Micro services Architecture in Laravel

Task 3: Transformation of Monolithic Laravel Application to Micro service application is really a hard and delicate process. The brake down of services in this process is so delicate, if any mistake been made it will take hour’s to fix. Before breaking the service I must have proper knowledge of monolithic application. Monolithic Architecture is something where all the component deployed together as a single unit. All component and modules are inter connected. Any changes or update in one part can be the cause of rebuilding the application again.

Monolithic to Micro service breakdown:

1. Understand the monolithic and micro service architecture.

2. Strength and weakness of both architecture.

3. Understand the database in monolithic and for micro-service make a design based on its requirement a single database for entire project or a single database for each module.

4. Make enter connection between each module. Where I have to connect using relational ORM and as well as have to mention which data is connected to database/module to which database/module.

5. For each module make a separate database and micro service.

6. For a public purpose website where hit count will be high use load balancer if needed.

7. We can use different image and video storage like AWS s3 bucket for storing video and image content if needed.

8. All the services will connect through API’s and path location.

There are many other tools and services we can use based on the software requirement. I only mentioned those I used and required at my previous project. And this system can break down for many reasons like: fault of requirement analyzing, api integration, path location problem for different services etc. for api’s integration I prefer Laravel jwt package. Docker/Kubernetes didn’t used by me at any of my previous project. They might be useful but I don’t have experience in this. I only suggested what actually I used or used by my team for micro-service at our previous projects.