Laravel Test

- 1. Service providers are the central place of all Laravel application for registering things. The Laravel app and it's core are registered via service providers.
- 2. There are already some service providers set by default but you can access them and creating new ones by typing php artisan make:provider.
- 3. Middleware is like a filter for HTTP requests. When you call one of them after a route, this one will check if a condition is validated. If it is, it will continue to the set route, if not, it will redirect you.
- 4. A Laravel event is an observer. An event lets you fire a set of listeners that are separated from one another. Like the other part of the test, an event could be a detection of a sent email, and the listeners could be: send a Slack message telling that the mail has been sent, or a automated response for a received mail.
- 5. Eloquent and Query Builder are used together mostly in the Controllers. Eloquent allows the user to use a model to refer to a table, so it simplifies the use of Query Builder when you have to fetch data from the database.
- 6. The Relationships listed on Eloquent are:
 - a. One To One
 - b. One To Many
 - c. One To Many (Inverse)
 - d. Many To Many (needs an extra table many many)
 - e. Has One Through (has 3 tables connecting one another)
 - f. Has Many Through (has 3 tables but only 2 connecting one another)
- 7. The Polymorphic Relations allows the target model to belong to more than one type of model with only one connection. The Polymorphic Relations are:
 - a. One To One
 - b. One To Many
 - c. Many To Many
- 8. The Collection is a class that allows working with arrays of data. Easily created using collected(...). (Laravel Collection != Eloquent Collection)
- 9. php artisan make:policy NameOfThePolicy
- 10. The Model Observers are used to group all the events into a single class. The Model Events are events provided by Eloquent that tells the Observer the model state (retrieving, creating, etc).

11. Depending on the relationship it goes like this:

```
public function model_to_connect()
{
    return $this->Relationship('App\ModelToConnect');
}
```

- 12. Queues allow you to defer the processing of a time consuming task, such as sending an email, until a later time. (Just as JS). Laravel provides a unified API for backend services.
- 13. Units tests are written from the programmer's perspective. They are use to check if a method is doing their tasks. Functional test are written from the user's perspective. They ensure that the system is functioning as users are expecting it to. 2 separate units tests may work, but when you mash them together something might break.
- 14. Lifecycle hooks are the defined methods which get executed in a certain stage of the Vue.js object lifespan. Vue explains it better: https://es.vuejs.org/images/lifecycle.png. They are methods very similar like the Model Events methods of Laravel that tells you the model state.
- 15. Events on Vue.js are triggered using v-on: or @. The v-on:event or @event accept the names of methods so they can be triggered.