*Strangler Pattern*

*The Strangler pattern involves replacing parts of a monolithic application with microservices over time.*

*To implement strangler pattern, we need to follow 3 steps that are as follows:*

* *Transform*
* *Co-exists.*
* *Eliminate*

*Features of the Strangler Pattern:*

*The Strangler pattern offers several essential features:*

* *Gradual Migration: This pattern enables a step-by-step migration from a monolithic application to microservices. It allows organizations to replace specific functionality or modules incrementally.*
* *Coexistence: During the migration process, the monolithic application and microservices coexist, ensuring uninterrupted system functionality.*
* *Strangling Behavior: The Strangler pattern gradually replaces components or modules of the monolithic application with microservices, leading to the eventual replacement of the legacy system.*

*Advantages of Strangler Pattern*

* *Incremental Migration: This pattern mitigates risks associated with complete system rewrites and minimizes disruptions by allowing a gradual migration process.*
* *Flexibility: Organizations can independently refactor and update specific parts of the system based on business priorities.*
* *Coexistence: The monolithic application and microservices coexist harmoniously, ensuring the system remain operational during the migration.*

*Drawbacks of Strangler Pattern*

* *Complexity*
* *Data Consistency - requiring careful management to ensure consistency.*
* *Increased Network Calls - The introduction of microservices can lead to an increase in network calls*
* *Dependency Management*

*Which components should be strangled or refactored first?*

* *Straightforward components first instead of complex.*
* *Starting with a component that has strong test coverage and little related technical debt.*
* *Start with a component that has scalability needs.*
* *Start with a component that needs to be deployed much more frequently due to frequent business requirements.*