|  |  |
| --- | --- |
| **Project Case** |  |
| COMP6681001  Web Programming |
| **Computer Science** | **O222-COMP6681-ES07-00** |
| ***Valid on*** *Odd Semester Year 2021/2022* | **Revision 01** |

1. Seluruh kelompok tidak diperkenankan untuk:

*The whole group is not allowed to:*

* + - Melihat sebagian atau seluruh proyek kelompok lain,

*Seeing a part or the whole project from another groups*

* + - Menyadur sebagian maupun seluruh proyek dari buku,

*Adapted a part or the whole project from the book*

* + - Mendownload sebagian maupun seluruh proyek dari internet,

*Downloading a part or the whole project from the internet,*

* + - Mengerjakan soal yang tidak sesuai dengan tema yang ada di soal proyek,

*Working with another theme which is not in accordance with the existing theme in the matter of the project,*

* + - Melakukan tindakan kecurangan lainnya,

*Committing other dishonest actions,*

* + - Secara sengaja maupun tidak sengaja melakukan segala tindakan kelalaian yang menyebabkan hasil karyanya berhasil dicontek oleh orang lain / kelompok lain.

*Accidentally or intentionally conduct any failure action that cause the results of the project was copied by someone else / other groups.*

1. Jika kelompok terbukti melakukan tindakan seperti yang dijelaskan butir 1 di atas, maka **nilai kelompok** yang melakukan kecurangan (menyontek maupun dicontek) akan di – **NOL** – kan.

*If the group is proved to the actions described in point 1 above, the score of the group which committed dishonest acts (cheating or being cheated) will be “Zero”*

1. Perhatikan jadwal pengumpulan proyek, segala jenis pengumpulan proyek di luar jadwal tidak dilayani.

*Pay attention to the submission schedule for the project, all kinds of submission outside the project schedule will not be accepted*

1. Bila Anda tidak membaca peraturan ini, maka Anda dianggap telah membaca dan menyetujuinya

*If you have missed to read these regulations, so you are considered to have read and agreed on it*

1. Persentase penilaiaan untuk matakuliah ini adalah sebagai berikut:

*Marking percentage for this subject is described as follows:*

|  |  |  |
| --- | --- | --- |
| **Tugas Mandiri**  *Assignment* | **Proyek**  *Project* | **UAP**  *Final Exam* |
| - | 100% | - |

1. Software yang digunakan pada matakuliah ini adalah sebagai berikut:

*Software will be used in this subject are described as follows:*

|  |
| --- |
| **Software**  *Software* |
| PHP Composer 1.10.7  PHP Storm 2020.1.2  Laravel Framework 7  Visual Studio Code  XAMPP 7.4.7  Chrome / Firefox / Microsoft Edge |

## Ekstensi file yang harus disertakan dalam pengumpulan proyek untuk matakuliah ini adalah sebagai berikut:

*File extensions should be included in project collection for this subject are described as follows:*

|  |
| --- |
| **Proyek**  *Project* |
| Folder Project (PHP, SQL, Image Files (JPG / PNG), ENV, HTML, CSS, SCSS, JS, JSON, HTACCESS, ARTISAN) |

General Provisions:

* Use **MySQL** asdatabase and must using **Laravel Migration** features.
* **All file upload** feature such as image and document must be **stored to server storage**.
* Use PHP Framework **Laravel 8** to build the project.
* Use Laravel **MVC** concept (**Model, View, Controller**) to build the project.
* Use **Eloquent Query / Query Builder** to work with database.
* You are free to design your own database table **based on given requirements**.
* Print screen given below is only an example. You are free to create your own user interfaces.
* It is **prohibited** to install any kind of Laravel packages. You must use fresh installation of **Laravel 8**. Laravel UI package is allowed for authentication
* Only **validation** in the **backend** (using Laravel) will be graded.
* **Regular** **Expression** (**ReGex**) **validation** will **not be scored**.

## Soal

*Case*

**Keypedia**

**Keypedia** is a famous keyboard shop in Indonesia made by a famous computer science student from Korea. To expand its business, **Keypedia** wants to create a website for their shop. In that website, people can find information about **Keypedia**’s products and order it. This website enables the customers to know what is inside **Keypedia**.

As a web developer, you are asked to create a website using **Laravel** **8** for this online shop. There are three types of user’s role in this website: **Manager**, **Customer**, and **Guest** (**non-logged-in user**).

Each page shows **greeting to user**, and **current** **date** **time**. The descriptions for each page are:

* + - 1. **Login Page**

This page allows **guest** to log in to the website. Display an **error message** on the **Login Page** if user enters wrong combination of **Email** and **Password**.

If user has entered correct **Email** and **Password**, the page will be redirected to the **Home Page** based on the user’s role. Ifuser **checks the Remember Me** checkbox, the website will save the **Email** and **Password** using cookies for **7 days**. The following table shows the existing fields on this page and the validation for each field:

|  |  |
| --- | --- |
| **Field** | **Information** |
| **Email** | Must be **filled** and **email validation** |
| **Password** | Must be **filled** |

Graphical user interface

Description automatically generated

**Figure 1. Login Page**

1. **Register Page**

This page allows **guest** to **register** themselves as **Keypedia** customer. Display an **error message** if user input incorrect personal data. The following table shows the existing fields on this page and the validation for each field:

|  |  |
| --- | --- |
| **Field** | **Information** |
| **Username** | Must be **filled** with **minimum 5 characters** |
| **Email Address** | Must be **filled** with **email validation** and **unique** |
| **Password** | Must be **filled** with **minimum 8 characters** |
| **Confirm Password** | Must be **filled** and **same with password** |
| **Address** | Must be **filled** and **minimum 10 characters** |
| **Gender** | Must be **selected** |
| **Date of Birth** | Must be **filled** |

**Graphical user interface, application

Description automatically generated**

**Figure 2. Register Page**

1. **Home**

This page allows user to see all **Keypedia categories** and accessible for **all users**. In this page, user can also pick the **Keypedia** categories at **Categories dropdown menu in the navbar.**

In this page, **guest** can **Login** or **Register**. **After logged in**, **display the user**’**s username between** the **Categories menu** and **current date.** Then make a dropdown to **display** some menu through the **username**’**s** **menu.**

For **manager,** there are several menus such as **Add Keyboard**, **Manage Categories**, **Change Password**, and **Logout at the username’s dropdown menu** in the navbar.While for **customer**,the menus are **My Cart, Transaction History**, **Change Password**, and **Logout at the username’s dropdown menu** in the navbar.

**Calendar

Description automatically generated**

**Figure 3. Home Page (for Manager)**

**Calendar

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**Figure 4. Home Page (for Customer)**

Table, calendar

Description automatically generated

**Figure 5. Home Page (for Guest)**

1. **View Keyboard Page**

This page is accessible for **all users**. This page shows all **Keypedia** product based on its **Categories**. For **manager**, this page can also be **used to update or delete each keyboard**. This page also **includes pagination** to display **8 items in per page** and **search field** to search keyboard by its **name** and **price**. This page displays **keyboard’s image, name, and price. Each keyboard can be clicked to redirect into Keyboard Detail Page.**

**Graphical user interface, website

Description automatically generated**

**Figure 6. View Keyboard Page (for Manager)**

Each product in the lists have **Delete Keyboard** and **Update Keyboard** buttons:

* If **manager** clicks **Delete Keyboard** button, it will **delete** the selected product
* If **manager** clicks **Update** **Keyboard** button, it will redirect them to **Update Keyboard** **Page**

Graphical user interface

Description automatically generated

**Figure 7. View Keyboard Page (for Guest and Customer)**

1. **Update Keyboard Page**

This page is only accessible for **manager**. This page will show all the data of the keyboard and its description. The following table shows existing fields in the page and the validation for each field:

|  |  |
| --- | --- |
| **Field** | **Information** |
| **Category** | Must be **selected** |
| **Keyboard Name** | Must be **filled**, and **minimum 5 characters** |
| **Keyboard Price** | Must be **filled** with **integer** **format** and **more than 0** |
| **Description** | Must be **filled** and **minimum 20 characters** |
| **Keyboard Image** | Can be **filled or not** |

Graphical user interface, application

Description automatically generated

**Figure 8. Update Keyboard Page**

1. **Keyboard Detail Page**

This page allows **all users** to see details of each keyboard. There is also an **Add to Cart** button. Validate the button to only appear for **guest** and **customer**, then validate if **guest** clicks **Add to Cart** button, they will be **redirected** to **Login Page**. In this page, there will be a **text field for inputting quantity of the product** you want to purchase. There will be an **error message if user input a quantity below 1**.

Graphical user interface

Description automatically generated

**Figure 9. Keyboard Detail Page (for Manager)**

***Graphical user interface

Description automatically generated*Figure 10. Keyboard Detail Page (for Guest and Customer)**

1. **Add Keyboard Page**

This page will allow **manager** to add new keyboard and can be access when **Manager** choose **Add Keyboard** button at **username’s dropdown menu** in the navbar. Display an **error message** if user input incorrect data.The following table shows existing fields in the page and the validation for each field:

|  |  |
| --- | --- |
| **Field** | **Information** |
| **Category** | Must be **selected** |
| **Keyboard Name** | Must be **filled**, **unique**, and **minimum 5 characters** |
| **Keyboard Price** | Must be **filled** with **integer** **format** and **minimum 30 characters** |
| **Description** | Must be **filled** and **minimum 20 characters** |
| **Keyboard Image** | Must be **filled** |

Graphical user interface, application

Description automatically generated

**Figure 11. Add Keyboard Page**

1. **Manage Category Page**

This page is accessible only for **manager**. First, **insert** the **category’s image** and **name to the database using seeder.** Then **display** all the **category’s image** and **name.**

Calendar

Description automatically generated

**Figure 12. Manage Categories Page**

Each product in the lists have **Update Category** and **Delete Category** buttons:

* If Manager click **Delete Category** button, it will **delete** the selected category
* If Manager click **Update Category** button, they will be **redirected** to **Update Category Page**

1. **Update Category Page**

This page allows **manager** to update existing category. Display **an** **error message** if Manager input incorrect category data. The following table shows existing fields in the page and the validation for each field:

|  |  |
| --- | --- |
| **Field** | **Information** |
| **Category Name** | Must be **filled**, **unique**, and **minimum 5 characters** |
| **Category Image** | Can be **filled** or **not** |

If Manager click **Update** button, then update current selected category with updated data. After that, redirect back to **Manage Category Page**.

Graphical user interface

Description automatically generated

**Figure 13. Update Category Page**

1. **My Cart Page**

This page is accessible for **customer** to show customer’s cart. In this page, users can see all the keyboard details in the cart, such as **keyboard’s image, name, subtotal (price x quantity) and quantity.**

. There will be 2 buttons: **Update** and **Checkout**. When user click **Update** button, it will be used to update its item quantity (**quantity must not below 0)**. If the customer **update quantity to 0**, then it will **delete the selected items from the cart**. If user clicks **Checkout** button, it will **delete all items in the cart** and those items will be inserted to **Transaction History.**

Graphical user interface

Description automatically generated

**Figure 14. My Cart Page**

1. **Transaction History Page**

This page is accessible for **customer** to show their transaction history. This page display will be sorted by the **newest transaction.** If the customer **clicks a** **transaction history**, it will redirect to selected **Transaction History Detail Page.**

Graphical user interface, text, chat or text message, website

Description automatically generated

**Figure 15. Transaction History Page**

1. **Transaction History Detail Page**

This page will show the **transaction history detail** from the **selected transaction history at Transaction History Page**. The informationthat must be displayed are **keyboard’s image, name, subtotal (price x quantity) and quantity.** At the bottom of transaction history detail, there will be **Total Price** of the transaction history.

Graphical user interface, table

Description automatically generated

**Figure 16. Transaction History Detail Page**

1. **Change Password Page**

**Logged-in users (customer** and **manager)** can **change their password** in this page. The following table shows the existing fields on this page and the validation for each field:

|  |  |
| --- | --- |
| **Field** | **Information** |
| **Your Password** | Must be **filled** and **same** with **the current password** |
| **New Password** | Must be **filled** with **minimum 8 characters** |
| **Confirm Password** | Must be **filled** and **same with new password** |

Graphical user interface

Description automatically generated

**Figure 17. Change Password Page**

Here are the rules that you must follow to create your project:

1. Use appropriate software for this subject based on **Sistem Praktikum** that can be downloaded from Binusmaya.
2. Use the techniques taught during practicum.
3. Collect appropriate files for this subject based on **Sistem Praktikum** that can be downloaded from Binusmaya.
4. Include the other files that can support your project, such as:
   * All files in your project
   * Other files (image, audio, video, etc.) used in your project
   * \*.DOC file (documentation of your project) that contains all pages in your project, reference links of additional files (image, audio, video, etc.) used in your project, the description about how to use your application, etc.
5. If there are some hidden creativities, please note them in the existing documentation because they can greatly affect your project score.

**References Link:**

https://sea.banggood.com/id/search/keyboard-61-keys.html?from=nav

https://sea.banggood.com/id/search/keyboard-87-keys.html?from=nav

https://sea.banggood.com/id/search/keyboard-xda-profile.html?from=nav

https://sea.banggood.com/id/search/keyboard-cherry-profile.html?from=nav

https://www.tokopedia.com/search?q=keyboard%20mechanical&source=universe&st=product&navsource=home

https://coolors.co/palettes/trending

https://www.tokopedia.com/search?st=product&q=keyboard%2087%20key&navsource=home