

## Soal

Case

#### DiZcord

**DiZcord** is about giving people the power to create space to find belonging in their lives. We want to make it easier for you to communicate regularly with the people you care about. We want you to build genuine relationships with your friends and communities close to home or around the world. You as a programmer are asked by the CEO to create the program by using **Java** with the following requirements:

- Login Page (Menu 1)
  - Prompt user to input the combination of his / her account credential (username password)
     or (email password).

```
LOGIN
----
Input username / email : adrian
Input password : tesT123
User doesn't exist !
```

Figure 1. Login Page

- 1. If the user doesn't exist, then:
  - o Prompt user to register new account.
  - Prompt user to input Y or N (case sensitive).
  - o If user input Y, redirect user to the register page.
  - o If user input N, redirect user to the login page.

```
Do you want to register instead ? (Y | N) [case sensitive] > Y
```

Figure 2. Prompt User to Register

Halaman: 1 dari 6 Page 1 of 6 2. If the user does exist, then redirect user to the Main Page.

## Register Page (Menu 2)

- Prompt user to input name. Validate name must be filled and must between 1 and 255 characters inclusively.
- Prompt user to input username. Validate username must be filled and must be between 5
  and 10 characters inclusively.
- **Prompt** user to input **email. Validate** email must be :
  - Ended by '.com'
  - Contain '@' symbol
  - Doesn't start with '@' symbol
- **Prompt** user to input **password. Validate** password must be :
  - Password must be at least 6 characters.
  - o Must be alphanumeric and contain at least one uppercase letter.

```
REGISTER
------
Input name : adrian
Input username : adrianwijaya
Username's length must be 5 - 10 characters !
Input username : adrianw
Input email : adrianwijaya@gmail.com
Input password : tesT123
User has been created successfuly !
```

Figure 3. Register Page

### Main Menu (Menu 3)

- Show current **logged in user's username**.
- This menu contains of **5 menus**, which are **Create New Group**, **Explore Group**, **See own** groups, **Logout**, and **Terminate DiZcord**.
- Prompt user to input chosen menu. Validate the input must 9 or between 0 and 3 inclusively.

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```
Welcome, adrianw
------
1. Create new group
2. Explore groups
3. See own groups
0. Logout
9. Terminate DiZcord
```

Figure 4. Main Menu

- 1. If user choose **Create New Group (Menu 1)**, then:
  - Prompt user to input group's name. Validate the group's name must between 1 and 10 characters inclusively.
  - Prompt user to input group's description. Validate the group's description must between
     1 and 20 characters inclusively.
  - o If the user input "/e" or "/exit", then redirect user to the Main Menu.

```
CREATE NEW GROUP

/e : exit

Input group's name : BJ20-1
Input group's description : Bluejack 20-1

BJ20-1 has been created !
```

Figure 5. Create New Group

- 2. If user choose Explore Group (Menu 2), then:
  - Show all available group with the following information, such as group's name, group's description, and group's member count.
  - Prompt user to input the chosen group's number. Validate the input must between 1 and maximum number of the available group.
  - o If the user input "/e" or "/exit", then redirect user to the Main Menu.
  - o If the user input valid **group's number**, then **add the current user to the group** and redirect the user to the **Group Page**.

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Figure 6. Explore Group

- 3. If user choose **See Own Group**, then:
  - Show all group that the user has joined with the following information, such as group's name, group's description, and group's member count.
  - Prompt user to input the chosen group's number. Validate the input must between 1 and maximum number of the available group.
  - o If the user input "/e" or "/exit", then redirect user to the Main Menu.
  - o If the user input valid **group's number**, then redirect user to the **Group Page**.

Figure 7. See Own Group

- 4. If user choose **Logout**, then:
  - o Remove current logged on user data, then redirect user to the Login Page.
- 5. If user choose **Terminate DiZcord**, then terminate the current running application.

```
See you later !
```

Figure 8. Terminate DiZcord

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# Group Page

- Show group's name, group's description, group's member count and the group's chat, which contain user's username and the user's chat content.
- There is a **list of command** that can be used by the user according to their **role**:
  - Member
    - /e or /exit, redirect user to the Main Menu
    - /I or /leave, remove user from the current group, then redirect user to the Main
       Menu
    - /h or /help, show the list of command that can be used by user.

Figure 9. Command List

### o Admin

- /e or /exit, redirect user to the Main Menu
- /I or /leave, remove user from the current group, then redirect user to the Main Menu. If current user is the one and only admin, then delete the group
- /h or /help, show the list of command that can be used by user
- /u or /update, redirect user to the update group menu
- /k username or /kick username, remove the user from the current group
- /p username or /promote username, promote the user with following username to Admin
- /d username or /demote username, demote the user with following username to
   Member.

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```
BJ20-1
Bluejack 20-1

Members (2)

adrian
Halo semua

william (me)
halo DZ !

william (me)
jadi mukbang ga?

/help (See command list)
>
```

Figure 10. Group Page

## > Update group menu

- Prompt user to input the new group's name. Validate the group's name must be filled and between 1 and 10 characters inclusively.
- Prompt user to input the new group's description. Validate the group's description must be filled and between 1 and 20 characters inclusively.

```
UPDATE GROUP - Tim gabut

Input new name : Tim sibuk
Input new description : Anti gabut2 club

"Tim gabut" has been updated !
```

Figure 11. Update Group Menu

Please run the EXE file to see the sample program.

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