

Implementation: FASTBIZ



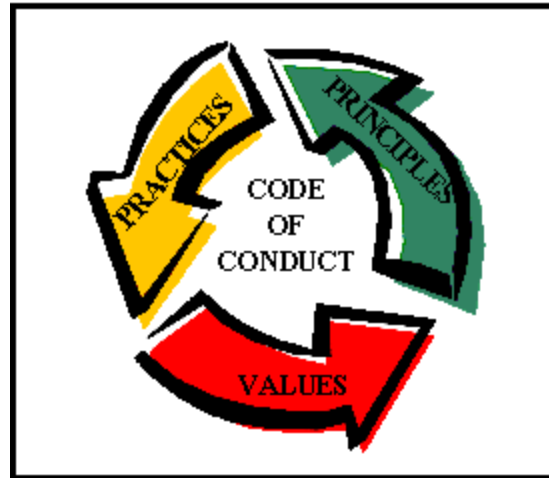
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1. FASTBIZ
unification



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FASTBIZ-CLOUD vision



Our

**SOCIAL
ACCOUNTABILITY**

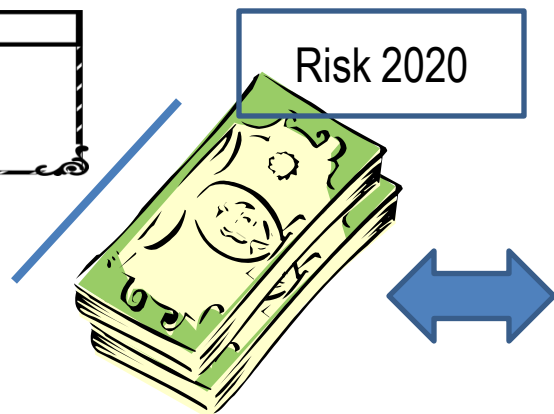
Team AOEC, Dec 22nd 2020



3. Subsistence and
Emergence



2. Purchase &
Payment support



Mitigating System Inequalities

(Our NEXT steps to the current journey of a customer, that is to inquire, to ascertain, to purchase and to use or consume)

1. Subject for this challenge

2. Scope for this challenge

- Via this Hackathon we will focus on the following
 - 1. Mitigation of system inequalities to help revive the purchase and payment sector in times of economic crisis and insufficient cash flow
 - 2. Extension of Debit Cards by connecting them to a FASTBIZ system, where this permits a Debit Card holder to use funds from an account or to use coupons from the FASTBIZ system to make payments

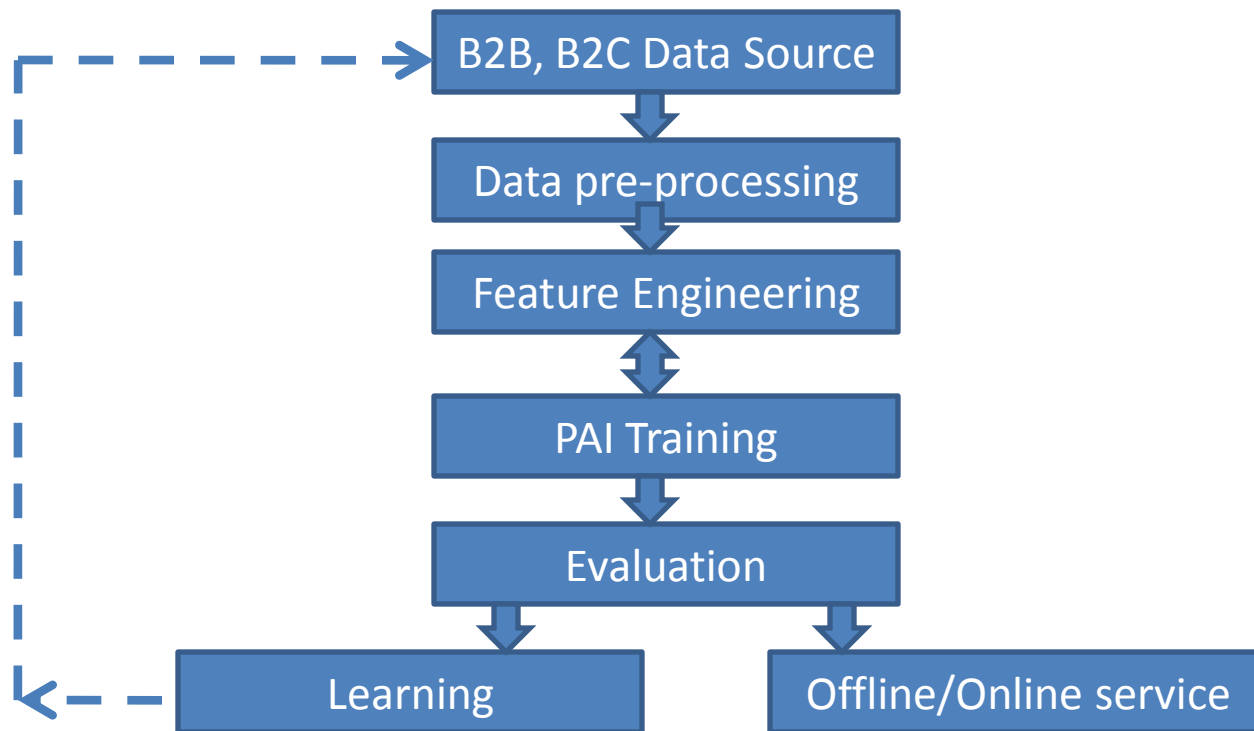
Nationalism, Sustainable
Development and
Growth

Background for this solution

- Design a System that leverages efficiencies and benefits from data being written to and accessible from a FASTBIZ Cloud
- Like the Bitcoin framework, which it bases its problem solving on, it expects to include a solution that:
- Mitigates system inequality and connects “still to be clustered banks”, B2B, B2C silos
- Makes it easier for B2B, B2C sectors to transact
- Makes it easier to operate across credit lines / systemic boundaries for businesses, organizations, and customers
- Enables customers to purchase & pay in a single way for business services from different businesses and organizations in times of cash insufficiency
- Improves systemic interaction across governments and government agencies like banks/endpoints in banking clusters
- Enables use of FusionFabric Cloud elements to systemically solve some of the implementation problems affecting financial transactions

3. How we will leverage machine learning

- **The FASTBIZ solution (at the AI level)**
- Highlights of the implementation using Machine Learning Platform for AI
- 1. Create a Project/Solution called FASTBIZ Cloud framework
- 2. Carry out Data Preparation (Create and Configure the B2B, B2C Data Sources or Data Set details)
- 3. Plan the Workflow using the FusionFabric Cloud and unified FASTBIZ Cloud



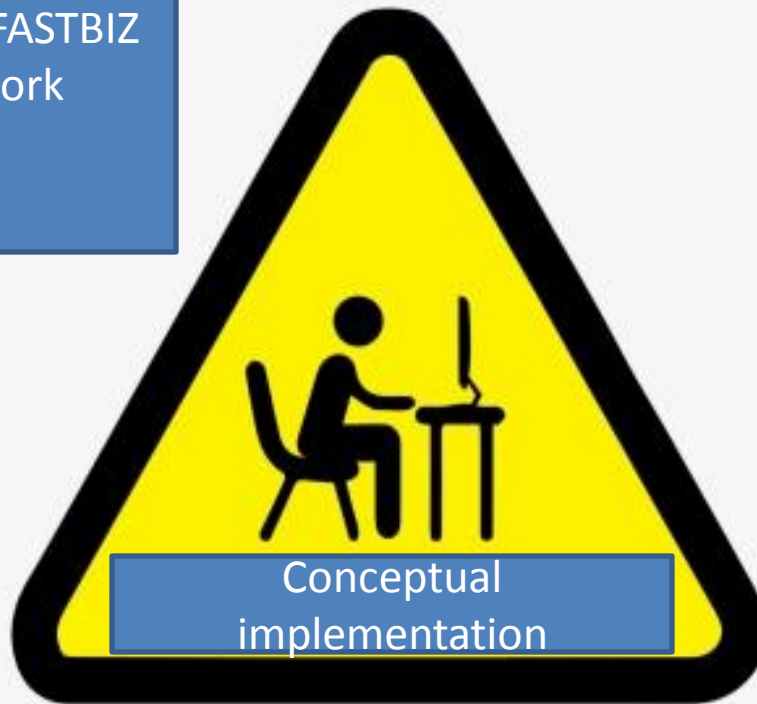
3. How we will leverage machine learning

- **The FASTBIZ solution (at the AI level)**
- Highlights of the implementation using Machine Learning Platform for AI
- (continued)
- **3.1 Data pre-processing:** Pre-process the data (using SQL scripts with data type conversion, filter based feature engineering, normalization & split) to generate model training sets and model prediction sets
- **3.2 Data visualization:** Feature engineering (Statistical Analysis) to visualize the data to obtain information > Extend support for purchase & payment via FASTBIZ
- **3.3 Algorithm modeling:** Use model training sets (Binary Classification to Logistic Regression) to perform algorithm modeling and to generate a training model
- **3.4 Model evaluation:** Use the trained model (Recommendation > Prediction and Evaluation > Binary Classification Evaluation) to make predictions of the model prediction sets, in order to evaluate the precision of the model

4. Implementation highlight

Vision to use the Machine Learning Platform for AI via Alibaba & FusionFabric Cloud enabled Workflows

Deployment of a FASTBIZ
Cloud framework



Connecting the dots

1. Django Architecture to create the web application framework
2. Use of Python for IaaS instantiation and bucket uploading
3. Use FusionFabric Cloud services & API(s) for B2B, B2C workflows
4. Availability using Alibaba's Cloud computing platform
5. **Processing and Feature engineering** using Alibaba's Machine Learning platform
6. **Reporting Bot** (using a Python library for Twitter)
7. **AutoScaling of the FASTBIZ CLOUD** (using concepts of the Apache Hadoop/Map Reduce Programming Model)

5. Conceptual implementation

- (Knowing that some parts of the implementation depends upon the privileges offered by FusionFabric and Alibaba)
- The FASTBIZ CLOUD facilitation can be done via stages that involve
- **1. Design & Development of “n” number of FASTBIZ CLOUD nodes** for FASTBIZ systems (using the Django Architecture to create a web application framework)
- **2. Creating of a FASTBIZ-Stream or Client-ID for a FASTBIZ CLOUD node** (using the Django Architecture and Python for launching an Alibaba/IaaS/FusionFabric Cloud instance and thereon using this to upload information files into data buckets in the Cloud)
- **3. Registering and updating of (FASTBIZ framework/component) FASTBIZ-ID information for this FASTBIZ Stream or Client ID** (using the Django Architecture and Python for launching an Alibaba/IaaS/FusionFabric Cloud instance and thereon using this to upload information files into data buckets in the Cloud)

5. Conceptual implementation

- **4. Reading and publishing of FASTBIZ Coupon Information (FCI) from FASTBIZ systems and/or end nodes** (that use FusionFabric Cloud services & API(s)) and sharing of this information (via Alibaba's Cloud computing platform)
- **5. Processing and Feature engineering of Purchase & Payment influencers for a Stream or Client ID/FASTBIZ-ID** (via Alibaba's Machine Learning platform /FinAstra's FusionFabric Cloud and supported interpretation & learning of the uploaded data)
- **6. Deployment of a FASTBIZ Reporting Bot** (using a Python library for Twitter to send simple and intelligent tweets to FASTBIZ systems/FASTBIZ-ID clients)
- **7. AutoScaling of the FASTBIZ CLOUD "n" nodes framework** to meet the performance requirements and to scale down capacity when FASTBIZ-Stream or Client ID and FASTBIZ ID related Data or Purchase & Payment workload is less to save costs (using concepts of the Apache Hadoop/Map Reduce Programming Model)

Bot messages for FASTBIZ

+ **FASTBIZ Stream or Client ID/details (for Alibaba/FusionFabric):**

+ **FASTBIZ ID/details:**

+ **Purchase & Payment indicators:**

Need for Forward Lifetime services/ Extended debit or credit services, Need for secure transactions, Need for Remedial support, Need for Vectorized services

+ **Purchase & Payment support projections:**

For example assistance for Non performance, inadequate capital and limited Sustainability or Extended Debit Card services

+ **Associated FASTBIZ Coupon Information (FCI):**

Details on Open coupons/Unique coupons/Specific coupons/**Social cause coupons/Savings on purchase coupons/Relief and Rehabilitation coupons/Green Zone coupons**

+ **Associated Purchase & Payment influencers:**

Memorandum of Business Association/Fast Track facilitation with Pulse trending/**FASTBIZ Investment, Management and Consultation**