

# Mobile banking with PayPal

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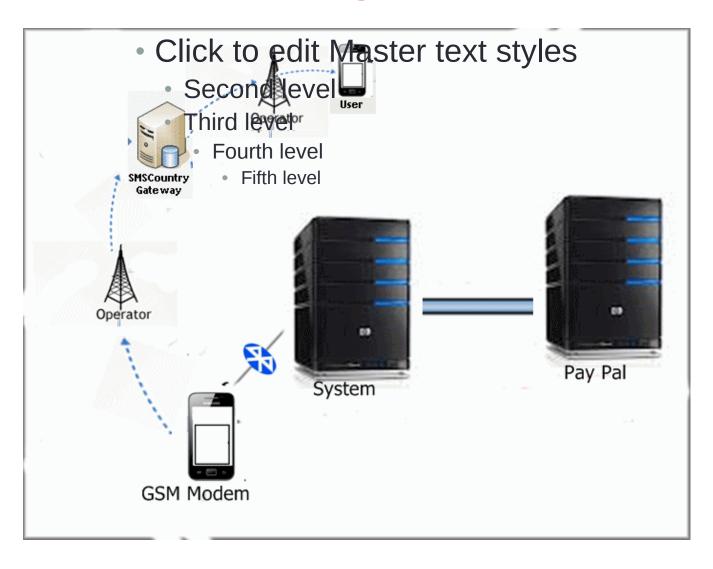
## Overview

- A brief description of the project
- User interface specification
- Object oriented analysis (OOA)
- Object oriented design (OOD)
- Demo of the prototype

## A brief description of the project

The aim of the project is to provide an ability to pay the third party, by means of Short Message Service, for the unbanked.

# Architectural Design Review



## User interface specification

# The end user will generate an SMS message that will determine the transaction type to the system.

#### Send => New money transfer function

- Statement => Send a user's banking account statement
- Change => Update a user's account details

# The administrative user will use a web based program that provides functions to:

Suspend user accounts

Update banking charges

Generate SMS messages to the end users

# **End User Input**

 Click to edit Master text styles Second level 14:12 Third level Fourth level Fifth levelnd 2000 options OK cancel

# **End User Output**

### **Scenario**

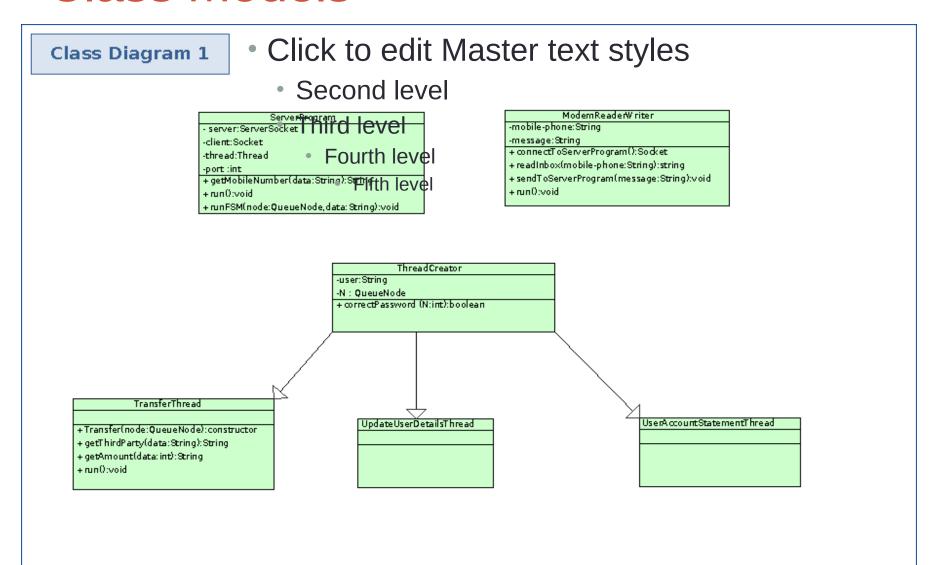
A user has requested the account banking statement.



## **Technologies**

- Linux Ubuntu 12.04 and Windows 7
- MySQL 5 and Apache 2.4
- Eclipse and NetBeans Java Developer Tools
- SMSC or SMS Gateway Emulator
- Android & Symbian S4O Device Emulators and SDKs
- Java J2EE and PhP Scripting Language

## Class Models

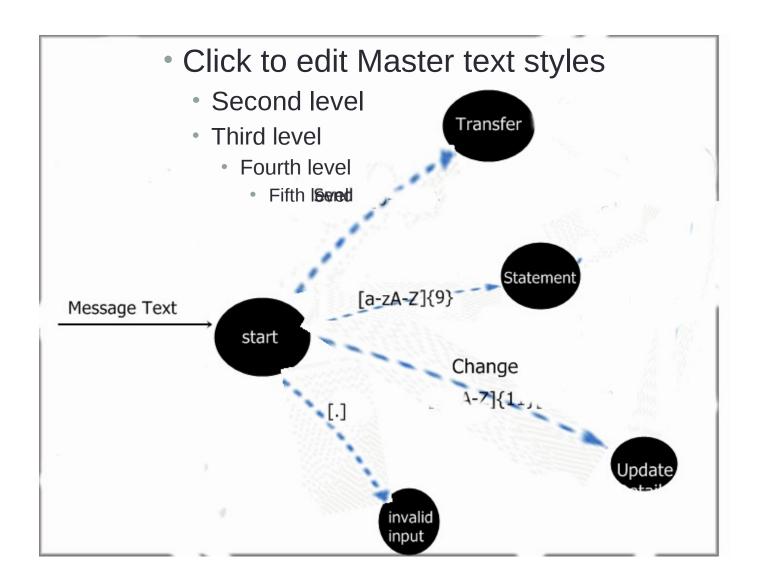


# Low Level Design

This program waits for the client socket to be initiated from the Modem daemon.

```
Port = 13
ServerSocket server = new ServerSocket(13)
Socket client
Queue Transaction-list, Transfer-list, Update-list
Thread thread:
void run
while(true){
      client = server.accept()
      data = readData from the socket client
      user = extract mobile number from the data
        loop through the the lists:
             IF user exits on either the Transfer or Update -list:
                 On the node N where the current user is situated, set the
                 data variable with the data that has been read from the
                 accepted socket
                 // i.e N.data = data
                 Set N.ready = true
      if the user was not found on both lists:
             CreateThread (user,data)
```

# Low Level Design (Cont.)



# Project Plan

Term 3	Week 1 - 2	Week 2 - 5	Week 6
	Construction	Implementation	Documentation

## References

"Prototyping Definition" PC Magazine, Retrieved 2012-05-03

OZEKI NG SMS Gateway Software [online]

URL://ozekisms.com

Great app begin with design [online]

URL:http://www.developer.nokia.com/Design

## Demo

Simulation Programs

**SMS Gateway Emulator** 

Mobile Phone Emulator

Scenarios

Paying a third party

Banking Statements request