

Advanced Web Programming Migration



Name

Dicha Zelianivan Arkana

NIM

2241720002

Class

2i

Department

Information Technology

Study Program

D4 Informatics Engineering

1 Questions

1. In **Practicum 1 - Step 5**, what is the function of the APP_KEY in the Laravel .env setting file?

It is used to encrypt the session and other data in Laravel.

2. In **Practicum 1**, how do we generate value for APP_KEY?

We can generate the value for APP_KEY by using the command `php artisan key:generate`.

3. In **Practicum 2.1 - Step 1**, by default how many migration files does Laravel have? and what are the migration files for?

By default, Laravel has 4 migration files. The migration files are used to create users, password resets, failed jobs, and personal access tokens.

4. By default, the migration file contains the code `$table->timestamps();`, what is the purpose/output of the function?

The function is used to create two columns, `created_at` and `updated_at`, which are used to store the date and time when the data was created and updated.

5. In the Migration File, there is a function `$table->id();` What type of data does the function return?

The function returns an `unsigned big integer` data type.

6. What is the difference between the migration results in the `m_level` table, between using `$table->id();` by using `$table->id('level_id');`?

The difference is that the first one will create a column named `id` as the primary key, while the second one will create a column named `level_id` as the primary key.

7. In migrations, what is the `->unique()` function used for?

The `->unique()` function is used to create a unique index on a column.

8. In **Practicum 2.2 - Step 2**, why does the `level_id` column in the `m_user` table use `$table->unsignedBigInteger('level_id')`, while the `level_id` column in the `m_level` table uses `$table->id('level_id')` ?

The `$table->unsignedBigInteger('level_id')` is used to create a column named `level_id` as a foreign key, while the `$table->id('level_id')` is used to create a column named `level_id` as the primary key.

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9. In **Practicum 3 - Step 6**, what is the purpose of the `Hash` Class? and what does the Hash program code mean `::make('1234');` ?

The `Hash` class is used to hash the password. The `::make('1234')` code is used to hash the string 1234.

10. In **Practicum 4 - Step 3/5/7**, in the query builder there is a question mark (`?`), what is the use of the question mark (`?`) of these?

The question mark (`?`) is used as a placeholder for the value that will be passed to the query.

11. In **Practicum 6 - Step 3**, what is the purpose of writing protected code `$table = 'm_user';` and protected `$primaryKey = 'user_id';` ?

The `$table` is used to define the table name, while the `$primaryKey` is used to define the primary key of the table.

12. In your opinion, where is it easier to use in performing CRUD operations to the database (DB Façade / Query Builder / Eloquent ORM) ?

In my opinion, it is easier to use Eloquent ORM to perform CRUD operations to the database. But, it depends on the situation and the needs of the application. Most of the time I would much prefer the query builder because it's more maintainable in the long run and easier to debug. It doesn't involve a lot of magic and it's easier to understand what's going on.

The code can be found here: https://github.com/elianiva/pwl_pos