|  |  |
| --- | --- |
| A picture of a winding road and trees  Background of TAVSSOnContainers  Background | Background  Ahmed Khalil  Graduation Project |

* **Microservices must be implemented using Agile Process because it’s an Incremental Environment**
  + Applying the Agile SCRUM framework as a core of development processes.
  + Using the Product Backlog and divide it to many sprints Backlogs for **Incremental** working.
  + Every Backlog contain a Coarse-grained service Analysis such as user stories
  + Packing every delivery of the project directly to the release process for deployment.
  + Making Azure DEVOPS the platform of managing the development process.
* **Using DEVOPS plans and tools to manage configuration and control quality**

|  |  |
| --- | --- |
|  | Deliver value to users faster using proven agile tools to plan, track, and discuss work across the teams. |
|  | Get unlimited, cloud-hosted private Git repos and collaborate to build better code with pull requests and advanced file management. |
|  | Build, test, and deploy with CI/CD that works with any language, platform, and cloud. Connect to GitHub or any other Git provider and deploy continuously. |
|  | Test and ship with confidence using manual and exploratory testing tools. |
|  | Create, host, and share packages with team, and add artifacts to CI/CD pipelines with a single click. |
| **نتيجة بحث الصور عن ‪Circle CI logo‬‏** | allows us to be confident in the software we build before taking it out for a drive. |
| **صورة ذات صلة** | The only independent container platform that enables organizations to seamlessly build, share and run any application, anywhere—from hybrid cloud to the edge. |
|  |  |

* **Using the .Net Core for Microservices Environment as a lightweight server running on docker containers.**
* **Using Angular for web platform and Android vs IOS for phone platform.**
* **Using RabbitMQ as the service bus to serve events.**
* **Using SQL Server and MongoDB for databasing using single database per service design pattern**
* **Using OCELOT middleware for implementing API Gateway Design Patterns.**

