Glade Assessment Test Answer:

**Task 1:**

The code assessment challenge is completed and below is the Github repository link.

**<https://github.com/Teejayblaze/glade-assessment>**

**Setting up:**

**—————-**

* Change the database settings in the .env file
* Change the mail settings as well but you can leave the current default setting as this works.
* To track mails sent after “company” successful creation
  + Mailtrap credentials:
    - Username: [surfsamson@gmail.com](mailto:surfsamson@gmail.com)
    - Password: Teejayblaze4kryst
* To migrate the tables: **php artisan migrate - -seed**
* Superadmin will be assigned default permission throughout the application lifecycle.

**Task 2:**

* The cloud server I would prefer will be DigitalOcean.

**Reason why:**

* DigitalOcean’s pricing structure is simple, easy to understand, and all inclusive. Transfer and SSD costs are already incorporated on the pricing and there is no additional cost for it.
* Digital Ocean provides 99.99% uptime guarantee for the droplets.
* Easy to use platform
* Fast create and deploy Ubuntu virtual machines
* Developer friendly
* Low and predictable costs

**Services Needed:**

* Droplets
  + Installation of Lemp stack on the droplet ubuntu server.
  + Lemp (Linux, Nginx, Mysql, PHP)

**Security of Service:**

* Droplet services are certificate protected and these certificate are signed with public and private key.
* The public certificate resides on the server and every request to the server is checked against the private key.

**Deployment Strategy:**

* First, I will set up the server by creating droplet and installing the necessary stack (Lemp) on the droplet
* Secondly, I will create a user for this droplet for management purposes.
* I will also ensure the project is hosted on a GitHub repository as private repo
* I will then establish a connection between the Github repo to my DigitalOcean’s droplet by using a DigitalOcean repo addons to enable me pull from the branch in question.
* After which, I will make all the necessary configuration for the application.

**Task 3:**

* When the branch is the default branch:
  + On staging: DEPLOY\_VARIABLE is staging-deploy-production.
  + On production: DEPLOY\_VARIABLE is deploy-production.