

Program vjernosti/nagrađivanja kupaca putem mobilnih telefona: Lantea Grupa PremiumClub

HrOUG 13.| Rovinj | 2008

LANTEA GRUPA **Premium**Club:

Leo Mršić | Lantea Grupa Tibor Čuturilo | Tekstilpromet

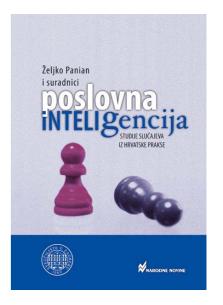
Marin Maletić | Lamaro (gost)



Leo Mrsic

- Lantea Group CEO (1000+ employees)
 - largest regional (Croatia, Slovenia, Bosnia, Serbia) textile retail company (170+ stores)
- M.Sc. in data mining
- co-author of two books in data mining (in Croatian)







Tibor Cuturilo

- Tekstilpromet CIO (300+ employees)
 - largest regional (Croatia, Slovenia, Bosnia, Serbia) textile wholesale
- experience in business system development and implementation
 - largest regional textile wholesale



Marin Maletic (guest)

- Lamaro CEO
 - experience in marketing solutions and mobile marketing
- pioneer in mobile marketing in Croatia
- several succesful projects in portfolio



Presentation

- Introduction (Leo Mrsic)
 - loyalty programs (history, development)
 - Lantea Group ideas
- Lantea Group PremiumClub (Tibor Cuturilo)
 - technical aspect
 - real life experience
- Conclusion
 - Q&A



Customer loyalty

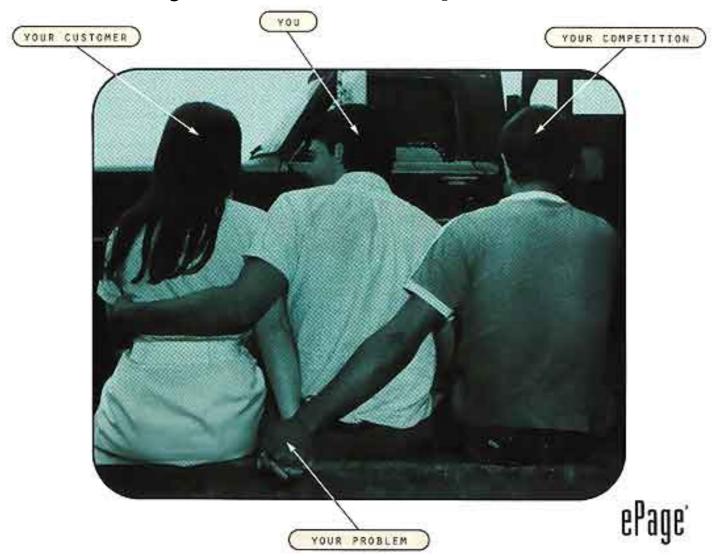
I work for money,



If you want loyalty, get a dog.



Can you see a problem?





Loyalty = wisdom

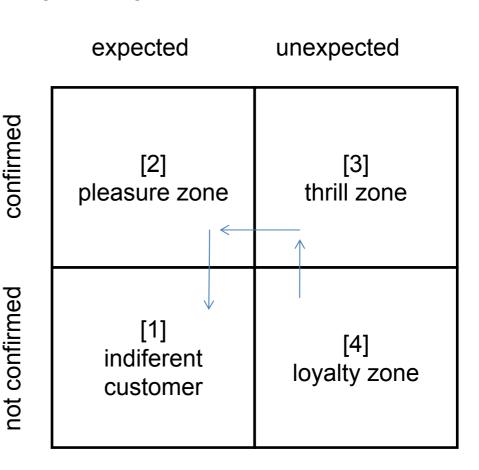
- loyalty after loyalty
 - awarness about personal data
- bull weight case study
 - individual errors were bigger than results average
- lost submarine case study
 - different discipline experts give very precise average location

source: James Suroviwecki "Wisdom of masses"



Customer loyalty network

 how customer expectation affect shopping pleasure, thrill and loyalty





Loyalty <> profit

 "As a customer's relationship with the company lengthens, profits rise. And not just by a little. Companies can boost profits by almost 100 percent by retaining just 5 percent more of their customers" (F.P.Reichheld)



History

- originally started in Germany in 1950s linked with governmental price restrictions in some industries
 - 1950 S&H Green Stamps give away shopping stamps in vegetables and fuel stores with possibility for trading stamps for goods
- first modern loyalty program was launched in 1981 by American Airlines
 - soon after it has been copied by many



Loyalty program - advices

- be clear in defining value added by your program and communicate that value to customers
- use collected data for customized offers which can show you as a different competitor and can be highly accepted by customers
- be prepared to support project to the end (with careful adoptions to project only if neccessery)



Customer loyalty circle





PremiumClub

- way to communicate to all customers in wide company
- way to reward loyal customers
- way to collect data about customers and their shopping behavior
- way to promote modern, technology oriented company values as service to customers



PremiumClub

- in touch with techology even in most complicatd (textile) retail
 - customer needs to see and feel clothes
- in touch with urban way of life
 - minimum boundaries
 - flexibility in signing in
 - flexibility in accumulation of points
 - flexibility in usage of points



PremiumClub

- additional member benefits
 - on demand reward programs (seasonal)
- status symbol
 - unique club membership

Lantea Group: PremiumClub :)

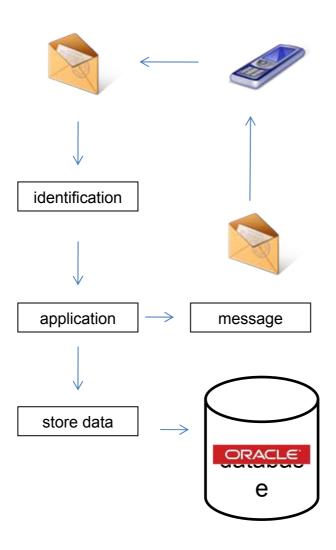
"Lantea Group PremiumClub: club that fits you perfectly"





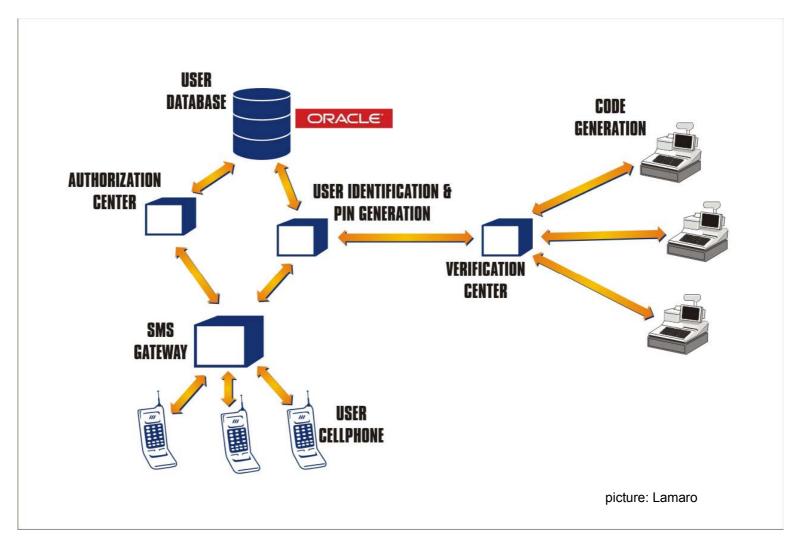
System in brief







System in brief





Solution technical details

- GSM gateway
- mathematical model for coding and code supervision
- system for receiving, first level analysis and data storage
- system for second level analysis, confirmation and data storage
- system for third level data analysis and unique code
- error report system
- system for supervision and points usage
- analyst report warehouse with all kind of reports



Solution - partners









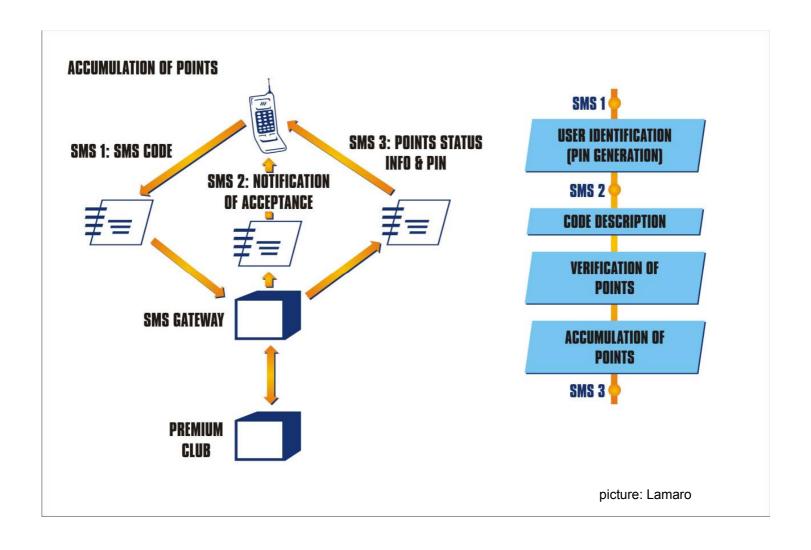


Proces

- Registration
- Accumulation of points
- Points usage
- System supervision



Registration





Accumulation of points

- Point of sale (POS) code generation
- Sending code through SMS
- Analysis and storage center
- Confirmation and notification



POS code generation

- Unique identifier of the POS receipt
- String length
- 36 character code, later modified
- 4 character sets, control character, total of 13 characters



SMS sending

- Sending to GSM providers
- Forwarding to call center

Call center - registaration and processing

- Formal validity
- Initial confirmation
- Forwarding to central system for final check
- Update of points

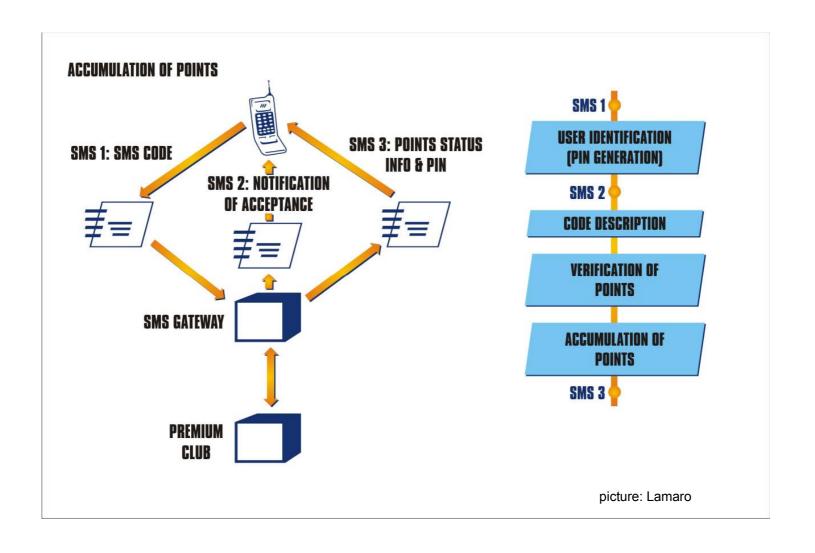


Final control – central system

- Formal validity
- Content validity
- Final confirmation



Accumulation of points





Accumulation of points

Club membership confirmation



Receipt, code and confirmation message



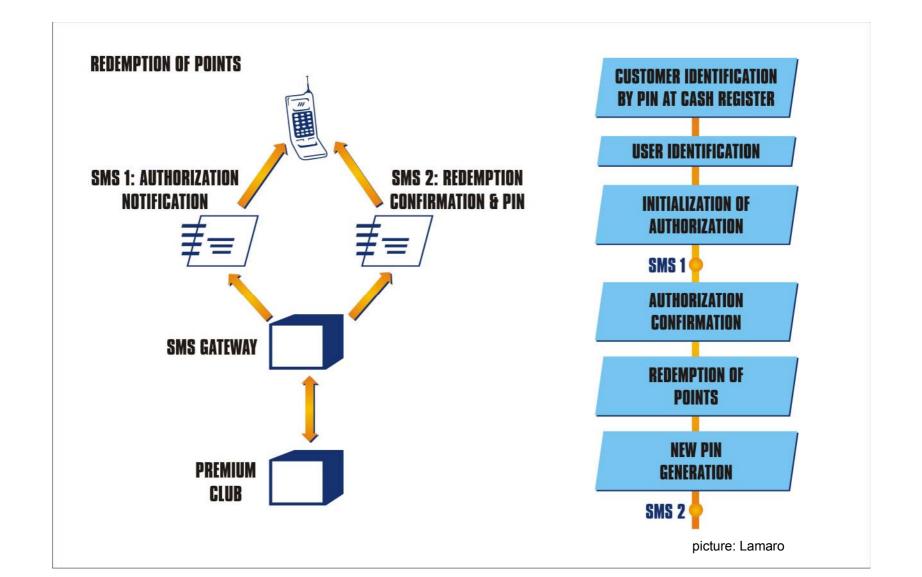


Points usage (redemption)

- POS cashier initiate process
- Call centar sending PIN code to confirmation center and waiting for activation code
- POS cashier enters activation code in POS
- Server transaction details storage



Points usage





System supervision

- Formal supervision code structure, special signs (0,0,8,g,L,1)
- Content supervision
 - comparing data from SMS to actual data in system
 - fraud analysis (heavy or abnormal usage)
 - other

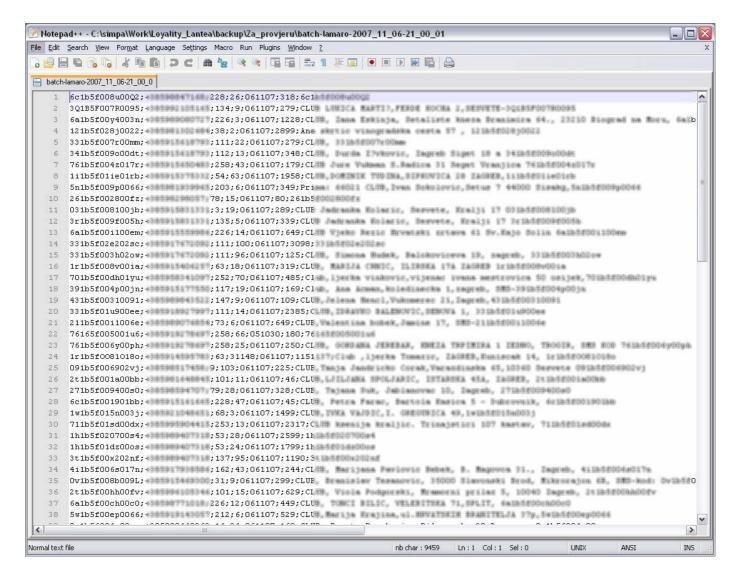


System scrennshots

- Python environment
- PL/SQL environment
- Oracle Discoverer / OBI EE Reporting



ASCII data collection





Python source

```
Notepad++ - C:\simpa\Work\Loyality Lantea\loyality.py
                                                                                                                     File Edit Search View Format Language Settings Macro Run Plugins Window ?
loyality.py
  169 Eclass Database:
            # Standard
           def init (self,username,password,database):
                self.username = username
                self.password = password
                self.database = database
          def open(self):
               self.conn = cx Oracle.connect(self.username,self.password,self.database)
                self.cur = self.conn.cursor()
           def close(self):
                self.cur.close()
                self.conn.close()
            def commit(self):
               self.conn.commit()
            def rollback(self):
               self.conn.rollback()
            def nextval(self,seqname):
               self.cur.execute('select %s.nextval from dual'%seqname)
  187
                return self.cur.fetchall()[0][0]
            # Additional
  188
            def insertiraj slogove(self,datoteka):
  190
               for dict in datoteka.parsed data:
                   id = self.nextval('LY SEQ')
  192
                   dict['id']=id
                   self.cur.execute("""
                       INSERT INTO
                           LY COLUMN, LY SK RAC, LY SATISFAC.
                           LT TIMOS SAC, LT NAPOMENE, LT STRONE, LT NOR COVORGO
                           VALUES
  198
                           (:id, :telefon, 'U',
                           :orgjed, :br rac, TO DATE(:datum rac,'DDMMYY'),
                           :iznos_rac,:korisnik,SYSDATE,:kod)
                   """,**dict)
                   # Azuriranje begin i end id-a
                   if datoteka.ly_id_begin is None or datoteka.ly_id_begin>id:
  204
                       datoteka.ly id begin = id
  205
                   if datoteka.ly_id_end is None or datoteka.ly_id_end<id:
                       datoteka.ly id end = id
```

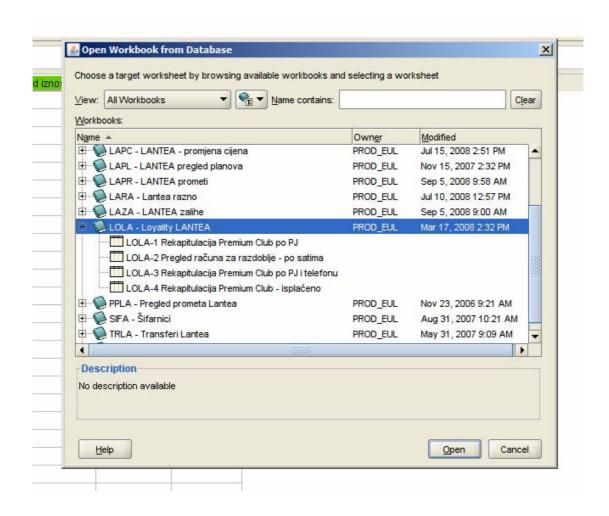


Python source

```
Notepad++ - C:\simpa\Work\Loyality_Lantea\loyality.py
                                                                                                                       File Edit Search View Format Language Settings Macro Run Plugins Window ?
 loyality.py
         import cx_Oracle
        import os
       import time
    4 import random
    5 import shutil
    7 from config import *
   10 # Defaulti - iz config.py
   11 DB USERNAME = 'projekt'
   12 DB PASSWORD = 'projekt'
   13 DB DATABASE = 'lrob9.world'
   15 PATH_ZA_PROVJERU = 'C:\\transfer\\za_provjeru'
   16
       PATH PROVJERENI = 'C:\\transfer\\provjereni'
       PATH ARHIVA = 'C:\\transfer\\arhiva'
   19 PATH_ISPLATA = 'C:\\transfer\\isplata'
   20 PATH ARHIVA ISPLATA = 'C:\\transfer\\arhiva isplata'
   21 """
   23 # PUTANJE:
   24 # Datoteke za provjeriti
   25 # Provjerene Datoteke
   26 # Arhiva
   28 #Struktura filea:
   29 #KOD - izvorni kod
   30 # TELEFON -broj mobitela
   31 # ORGJED -sifra org. jedinice (ducana)
   32 # BR_RAC -broj racuna
33 # DATUM_RAC - datum racuna u formatu DD MM.YYYY
   34 # IZNOS_RAC - zaokruzeni iznos racuna
   35 # KORISNIK - ako raspolazete podatkom o imenu i prezimenu osobe,
   37 def nvl(value, default):
   38 占
          if value is not None:
 4
Python file
                                                                    Dos\Windows ANSI
```

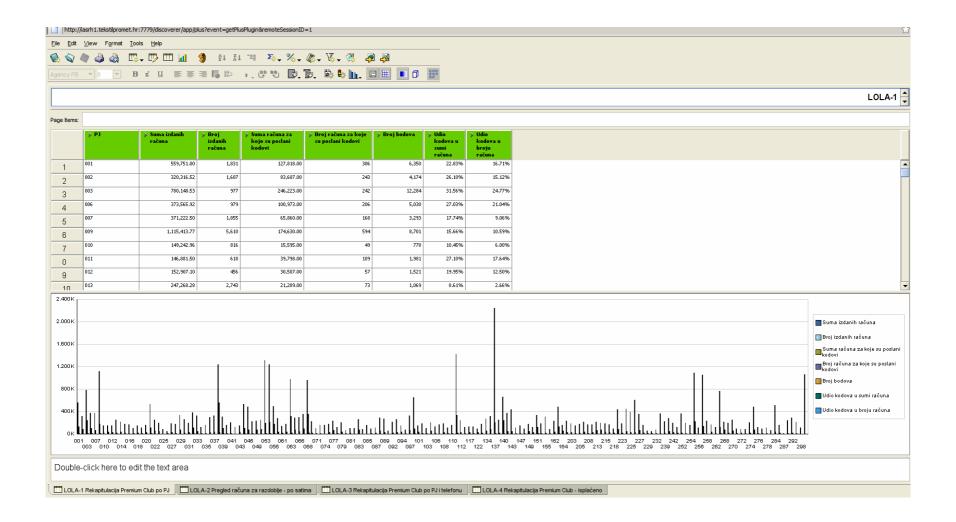


Oracle Discoverer 10g



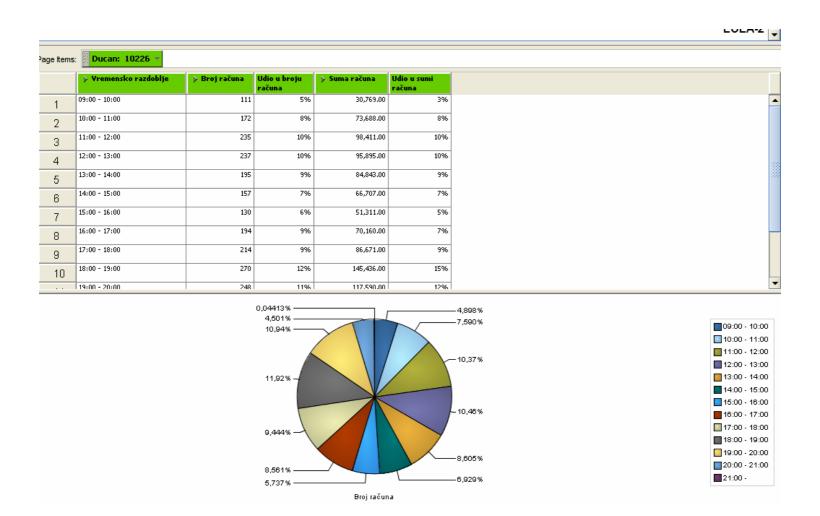


Reports





Reports



Experience, further reference

- code structure problem (14 digits)
- time segmentation (15 days from date of purchase)
- "points on points" situation
- fraud analysis
- technological reorganisation (problems with two or more data sites)
- personalisation



Conclusion

- commercial value
- technology
 - aiming for simple architecture
 - partner support quality



Thank you!

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Q&A

Discussion



