Main Projects
2013/2014

Observatório UFF

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Federal Fluminense University

- 52 years old
- + 50,000 students
- + 5,000 teachers
- 1st Brazilian Federal University that adopted Santander TUI
- Planning to be the biggest Federal University in Brazil
TUI’s Benefits to UFF

What services do I have in TUI?

- Public Transport Integration in Large Scale (~ **4,000 travels / day**)
- Payment and Access in University Restaurants (~ **7,000 students / day**)

![TUI Card Image](image-url)
TUI’s Benefits to UFF

What services do I have in TUI?

- Access Control
- Secure Identification
Observatório UFF

- Born in 2011
- 8 people
  - 3 System Analysts
  - 4 Developers (Java + Android + Ruby on Rails)
  - 1 Application Server Administrator (ASA)

OK, but **What really motivate us?**

The opportunity to research and develop **new solutions** to change the way that our user (student) interacts with UFF
Research Themes

What we like to do?

++ Operational tasks daily in TUI / UFF
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What are we doing now?
Digital Signature of Documents

- Development of Document Repository
- Process Mapping
- UFF’s Certification Authority (CA) Implementation

http://code.google.com/p/projeto-siga/
Mobile Payment with NFC

- Learn the technology itself and understand the better Business Model to POC
- Evolve the Mobile version (UFFMobile) to NFC-capable

www.uff.br/uffmobile
Proof of Concept with PopWings

- Contacting PopWings managers (Laurence)
- Studying the solution
- Planning the integration and communication
- NFC? Mifare? Facebook integration? How?
Future Projects
2014/2015
What we want to do?
e-Passport integration to NFC

- Study ICAO format (e-Passport)

- Brainstorm about the solutions possibility:
  - NFC reading
  - GPS information
  - GPRS communication
  - Facebook/PopWings association
  - Digital Signature
  - Payment? Why not?
  - ...

INTERNATIONAL CIVIL AVIATION ORGANIZATION
A United Nations Specialized Agency
Big Data applied to SmartCards

- Work on UFF’s Hadoop Cluster

- Research + Brainstorms about the possible new questions, like:
  - What are the behavior of our user?
  - What is the relation between:
    - The research university data (papers, etc) with the SmartCard usage in payments?
    - The social classification (US$), grades, frequency and usage of the debit feature of SmartCard?
  - What can we suggest to our user to do (or interact with) based on it profile? (1 to 1 Marketing, Google like)
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