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| |  | | --- | |  | | **《epay》** **Test analysis report**  **V1.0** | |

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# 1Introduction

## 1.1 Writing purposes

This test report is "epay Mobile Payment Banking System" project test report summarizes the testing phase aimed at testing and analysis of test results, described in "epay mobile payment banking system," whether it can work normally on-line or it runs stably. Expected reference personnel, including testers, developers, product managers and senior manager need to read this report.

## 1.2 Project Background

With a variety of mobile networks (3G / Bluetooth) popularity and bandwidth and a variety of escalating popularity of smart phones, people‘s requirements for financial means to pay and access to information increases day by day, in order to achieve to conduct banking account management at any time in the mobile terminals, to use short-range mobile terminals fewer restrictions on payments and transfers, to achieve a quick exchange of commodity information, to save manpower and management resources, to further achieve a complete transaction management of information technology development of the product. The current general use of short-cash means of payment and payment pos machine, this product is an advanced near-field means of payment, basically no use of similar products on the market, and because of Bluetooth 4.0 technology and cost reduction of RFID devices, future commodity transaction is bound to embark personalized, information rich way.

System mainly include personal transfers, the self-employed pay, supermarkets payments, account management (registration, query, log, report the loss, canceled), mobile banking five parts.

Systems can run 7 \* 24 hour safely with efficient and trouble-free, business people can easily complete equipment and services monitoring, management, reporting range, to meet the needs of business people various accounts.

This test is used to test the system's individual transfers, the self-employed pay, supermarkets payments, account management (registration, query, log, report the loss, canceled), several major mobile money mainly functional test module ensuring that the entire system can operate normally.

Test each business focus on the function of the module meets the system requirements.

## 1.3 Reference material

《System Requirements Analysis》

《System Detailed Design Document》

《System Design Document Outline》

《User Manual》

《Test plan》

# 2 Test Environment

## 2.1 Hardware Configuration

Test Environment Hardware Configuration：

Bank Server：

Machine name: hp-12

Operating System: Windows 7 Ultimate 32-bit (6.1, Build 7601) Service Pack 1 (7601.win7sp1\_gdr.130708-1532)

Language: Chinese (Simplified) (Regional Setting: Chinese (Simplified))

System Manufacturer: Hewlett-Packard

System Model: HP Pro 3348 MT

BIOS: BIOS Date: 04/20/2012 MAG\_705.rom Ver: 7.05

Processor: Intel(R) Core(TM) i5-2400 CPU @ 3.10GHz (4 CPUs), ~3.1GHz

Memory: 4096MB RAM

网卡

Supermarket Server：

Operating System: Windows 7 Ultimate 32-bit (6.1, Build 7601) Service Pack 1 (7601.win7sp1\_gdr.120830-0333)

Language: Chinese (Simplified) (Regional Setting: Chinese (Simplified))

System Manufacturer: Apple Inc.

System Model: MacBookPro9,2

BIOS: Default System BIOS

Processor: Intel(R) Core(TM) i5-3210M CPU @ 2.50GHz (4 CPUs), ~2.5GHz

Memory: 4096MB RAM

Bluetooth devices

NIC

Individual mobile device：

CPU：1GHz

Memory：800MB RAM

## 2.2 Software Configuration

Bank Server：

Jdk1.6 or above

Oracle11gDatabase

Supermarket Server：

Jdk1.6 or above

Oracle11gDatabase

Windows 7

Individual mobile device：

Android2.2

Sqlite

## 2.3 Test Support Tools

Github

IBM Rational Rise

# 3 Test time arrangement

## 3.1 Test organization

Project team structure, you can divide referring to following chart：

Name :

黄凯

Position:

Technical Director

Name :

浦楚楠

Position :

Project Manager

Develop Group

Name :

陈星宇

Position :

Development Engineer

Name :

黄凯

Position :

Development Manager

Name :

岑超

Position :

Test Manager

Name :

巴瑞华

Position :

Test Engineer

Test Group

Job Description Role:

Technical Director: Coordinating of scheduling among development, product and test between, processing real-time projects encountered problems.

Development Manager: Assigning the bugs found to the appropriate person in charge of the module, grasp the overall development progress.

Test Manager: building test versions of the document finishing the test requirements, design test cases, test execution, recording bug, submit a report, depending on the project coordination of project progress.

Test Engineer: finishing the test requirements, design test cases, test execution, recording bug, submit a report.

Product Specialist: Determine consistency of testing requirements and requirements of product.

## 3.2 Test Time

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task Name | Complete | Resource Name | Predecessors | Duration(Day) |
| 《epay Mobile Payment Banking system》 | 0% | Test group | - | 7 |
| Test Plan | 0% | Test group | - | 1 |
| Test requirements | 0% | Test group | 1 | 1 |
| Summary of test case development | 0% | Test group | 2 | 3 |
| Submit test execution flaws | 0% | Test group | 3 | 1 |
| Final product reports | 0% | Test group | 4 | 1 |

# 4 Analysis of test results

The following main aggregates "epay mobile payment banking system," the testing process a variety of test data and metrics, metrics, including metrics and test execution capability assessment, quality metrics for software products and product evaluation.

* **Test Plan**

Requirement: test coverage requirements contained in all functional modules and the corresponding sub-function modules.

Test Objective : coordinate “epay” project group to form a demo version can be run β1 epay system, the overall test is divided into ten blocks of business：

1. Log Management ：Depending on the identity of the system registry, and do not empty and message authentication

2. Registration: Depending on the identity information registration, and do not empty and message authentication

3. Web Access: Including loss, income and expense reports, financial statements for three functions.

4. Supermarket Shopping: Including commodity query and total payment function.

5. Individual Shopping: Based on the amount of input and 2D codes for mobile payments between.

6. Personal transfers: According to the amount of input and two-dimensional codes between mobile payment

7. Personal Finance ：Including financial management and interest settings, financial information query

8．Security Management ：Need to enter the password in the case of not using gestures

9. Additional interfaces ：Mainly include supplying to the supermarket for promotional interface

|  |  |  |  |
| --- | --- | --- | --- |
| Test Module | Testers | Test Date | Test Requirements |
| Log Management | 岑超 | 9/12 | 1)Be able to validate the data on the non-empty;  2)Reconciliation username, password authentication is correct or not;  3)Be able to verify the information on the verification code;  4)Be able to access the system account different roles resulting system functions are different. |
| Registration Management | 岑超 | 9/12 | 1)Be able to validate the data on the non-empty;  2)Can be reconciled to the user name, password, identity verification information is correct or not;  3)Be able to verify the information on the verification code; |
| Web Access -> loss report | 岑超 | 9/12 | 1)Can be verified with the login information  2)Be able to fill in the report the loss to verify the information  3)After reporting the loss to achieve normal freezing of accounts, and subsequent thawing |
| Web Access -> income statements | 岑超 | 9/12 | 1)be able to verify the login information  2)can be displayed properly log the income information, and query details after clicking  3)can be displayed properly registrant expenditure information, and query details after clicking |
| Web Access -> Financial Statements | 岑超 | 9/12 | 1)Be bale to authenticate the login information  2)Can be requested by the login histogram financial management information and results are displayed |
| Supermarket shopping-> Product Search | 岑超 | 9/12 | 1)Be able to scan the QR code to establish a connection with the supermarket  2)Can be obtained by scanning a barcode product name, price and other information |
| Supermarket shopping -> Total paid | 岑超 | 9/12 | 1) Can be obtained through the submission of information on all the goods total  2) Can be sufficient in the case of the balance of payments shopping list |
| Individual shopping | 岑超 | 9/12 | 1) Individual owner of the software can generate two-dimensional code Bluetooth information  2) A customer can be generated by the two-dimensional code and the individual owner to connect  3) the individual owner can send payments to customers  4) In the case of sufficient balance, customers can connect to the network through the owner for instant payment |
| Personal transfers -> electronic check transfers | 岑超 | 9/12 | 1) Between two paired Bluetooth users to balance transfers circumstances sufficient |
| Personal transfers -> Electronic Check Cashing | 岑超 | 9/12 | 1) The holder of the check can be the case in a networked Check Cashing |
| Personal Finance -> Money Set | 岑超 | 9/12 | 1) In the case of the user enough balance, you can choose to pay the account funds under investment in certain financial products |
| Personal Finance -> interest Settings | 岑超 | 9/12 | 1) Be able to at the appointed time the settlement interest by financial products  2) User can select or remove a financial interest to continue |
| Personal Finance -> Financial Information Query | 岑超 | 9/12 | 1. In case of completed the setting and the situation is not settled, you can view their financial information entry |
| Security Management -> gesture password | 岑超 | 9/12 | 1. User must enter the gesture password input interface after a period of time of no operations 2. After a certain number in the wrong period of time will stop users from logging |
| Additional interfaces -> Additional interfaces | 岑超 | 9/12 | 1. Can be used normally available to the mall shopping guide, voice features 2. There are easy mall own plug-in interface |

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