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| **Assignment Case** |  |
| MOBI6006 | MOBI6006001 | MOBI6006003 | MOBI6021 | MOBI6021016 | MOBI6021049  Mobile Community Solution | Mobile Programming |
| **Mobile Application & Technology** | **E233-MOBI6006-JM01-01** |
| ***Valid on*** *Even Semester Year 2022/2023* | **Revision 00** |

1. Mahasiswa tidak diperkenankan untuk:

*Students are prohibited from:*

* + - Berdiskusi dan/atau bekerja sama dengan mahasiswa lainnya,

*Discussing and/or cooperating with other students,*

* + - Melihat sebagian atau seluruh jawaban mahasiswa lainnya,

*Seeing a part or the whole answer from other students,*

* + - Membuka dan/atau menyalin jawaban dari buku, catatan, video, dan jenis referensilainnya,

*Open and/or copy answer from books, notes, videos, and other references,*

* + - Membuka dan/atau menyalin jawaban dari internet,

*Open and/or copy answer from the internet,*

* + - Mengumpulkan jawaban yang tidak sesuai dengan tema soal,

*Submitting an answer with a different theme from the given case,*

* + - Melakukan tindakan yang menyebabkan jawaban dicontek oleh orang lain atau kelompok lain, baik disengaja maupun tidak disengaja,

*Doing action that could result the answer being copied by someone or other groups, intentionally or unintentionally,*

* + - Melakukan tindakan kecurangan lainnya.

*Committing other dishonest actions.*

1. Jika mahasiswa dan/atau terbukti melakukan tindakan seperti yang dicantumkan pada butir ke-1, maka nilai mahasiswa dan/atau kelompok yang melakukan kecurangan, baik menyontek atau dicontek, akan dinolkan sesuai dengan peraturan yang berlaku.

*If it has been proven that a student and/or group has committed dishonest actions outlined in point 1 above, the students and/or groups related to the incident, regardless of which one copies or has their answer copied, will be issued a score of zero according to the regulation.*

1. Jawaban yang dapat diterima dan dinilai adalah jawaban yang dikumpulkan sebelum batas waktu yang telah ditentukan.

*The answer must be submitted before the designated deadline to be accepted and graded,*

1. Jawaban akan dinilai berdasarkan teknik yang diajarkan dalam praktikum dengan menggunakan software yang telah ditentukan.

*The scoring will be based on the materials taught during the practicum classes using the designated software. Using different software than requested may result in your answer not being graded.*

1. Jika Anda tidak membaca peraturan ini, maka Anda dianggap sudah membaca dan menyetujuinya.

*By taking this exam, you agree to these regulations, regardless of whether you have read it or not.*

1. Persentase penilaian untuk matakuliah ini adalah sebagai berikut:

*The score will be distributed as follows:*

|  |  |  |
| --- | --- | --- |
| **Tugas Mandiri**  *Assignment* | **Proyek**  *Project* | **UAP**  *Final Exam* |
| 40% | 60% | - |

1. Perangkat lunak yang digunakan pada matakuliah ini adalah sebagai berikut:

*This course uses the following software:*

|  |
| --- |
| **Software**  *Software* |
| Android SDK API 33  Android Studio Electric Eel 2022.1.1 |

1. Ekstensi file yang harus dikumpulkan untuk matakuliah ini adalah sebagai berikut:

*Your answers must be in the following file extensions:*

|  |  |  |
| --- | --- | --- |
| **Tugas Mandiri**  *Assignment* | **Proyek**  *Project* | **UAP**  *Final Exam* |
| Folder Project (JAVA, CLASS, XML, Image Files (JPG / PNG)) | Folder Project (JAVA, CLASS, XML, Image Files (JPG / PNG)) | - |

## Soal

*Case*

**Bluejack Pharmacy**

**Bluejack Pharmacy** is a pharmacy founded by the **Bluejackets** Community. Today, it stands as one of the best pharmacies in Indonesia. Currently, they are trying to reach more customers by creating a mobile application based on Android operating system that can be downloaded by customers, thus increasing **Bluejack Pharmacy’s** popularity.

As stated above, this application will then need several pages to fulfill its purpose. The breakdown of those pages is described below.

1. **Login Page**

This page contains a login form that will **authenticate users** to the application. The **authentication process** requires the user to input the **registered email and password**. The page has several components and validation, which are:

* Use **EditText** for the **email** and **password** input field. Adjust the component’s type to suit the **proper purpose**.
* Use the **Button** for the user to **log in**.

This Button will **validate** and **authenticate** the user. The **login processes** are:

* + Validate that **email must be filled**.
  + Validate that **password must be filled**.
  + Validate that **username and password** are **registered** in the application’s database.
* If the validation **fails**, the application will **show an error message** according to the failure using **Toast**.
* If the validationsare **fulfilled, check** whether **user is** already **verified** or not**.**
* If user is **verified**, **redirect** the logged-in user to the **home page**, if not show **an error message according** to the failure using Toast.
* Use **Button** that contains the text “**Go to** **Register Page**”. This component will **direct users** to the **Register Page** whenever clicked by the user.

1. **Register Page**

This page contains a registration form that will be used to **register a** **new user,** which will then be **stored** in theapplication’s database. The **registration process** requires a **name**, **email**, **password**, **confirm password**, and **phone number**. The requirements for this form are:

* Use **EditText** for the **name**, **email**, **password**, **confirm password**,and **phone number** input field. The component’s type must be adjusted to suit the proper purpose.
* Use **Button** for the user to **register**.

This Button will **validate** and **register** the user. The **registration processes** are:

* + Validate that **all fields must be filled**.
  + Validate that **name** lengthof **at least five characters.**
  + Validate that the **email** must **end with ‘.com’**.
  + Validate that **password** must **be alphanumeric.**
* **User ID** will be an **integer** that always **increments**.
  + If any validation **fails,** the application will **show an error message** according to the failure using **Toast**.
* Use **Button** that contains the text “**Go to** **Login Page**”. This component will **direct users** to the **Login Page** whenever clicked by the user.

1. **Home Page**

This home page contains **two sections**: the **home section** and **transaction section**. You canuse anything (menu item, navigation drawer, tabs, or bottom navigation) for these sections. The details for the sections will be explained below:

* **Home Section**
* Show your **application’s logo** with **Image View.**
* Show **list all available medicine data** from the application’s database.
* You must use **Recycler View** to show the data. Show **medicine’s image, medicine’s name, medicine’s manufacturer, medicine’s price** in every medicine item.
* When thespecific medicine is **clicked, redirect** the user to the **corresponding medicine detail page**.
* Provides **logout Button** to **log out the user** from the application.
* **Redirect** the user to **Login Page** after the user successfully logged out.
* **Transaction Section**
* Get the **transaction list** witha specific **logged-in user** from the application’s database.
* You must use **Recycler View** to show the data. Show **transaction date**, **medicine’s name, medicine’s price,** and **transaction quantity** in every transaction item.
* Provides **update** and **delete** **button** in every transaction item.
* If the user **clicks** the **update** button, the user to **input the quantity**. Then **validate** the quantity with the validation details below:
* Validate **quantity** must be **filled**.
* Validate **quantity** must be **more** **than** **0**.
* If any validation **fails,** the application will **show an error message** according to the failure using **Toast.**
* Otherwise, **update the quantity** of the selected transaction data in the application’s database.
* If the user **clicks** the **delete** button, **delete** the **selected** **transaction** in the application’s database.
* Provides **logout Button** to **log out the user** from the application.
* **Redirect** the user to **Login Page** after the user successfully logged out.

1. **Medicine Detail Page**

This page will **show** **detailed medicine information** for a specific medicine from the application’s database. Show **medicine’s image, medicine’s name, medicine’s manufacturer, medicine’s price,** and **medicine’s description**. This page also **provides a form** for users to **buy** the medicine. The requirements for this form are:

* Use **EditText** to enter the **quantity** that the user wants to buy. The components’ type must be adjusted to suit the proper purpose.
* Use **Button** for the user to **buy the medicine**.

This Button will **validate** and **insert** the transaction data into the application’s database. The transaction **process details** will be explained below:

* Validate **quantity** must be **filled**.
* Validate **quantity** must be **more** **than** **0**.
* If any validation **fails,** the application will **show an error message** according to the failure using **Toast.**
* Otherwise, **insert the transaction** of the selected film and the quantity in the application’s database.

1. **About Us Page**

This page will show the user of **Bluejack Pharmacy’s profile**. The requirements for this page are specified below:

* Provide a **TextView** that serves as a header that writes “**About Us**”.
* Provide another **TextView** that shows the **company description**.
* Use **Google Play Services** for **Android Maps SDK**.