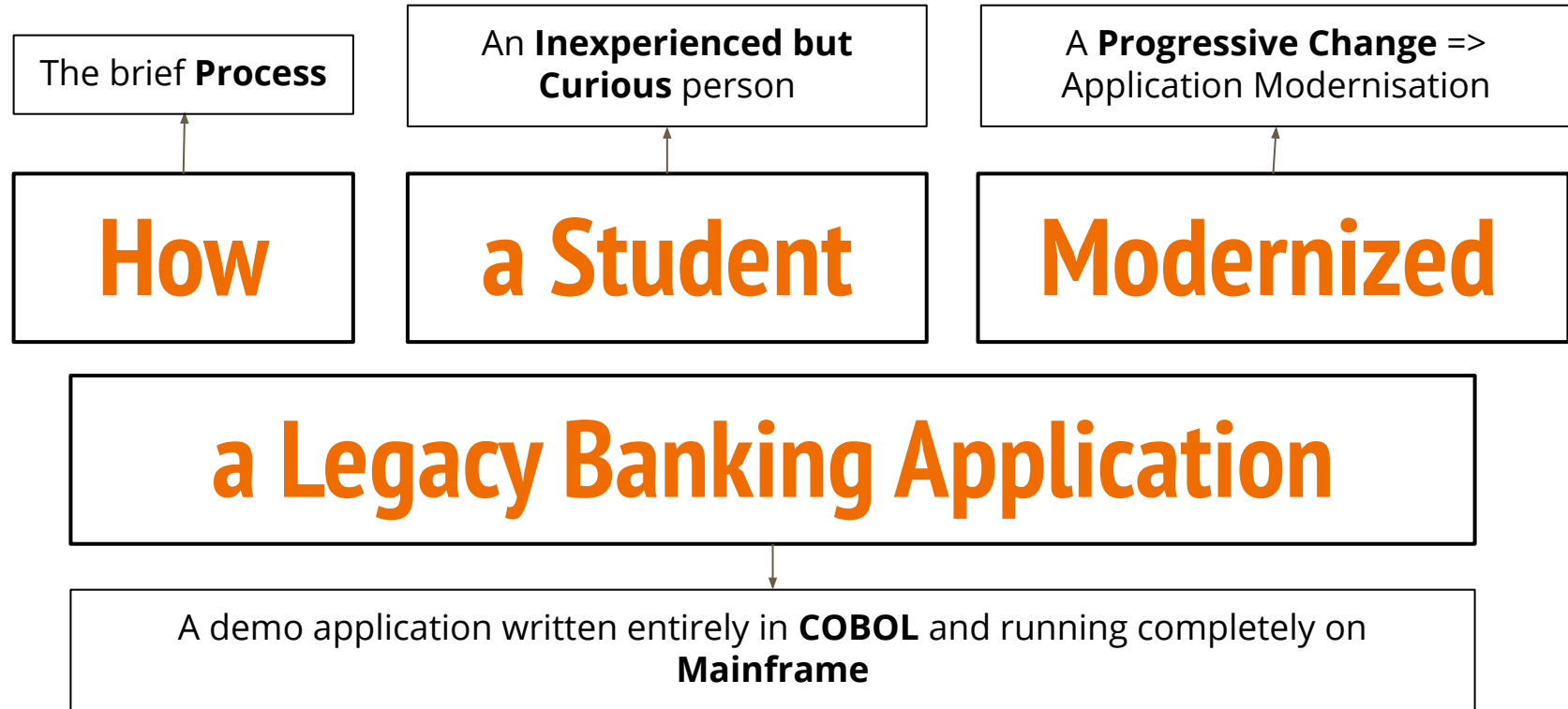

How a Student Modernized a Legacy Banking Application

Misty Decker
Micro Focus

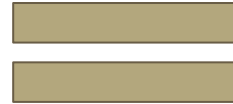
Sudhanshu Dubey
Guru Nanak Dev Engineering College



Why Application Modernisation?

For business critical applications **change** should:

1. be gradual.
2. be carefully planned and precisely controlled
3. have low cost and very low risk.

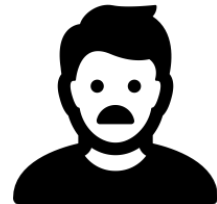


**Application
Modernisation**

How COBOL Modernisation?



1. Analysing the COBOL Application.
2. Identifying services candidates
3. Isolating and exposing them as services
4. Connecting them to a new, modern UI



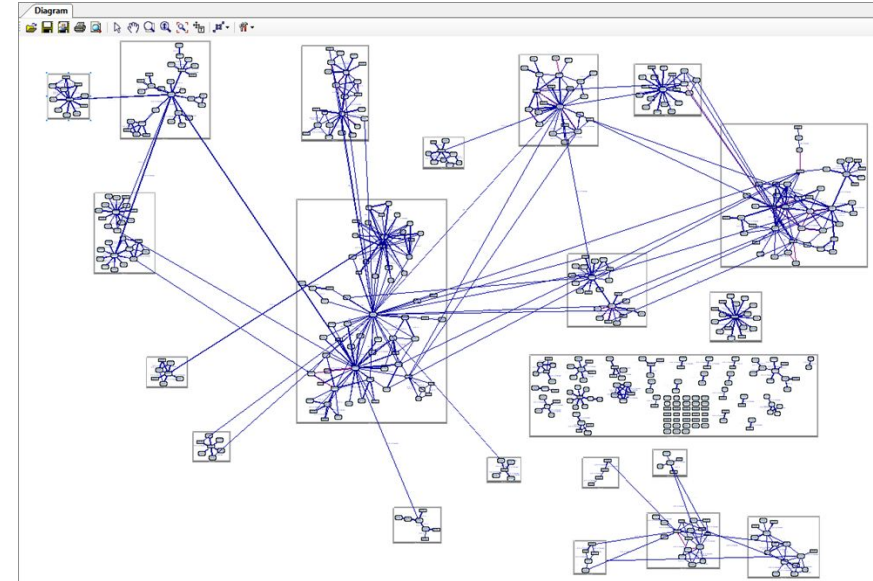
Analysing the COBOL Application

1. Analysing means:
 - I. Understanding the architecture of the code.
 - II. Extracting business rules.
2. Business rules are advanced way of documenting the code with additional info like the overall action that a set of lines perform.
3. This is done using [Micro Focus Enterprise Analyzer](#).
4. For more info watch [this video](#).



Identifying Services Candidates

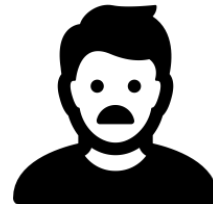
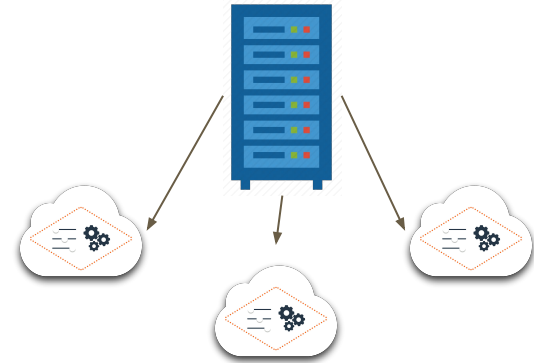
1. Candidates are identified based on:
 - I. high business value
 - II. low degree of required code changes
2. The result should be minimal required testing, increased speed, and lower risk.
3. We can use Call Map, Source Dependencies, and Data dependencies views, etc provided by Micro Focus Enterprise Analyzer to pick the candidates.



Micro Focus Enterprise Analyzer call map with automatic clustering.

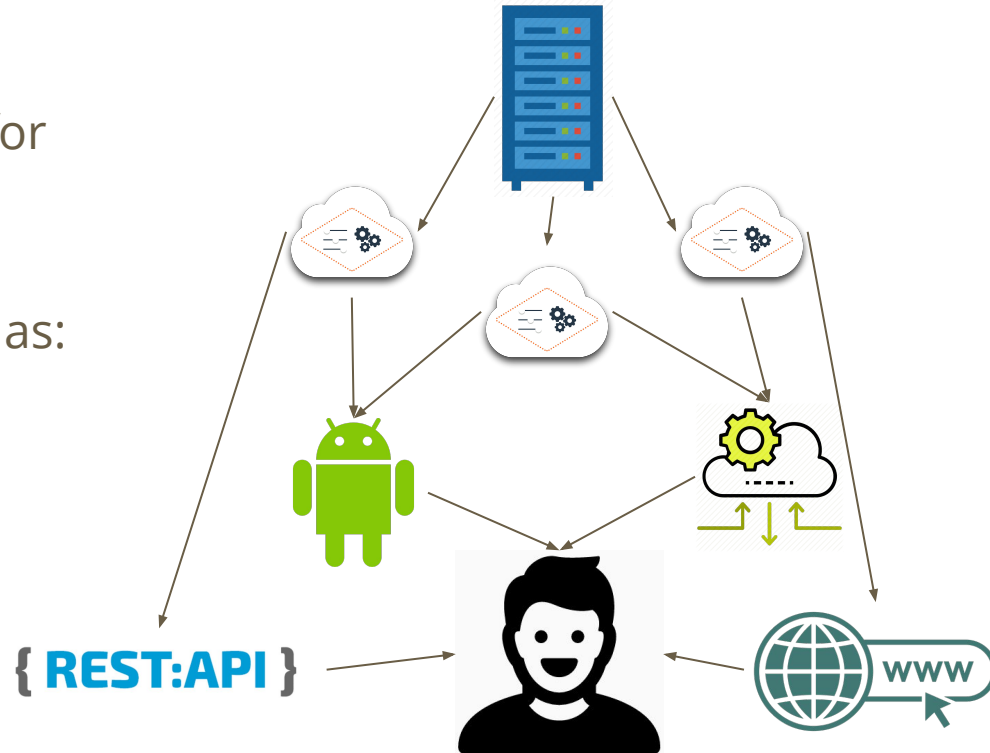
Isolating and Exposing them as Services

1. Once the service candidate is clearly defined, the needed resources are gathered, and they are safely extracted and isolated.
2. [Micro Focus Enterprise Developer](#) is very helpful in this.
3. The service's resources can be deployed together with the rest of the workload monolith or onto separate compute instances.



Connecting them to a New, Modern UI

1. Next, we create the interface for the services.
2. We have multiple options to create and expose the service as:
 - i. Web service
 - ii. RESTful service
 - iii. Android apps



Conclusion

It's a well defined process

COBOL Modernisation is a simple and doable process ...

There are excellent tools available

... and it's URGENT!

FDIC chief cites legacy systems as 'No. 1' concern for banks