EPITECH. TECHNOLOGY

TIME MANAGER

DEVOPS

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In order to gain in speed, safety and reliability, you must implement **C**ontinuous **I**ntegration and automate the deployment of your application.

Firstly, your application must work in **Docker** containers. It is therefore necessary to set up a microservices architecture. So you need (at least) one container for the front, one for the back, and one for the database.

Think about the persistence of the data.

Secondly, your application must be hosted on a server available on the internet.

You have the choice of the host ; head toward free solutions. You can also host your server yourself as long as it is available online.

Finally, when you modify your repository, pipelines must be run to compile and test your project, build your Docker image(s), and deploy this new version automatically to your server.

Several solutions are available like Travis CI or Azure Pipelines.

These 3 previous requirements are relatively basic but to go further, you can look at **Kubernetes** or monitoring tools like **Kibana** with Elasticsearch or **Grafana** with InfluxDB.

In addition, for large projects with many collaborators over the long term, it is also worthwhile to look at **SonarQube**.

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