and should be implemented on the view/blade.**
6. **[LO3, LO4, 15 Points]** Create the **middleware** with below requirements:
 - a. The unregistered user can’t access the “User” or “Admin” page.
If there’s an unregistered user who tried to access the “User” or “Admin” page through URL, the application will **redirect the unregistered user to the “Index” page.**
 - b. The user with the “User” role can’t access the “Admin” page and “Account Maintenance” menu.
If there’s a “User” tried to access the “Admin” page or “Account Maintenance” menu through the URL, then the application will **redirect the user to the “Home” page.**

Notes:

You could enhance the app development (such as color, font, image, layout, etc.) by following the requirements. Upload your project on any cloud storage (**KEEP IT UNLOCK**). Make a **demo video (Max 10 minutes)** to show all page results and upload it on cloud storage. Put your link video on the answer-sheet along with your project link. ***An application that runs improperly can affect scoring.***

Also, please write the contactable id/phone number to help the lecturer with any difficulties on the scoring process (can be an Email, Line ID, WhatsApp number, etc.).

-- Good Luck --

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