|  |  |
| --- | --- |
| **Soal Tugas Mandiri**  *Assignment Case* |  |
| COMP6114  Pattern Software Design |
| **Teknik Informatika**  *Computer Science* | **E173-COMP6114-ER01** |
| **Periode Berlaku** Semester Genap 2016/2017  ***Valid on*** *Even Semester Year 2016/2017* | **Revisi 00**  *Revision 00* |

1. Seluruh mahasiswa tidak diperkenankan untuk:

*All students are not allowed to:*

* + - Melihat sebagian atau seluruh jawaban mahasiswa lain,

*Seeing a part or the whole answer from other student*

* + - Menyadur sebagian maupun seluruh jawaban dari buku,

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

* + - Mendownload sebagian maupun seluruh jawaban dari internet,

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

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

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

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

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

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

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

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* |
| 40% | 60% | - |

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

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

|  |
| --- |
| **Software**  *Software* |
| Visual Studio 2015 Community Edition  SAP Crystal Reports 13.0.16  IE/Firefox/Chrome |

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

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

|  |  |
| --- | --- |
| **Tugas Mandiri**  *Assignment* | **Proyek**  *Project* |
| Folder Project (SQL, ASPX, ASPX.VB, ASPX.CS, CONFIG, ASHX, WEBINFO, DLL, PDB, DBML, DBML.LAYOUT, DESIGNER.VB, MDF, LDF, image | Folder Project (SQL, ASPX, ASPX.VB, ASPX.CS, CONFIG, ASHX, WEBINFO, DLL, PDB, DBML, DBML.LAYOUT, DESIGNER.VB, MDF, LDF, image |

## Soal

*Case*

**Bluejack Cake**

**Bluejack Cake** is a well-known cake shop in the town. Nowadays, **Bluejack Cake** wants to expand its business by using website. To start this business expansion, it needs to create a website for their shop. In that website, people can find information about the cakes. This website also allows administrator to manage users and cakes in **Bluejack Cake**.

As a web developer, you are asked to create a website using **ASP.net** for **Bluejack Cake**. You are also **required** to use **Domain Driven Design** method to develop the website. The **required** layers are **Repository**, **Factory**, and **Model**. There are three types of user’s roles in this website: **Administrator**, **Customer**, and **Guest** (**non-logged-in user**).

Minimum pages you need to create for each role are:

* **Administrator**
  + Home
  + Cake
  + Add Cake
  + Update Cake
  + View Customer
  + Logout
* **Customer**
  + Home
  + Cake
  + Logout
* **Guest**
  + Home
  + Login
  + Register
  + Forget Password
  + Cake

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

* + - 1. **Home**

This page tells about general information about **Bluejack Cake** and the **newest** **promotion**. This page is accessible by **all users**.

1. **Login**

This page is **accessible** to **guest** only. Display an **error message** on the login form if user enters wrong combination of **Email** and **Password**. The following table shows the existing fields in the login form and validations for each field:

|  |  |
| --- | --- |
| **Field** | **Information** |
| **Email** | * + - Must be filled and match the data in the database |
| **Password** | * + - Must be filled and match the data in the database |

If user has entered correct **Email** and **Password**, the page will be redirected to **Home Page** and if user checks the “**Remember Me**” checkbox, the website will save the **Email** using cookies for **1 hour** and will display the **Email** on the **Email field** in the login form.

1. **Register**

This page allows guests to **register** themselves as **Bluejack Cake** customer. Validate this page is accessible to **guest** only. 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** |
| **Name** | * + - Must be filled |
| **Email** | * + - Must be filled     - Cannot take an existing Email in database |
| **Password** | * + - Must be filled |
| **Confirm Password** | * + - Must be **exactly same** **as** P**assword** |
| **Date of Birth** | * + - Must be filled |
| **Phone Number** | * + - Must be filled |
| **Address** | * + - Must be filled |

1. **Forget Password**

This page allows user to reset their forgotten **password**. This page is accessible by **guest** user only. Display **error message** if users input **email** that does **not exists** in database. If the **email exists**, a **new password** will be **generated** (the **old password** in the database will be **replaced** with new **password**) and **displayed**. The following table shows the conditions for the **new password**:

|  |  |
| --- | --- |
| **Field** | **Information** |
| **New Password** | Must contain exactly 6 characters  Random each character, as follows:   * Generate two random numbers [0-9] for the first two characters. * Generate two random alphabets [a-z] for the next two characters * The last two characters is obtained from the customer’s name   Example:  **Customer Name: Bella**  **New password: 27zkBe** |

1. **Cake**

This page allows user to see all **cakes information** from **Bluejack Cake**. This page is acccessible for **all users**. The information of cake that must be shown are **Cake Name**, **Cake Picture**, **Stock**,and **Price**.

For **administrator**, provide **Add Cake**, **Update Cake**, and **Delete Cake** buttons:

* + To add new cake, **administrator** can click **Add Cake** button.
  + To **update cake**, administrator can click **Update** button.
  + To **delete** **cake**, administrator can click **Delete** button.

1. **Add cake**

This page allows **administrator** to **insert new cake**. The page will be shown if administrator click **Add Cake** button in **Cake** page. Display **error message** if **administrator** input incorrect cake data. The following table shows existing fields in this page and the validation for each field:

|  |  |
| --- | --- |
| **Field** | **Information** |
| **Cake Name** | * + - Must be filled     - Cake Name must be unique (cannot take existing Cake Name) |
| **Price** | * + - Must be filled |
| **Stock** | * + - Must be filled and **greater** than **0** |
| **Picture** | * + - Image **extension** must be **.jpg** or **.png** |

1. **Update Cake**

This page allows **administrator** to **update the cake data**. This page will be di shown if administrator clicks **Update button** in the **Cake page**. Display **error message** if **administrator** input incorrect cake data. The following table shows existing fields in the page and the validation for each field:

|  |  |
| --- | --- |
| **Field** | **Information** |
| **Cake Name** | * + - Must be filled     - Cake Name must be unique (cannot take existing Cake Name) |
| **Price** | * + - Must be filled |
| **Stock** | * + - Must be filled and **greater** than **0** |
| **Picture** | * + - Image **extension** must be **.jpg or .png** |

1. **View Customer**

This page is accesible **only** for **administrator**. This page allows administrator to see **all registered Customer** in **Bluejack Cake**. The infomation of customer that must be shown are **Name**, **Email**, **DOB**, **Phone**,and **Address**. Provide **Delete** button to **delete selected customer**.

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. Collect appropriate files for this subject based on **Sistem Praktikum** that can be downloaded from Binusmaya.
3. 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 the reference links of additional files (image, audio, video, etc.) used in your project

**If you do not understand, please ask your assistant!**