



The Eleventh “Citicup” Financial Innovation Competition

User’s Manual

Name: YiBangRen ——A Transparent P2P Platform for Charitable Donations

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September, 2015



Revision History

Date	Version	Description	People
<10/Sep/15>	<1.0>	First draft	Project Owner and Client: Tang JieQiang Faculty Advisor: Wang Peng Project Group: Li Dong, Liu Chang, Wang Bo, Qi Panpan



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User's Manual

1. Introduction

1.1 Purpose

The purpose of writing this User's Manual is to enable users understand the functionality, performance of the software comprehensively and detailed. Besides, it can guide the user to install, set up and use the software. The intended audience is the user of YiBangRen--A Transparent P2P Platform for Charitable Donations.

1.2 Background

Project Name: YiBangRen ---- A Transparent P2P Platform for Charitable Donations

Project Source: The Eleventh "Citicup" Financial Innovation Competition
Development team: Citier

Project User: Voluntary dedication of individuals, businesses, other organizations and other charitable enthusiasts

1.3 Definitions

P2P: Peer-to-peer, a computing or networking distributed application architecture that partitions tasks or workloads among peers

1.4 References

[1] Roger S. Pressman. *Software Engineering — — A Practitioner's Approach*[M].2008.

2. Usage

2.1 Functions

Serial number	Name	Description
UM-001	Browse the list of all projects	Ordinary users browse all items of projects
UM-002	Browse the detail of a specific project	Ordinary users browse the detail of a specific project
UM-003	Search the project	Ordinary users search the project in a fuzzy way or by GPS



Serial number	Name	Description
UM-004	Share the project	Ordinary users Share the project on the social networking platforms such as WeChat, Microblog and so on
UM-005	User registration	Register as a registered user
UM-006	Make a donation	Registered users can contribute to projects through Alipay, China UnionPay and other payment platform
UM-007	Comment on projects	Registered users can comment on projects
UM-008	Support the projects	Registered users can support the project in some way such as pressing “like”
UM-009	Real-name authentication	Registered users become a authenticated user through real-name authentication
UM-010	Personal information management	Registered users can view his/her personal information, donating records, supported projects, badges
UM-011	Share the philanthropy	Registered users share his/her philanthropy on the social networking platforms
UM-012	Report Projects	Registered users report suspected fraud projects
UM-013	Subscribe to the projects	Registered users subscribe to the projects to receive project updates
UM-014	Make a request for help	Authenticated user make a request for help
UM-015	Make a apply for withdrawal	Authenticated user make a apply for withdrawal
UM-016	View the progress of the projects	Authenticated users view the progress of his/her projects
UM-017	process the applications of reporting and complaint	Administrators process the applications of reporting and complaint



Serial number	Name	Description
UM-018	Process the applications of requesting for help	Administrators process the applications of requesting for help
UM-019	Examine and verify the applications for withdrawal	Administrators examine and verify the applications for withdrawal
UM-020	Examine and verify the authentication	Administrators examine and verify the authentication

2.2 Performance

2.2.1 Accuracy

- **Accuracy of Input Data:** three significant digits after the decimal point
- **Accuracy of Output data:** three significant digits after the decimal point
- **Accuracy of Transmission:** three significant digits after the decimal point

2.2.2 Time characteristics

- **Real-Time Response time:** no more than one second. That is, the response time of user's clicking, keyboard inputting of each functional module and other operating events must be less than one second;
- **Processing time:** no more than one second
- **Data conversion and transfer time:** no more than one second
- **Project reviewing and identity checking time:** no more than three days

2.2.3 Flexibility

- The software can provide support for different operating environments, namely it is compatible when running on the system of iOS8 or iOS8+ ;
- When the user inputs an integer, it can be automatically converted to meet the precision of three significant digits after the decimal point. When the input is in a wrong type, it can report an error ;
- The software satisfies the Open-Closed Principle in order to adapt to the demand for change in the future.
- Software system can ensure the security of user data when updating.

2.3 Security and confidentiality

The system has encrypted the critical data. An unauthorized user cannot access data or services. Users and administrators should submit the data or services under the plan; The software has strengthened the auditing mechanisms to ensure that parties to the transaction is the person claimed; Besides, it can track the system activity in the internal system, with strong security.



3. Operating Environment

3.1 hardware equipment

3.1.1 Processor Type:

A7, A8 or other iPhone processor

3.1.2 Memory capacity

512MB+

3.1.3 Input and output devices

4 online computers, several online iPhone

3.2 Support Software

3.2.1 Operating system:

Microsoft Windows 7, Microsoft Windows 8, Microsoft Windows 10; iOS8 or iOS8+

3.2.2 Operating environment:

.NET Framework 3.5

4. Using Procedure

4.1 Installation and initialization

4.1.1 Store form of the program

- Temporary data is stored in memory
- Historical data is stored on the hard disk on the server as the rules of the database

4.1.2 Operation Command

No operation command, just click to use

4.1.3 Server

Server is the Ali cloud server ECS. Configured as follows:

1) Basic Information

Where available District: Beijing Available District A

Examples Specifications: ecs.t1.xsmall

2) Configuration Information

CPU: 1 core

Memory: 512 MB

Operating system: Ubuntu 14 .04 64 bits

Public network IP: 123.56.91.235

3) Software Information

PHP: 5.2

MySQL: 5.6.24 Source distribution

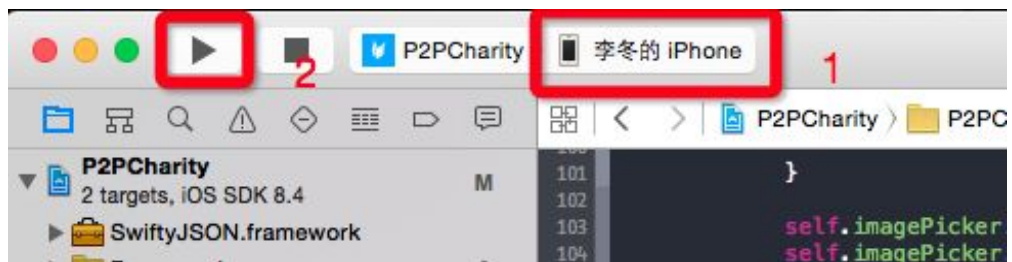
XAMPP: Apache + MySQL + PHP + PERL

4.1.4 Client

System requirements iOS 8 and above, the client software is on the iOS platform. There is no uploading access to App Store now. Because of Apple's ecological limits, ongoing real machine debugging installed only by connecting the phone to run the Xcode Mac os.

Procedure as follows:

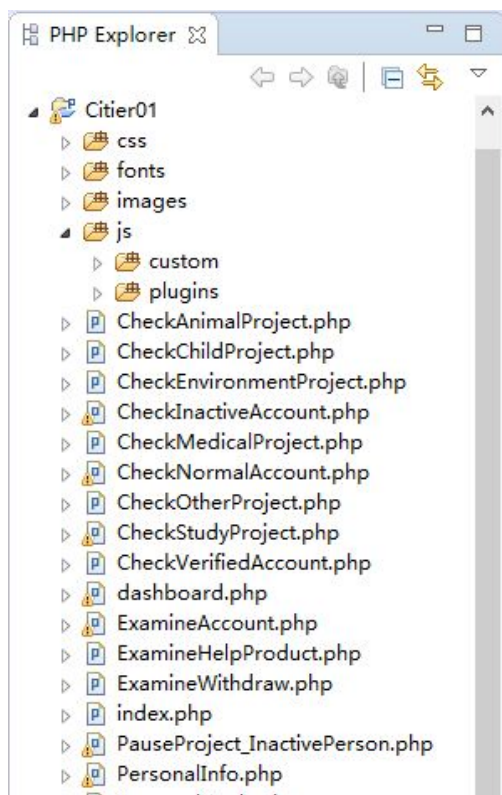
- 1) Connect the phone to a Mac computer,.
- 2) Open Xcode. Select Debug phone. Click on the Run button. As shown below.



- 3) Installed, open the software.

4.1.5 Background Terminal (Management Terminal)

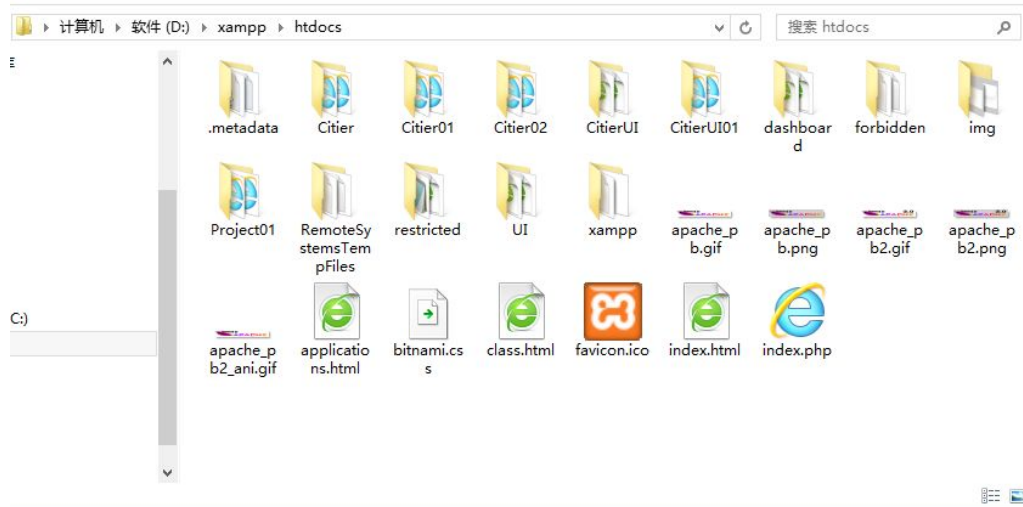
We use development tools Zend studio 12.5.1 to create a Web site project and write php, javascript, css scripting language.



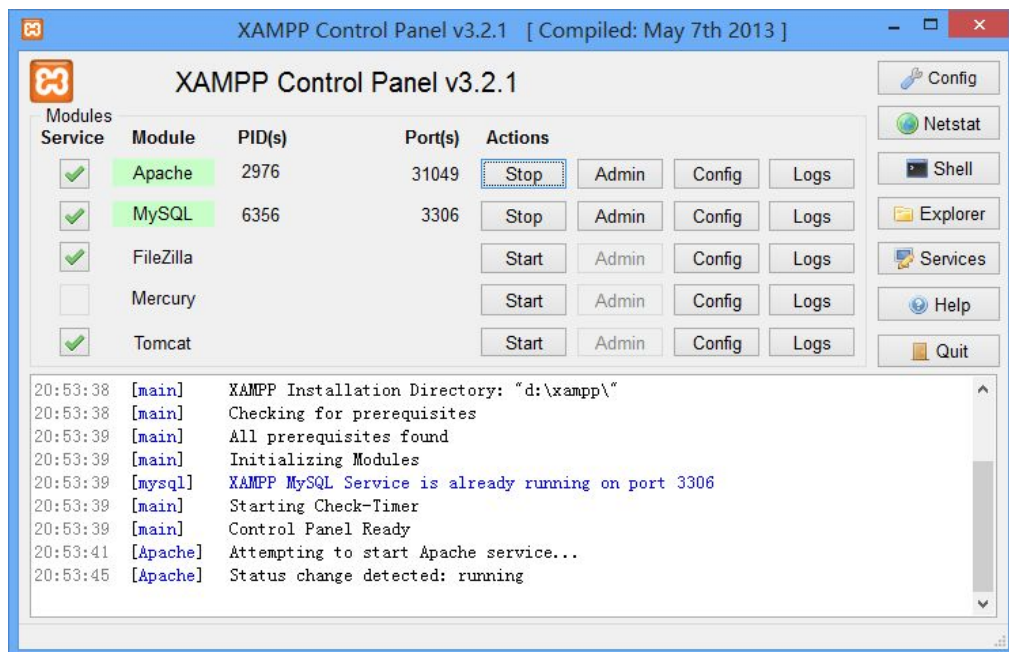
When the coding of the project is at the end, you need to configure the environmental projects. Only after doing that, you have the access to the Web page.

Steps:

1) Download XAMPP installation package, then unzip it. Place the project Citier01d under htdocs folder, so that you can save other related issues such as Apache and database configuration.



2) Start XAMPP, and ensure that Mysql and Apache is running.



3) Here, we enter the local PHP database management background. Create a database for this project and create the appropriate table.



YIBANGREN

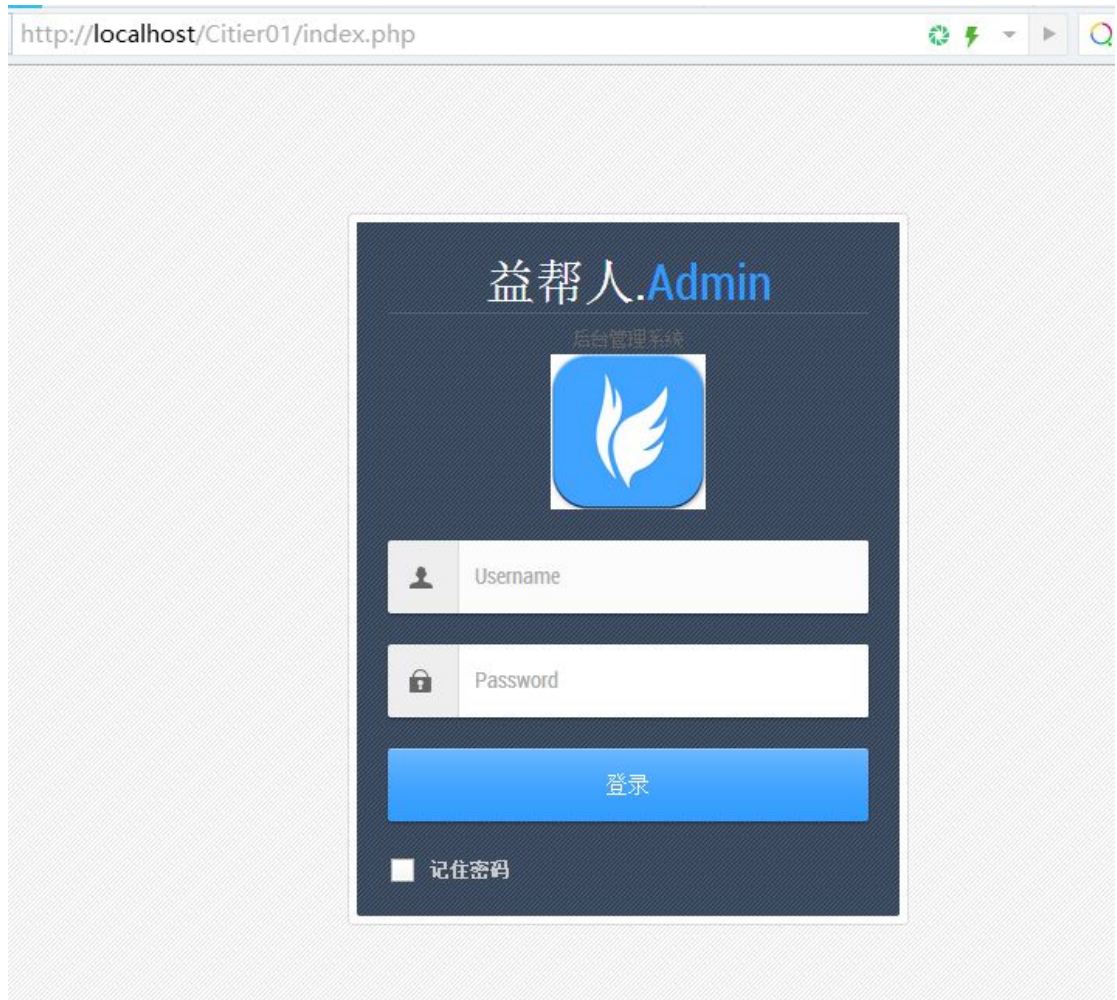
A Transparent P2P Platform for Charitable Donations

The screenshot shows the phpMyAdmin interface for a MySQL database named 'my'. The left sidebar displays the database structure, including tables like 'comment', 'comolaint', 'donation', 'project', 'user', and 'withdraw'. The main panel shows a list of tables with their respective row counts, engine types, and character sets. The 'user' table is selected, and the 'New Database Table' form is open, showing the table name and the number of fields (4).

Database SQL statement , for example,to create the User table:

```
1 CREATE TABLE User(  
2 UserID INT NOT NULL AUTO_INCREMENT,  
3 UserName VARCHAR(20) NOT NULL,  
4 UserPassword VARCHAR(15) NOT NULL,  
5 RealName VARCHAR(10),  
6 ID VARCHAR(18),  
7 IDphotoFront LONGTEXT,  
8 IDphotoReverse LONGTEXT,  
9 IDphotoFrontFar LONGTEXT,  
10 IDphotoReverseFar LONGTEXT,  
11 PhoneNum VARCHAR(12),  
12 AuthenticationFail BOOLEAN,  
13 AuthenticationFailMsg LONGTEXT,  
14 IsActive BOOLEAN,  
15 PRIMARY KEY (UserID));
```

4) When database and server configuration is complete, open a Web page then enter localhost / Citier01 / index.php local access. After that, you can access to the login screen.



Precautions:

- 1) The above is the deployment procedure of the local environment, which is similar to Ali cloud server deployment environment. Currently, the cloud server platform construction has been completed, so the page can be accessed by visiting 123.56.91.235/Citier01/index.php.
- 2) End web administrator login account is admin, the password is 123



4.2 Input

4.2.1 Input Data realistic background

Scene	Source	Occurring frequent	Input Media	Quality Control
Fuzzy search and location search to find items	general user	Random	Touch screen	Test the reasonableness of the data. When the user enters an invalid data, the system prompt it friendly and require the user to re-enter. Besides, the recording of the error condition will be established.
Share projects to micro-channel, microblogging and other social platforms	general user	Random	Touch screen	
Register as a registered user	general user	Random	Touch screen	
Contributions	Registered user	Random	Touch screen	
Comment Project	Registered user	Random	Touch screen	
Support Project	Registered user	Random	Touch screen	
Real-name certification application	Registered user	Random	Touch screen	
Share your public behavior data to social platforms	Registered user	Random	Touch screen	
Report suspected project	Registered user	Random	Touch screen	
User login	Registered user	Random	Touch screen	
Launch a help project	Authenticated user	Random	Touch screen	
Submit application for withdrawal	Authenticated user	Random	Touch screen	
Process user's complaints Application	Administrator	Random	Keyboard	
Process User's help application	Administrator	Random	Keyboard	



Scene	Source	Occurring frequent	Input Media	Quality Control
Process user's withdrawal applications	Administrator	Random	Keyboard	
Process user's authentication application	Administrator	Random	Keyboard	

4.2.2 Input format

The client software supports two input formats: touch input and text input

- **Touch input:** users touch the screen with his/her finger. if the it is a valid target system, then the system will record as the user input.
- **Text input:** the user specified in the text box to enter text, it will be recognized as a valid system after record for the user input

Length: 20 characters / line

Format reference: to the left edge of the base;

Glossary: None

Omit and repeat: none;

4.3 Output

4.3.1 output data

Scene	Occurs frequently	Media
Software startup	First start after installing the software	Phone screen
User login and registration	Random	Phone screen
Project Browser	Random	Phone screen
Project Search	Random	Phone screen
Commenting on the project and support	Random	Phone screen
Auditing Services	Random	Phone screen
Share Services	Random	Phone screen

4.3.2 Output format

- 1) User login and registration services



- When the user enters an invalid data, the system reminds the user to re-enter friendly and promptly.

- Friendly system output is logged successfully registered

2) Project browsing service

- For a list of all items, output data includes project title, help launcher's name, the amount of assistance, donations deadlines of each item.
- For more details on individual projects, output data includes project type,, the amount of assistance, grounds, project title, help launcher's real name, phone number, address, emergency contact name, emergency contact telephone number and donations deadlines

3) Project inquiry service

- When the user enters an invalid data, the system automatically query and returns an similar but valid input promptly.
- The list displays the query results

4) Project reviews and Support Services

- When the user enters an invalid data, the system reminds the user to re-enter friendly and promptly.
- Friendly system output to comment on whether or support success

5) Audit Services

- When the user enters an invalid data, the system reminds the user to re-enter friendly and promptly.
- After the user submits the application review, there will be a message

6) Sharing service

- Jump to the social platform interface, and outputs the content.

4.4 Operation Example

4.4.1 Client

1) Software start page

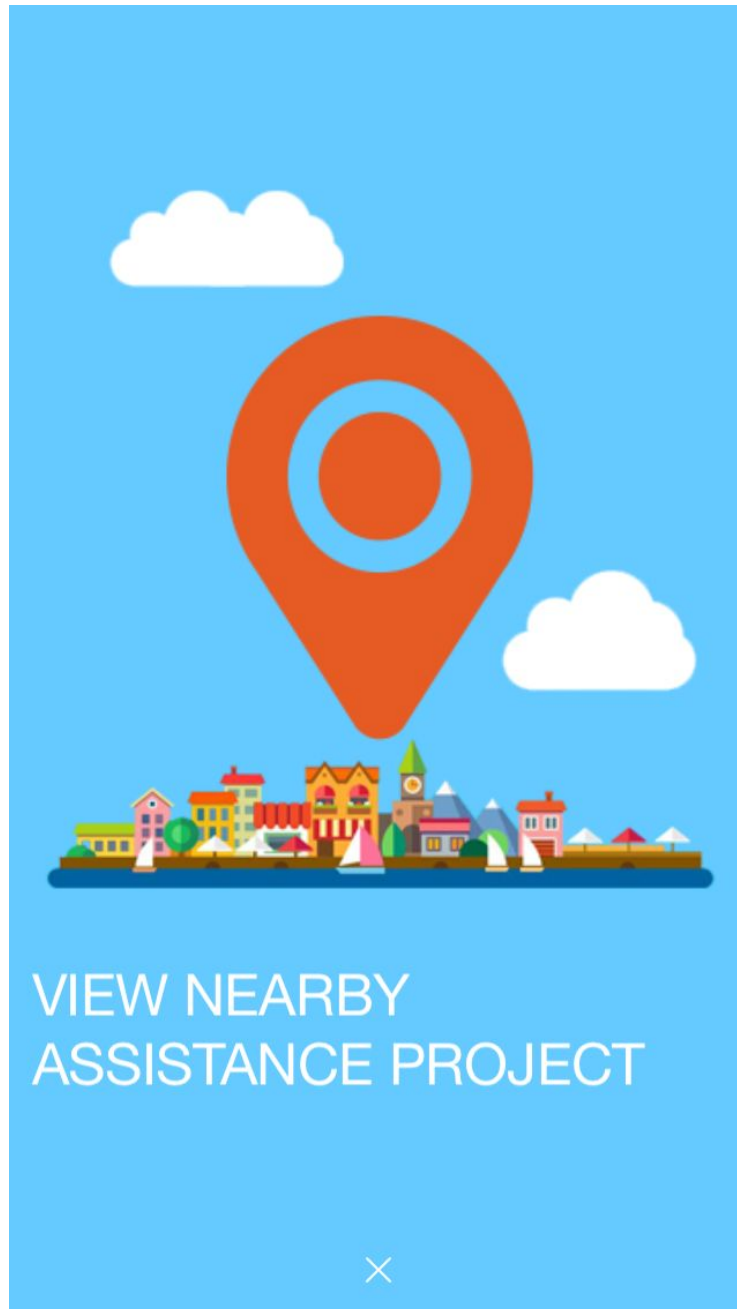


2) Software Guide Page

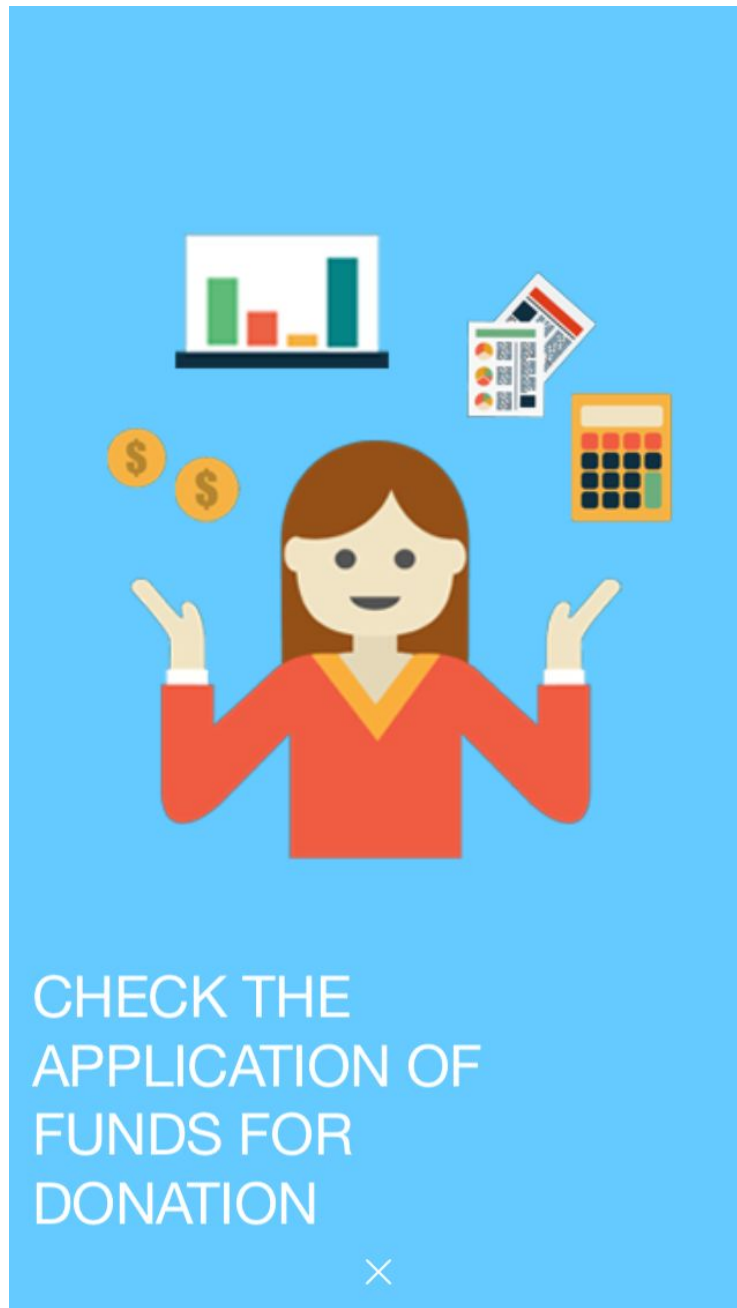
- Guide Page One



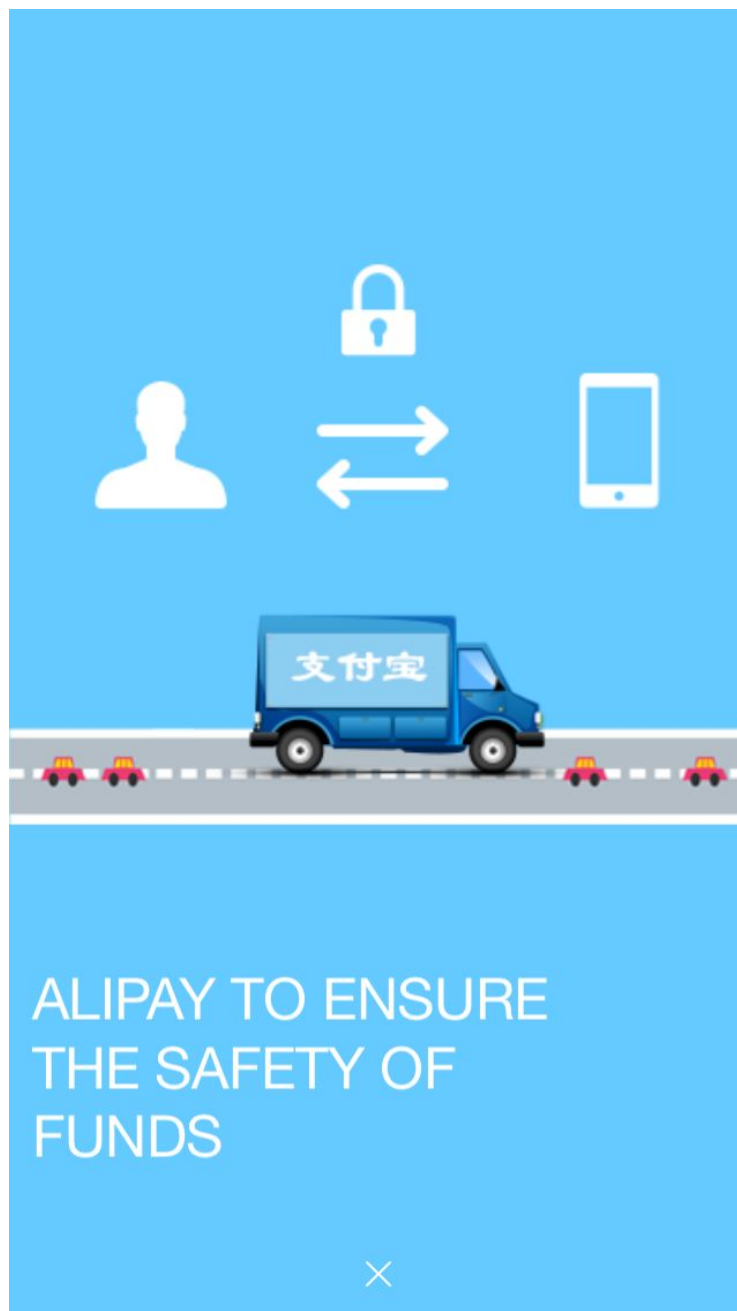
- Guide Page Two



- Guide Page Three



- Guide Page Four



3) User login interface



The image shows a mobile application login screen. At the top, there is a blue header bar with a back arrow and the text '我' (Me) on the left, and '登录' (Login) on the right. Below the header, the background is a blurred image of a wooden structure. The login form consists of two input fields. The first field has a user icon on the left and the text '408222896@qq.com'. The second field has a lock icon on the left, three dots representing a password, and a '忘记密码' (Forgot Password) link on the right. Below the input fields is a large blue button with the text '登录' (Login). At the bottom, there is a link that says '还没有账号? 注册' (Don't have an account? Register).

4) User registration interface



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●●●●○ 中国电信 下午8:13

< 登录 注册

 1136855714@qq.com

 ●●●

 ●●●

注册



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5) Request interface when requesting the position information



6) Help Projects software interface

- Projects near interface



- All Projects Interface



7) Project details Interface

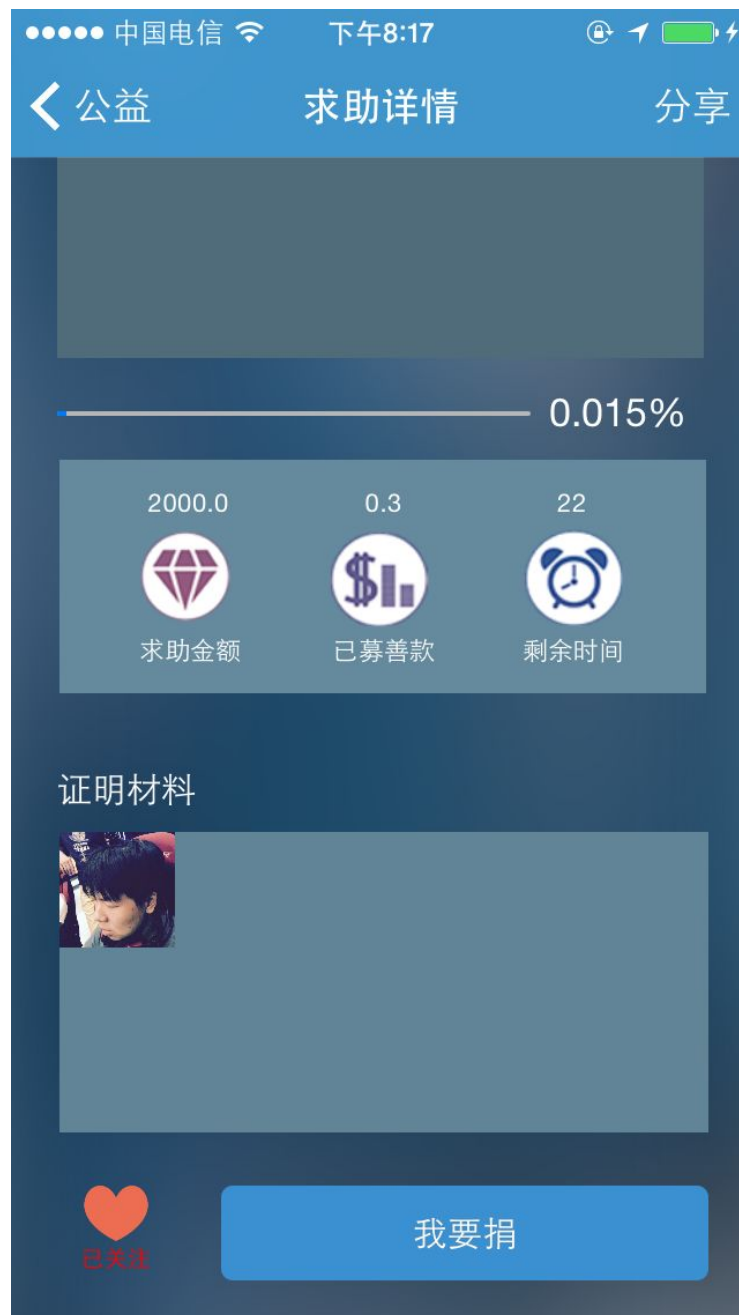
You can view the project information You can also click on the Follow button on the projects concerned. Click on the button “I want to donate” can donate.





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8) Fill donation information

●●●●● 中国电信 下午8:21

求助详情 捐赠信息

亲爱的XXX，您本次爱心捐赠号为：
Z23333333。感谢您的支持，公益的旅途，感谢有你一路相伴。

捐赠项目 支教助学

捐赠人 李冬

联系电话 18161274275

捐赠金额 1元 5元 10元

0.1

前往支付

9) Alipay interface



确认支付



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●●●●○ 中国电信 下午8:21

支付宝

支教助学

0.10元

支付宝账户

132****5265

使用余额付款: 0.10元

快捷支付 (含卡通)

中国建设银行储蓄卡(尾号9648)

支付宝支付密码

找回支付密码

确认付款



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10) Share project to social platforms





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11) Help launching interface

●●●● 中国电信 下午7:51

求助 下一步

请选择

☒ 求助资金

求助金额

30000

求助类型

医疗救助

求助原因

天津塘沽大爆炸



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●●●●○ 中国电信 下午7:52

求助 基本资料 下一步

求助人

汤杰强

身份证号

352202199302082010

联系电话

152-8102-2072

联系地址

四川成都

紧急联系人

李冬

紧急人电话

18161274275



YIBANGREN

A Transparent P2P Platform for Charitable Donations

●●●○ 中国电信

下午7:52

🔒 🔍 🔋

← 基本资料

发起求助

求助标题

四川塘沽大爆炸

性别


男


女


收入


0

上传证明材料









提交上传材料

12) Withdrawal Requesting Interface

●●●●● 中国电信

下午9:51

< 我的记录

申请提款

提款项目

支教助学

剩余捐款金额

0.4

提款金额

0.4

元

提款用途

给学生买教科书

支付宝账号

13275885265

联系电话

18161274275

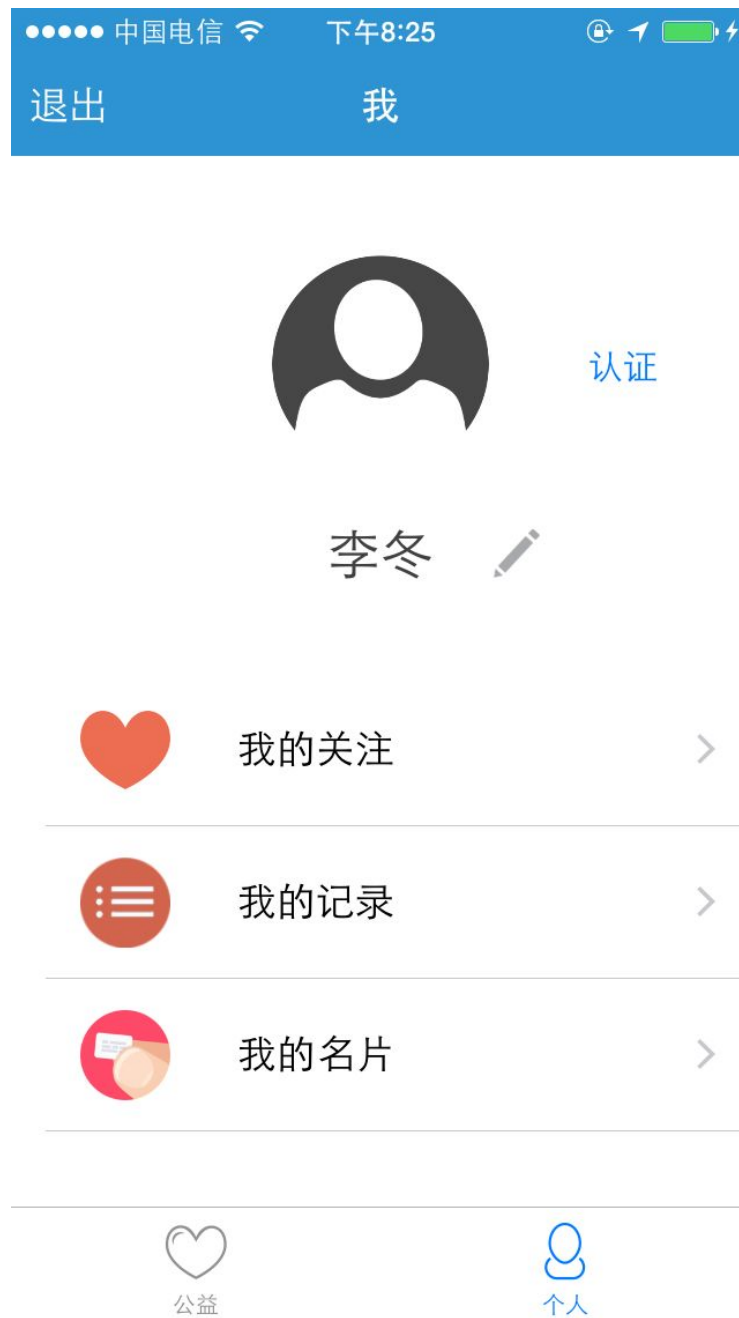
证明材料



+

确认提款

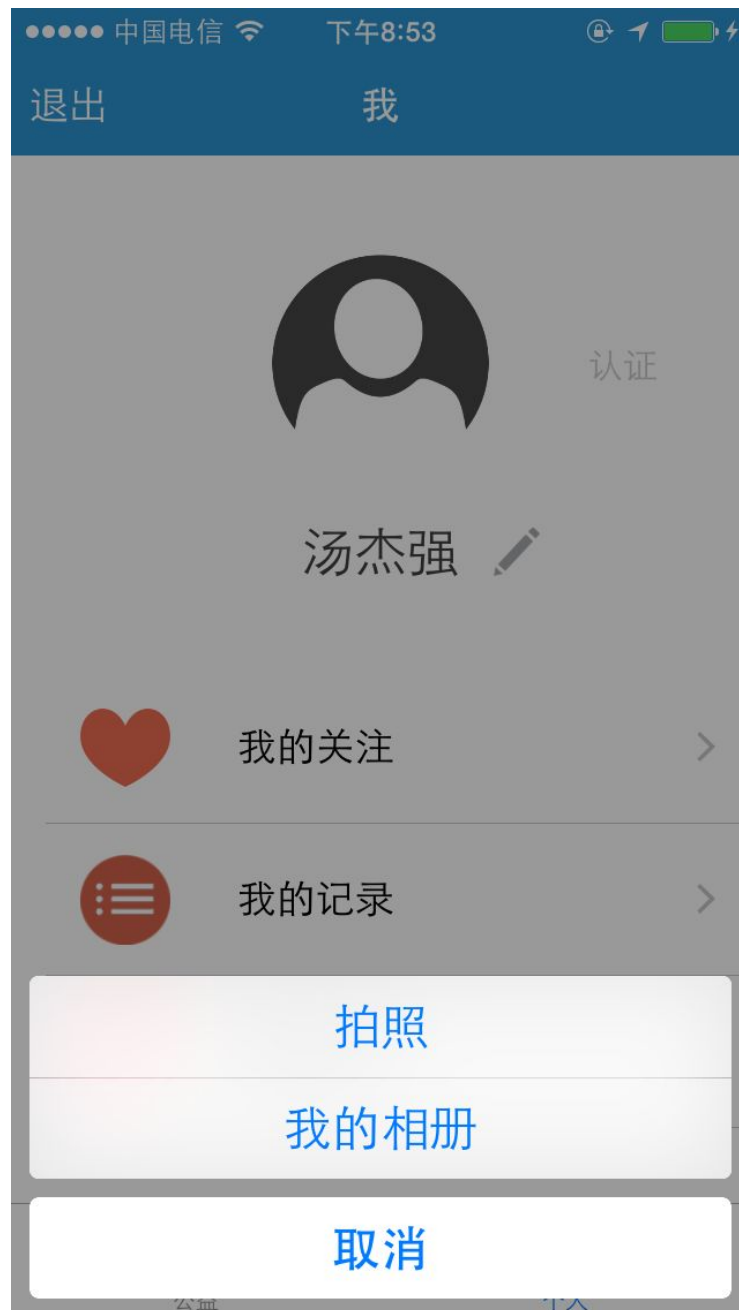
13) Personal Management Interface



Click the Edit button next to the nickname of the interface to enter the modification nickname



Click the picture, then you can change avatar





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14) My concern interface:



15) My record interface

- My donation record



- My help launching record



- My withdrawal record



16) User authentication interface

●●●● 中国电信 下午8:30

个人认证 提交

真实姓名

汤杰强


身份证号码

352202199302082010


联系电话

152-8102-2072

身份证正面照片



身份证反面照片





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After submitting the approval for certification



17) My welfare card interface

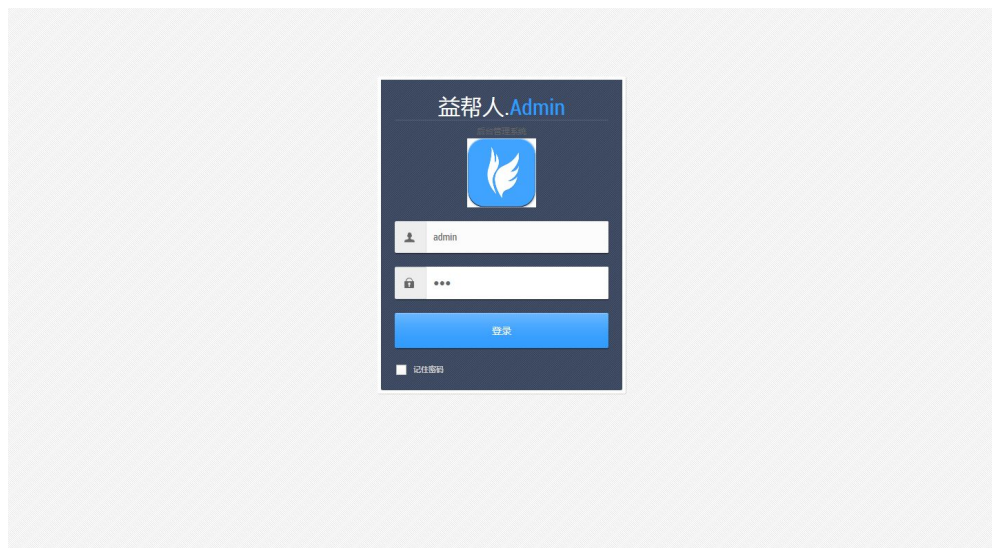


18) Share welfare card

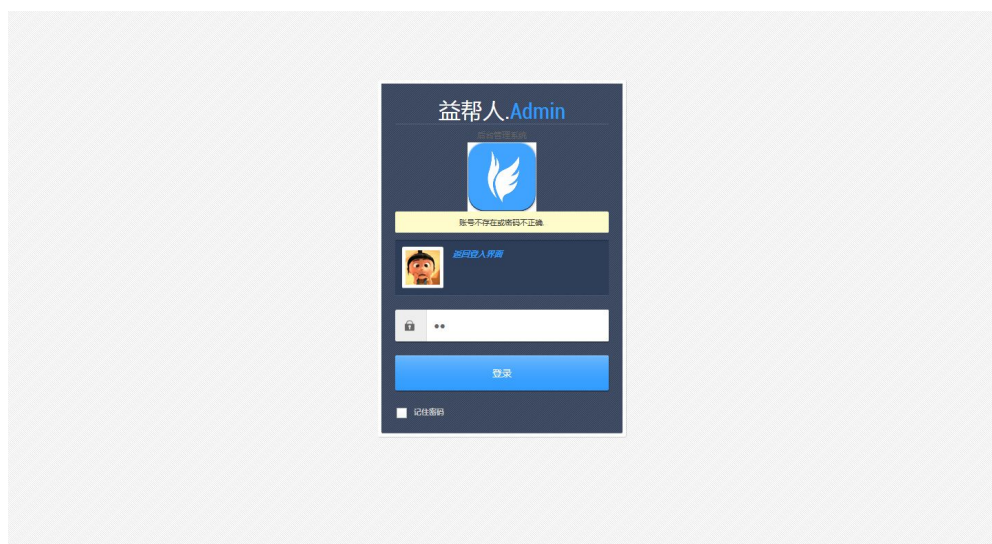


4.4.2 management side

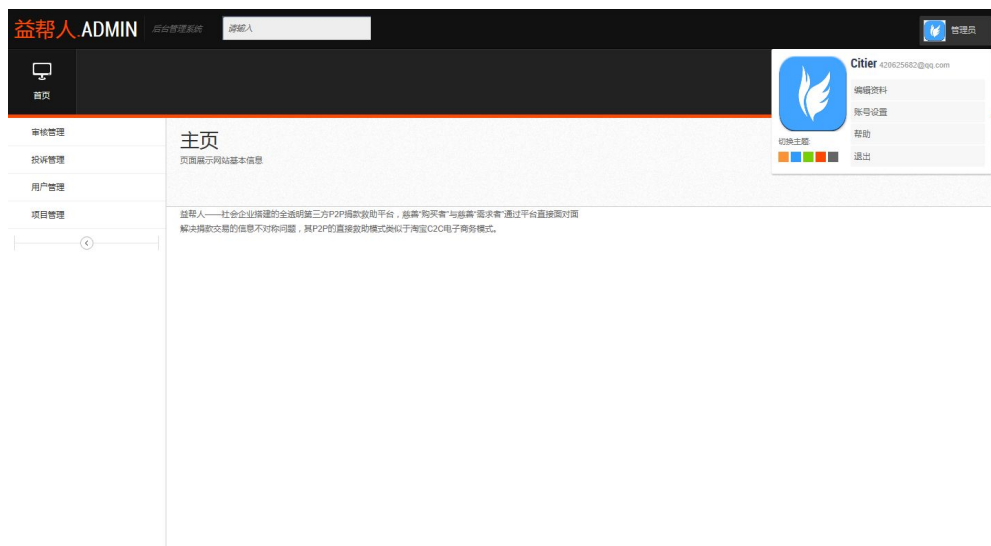
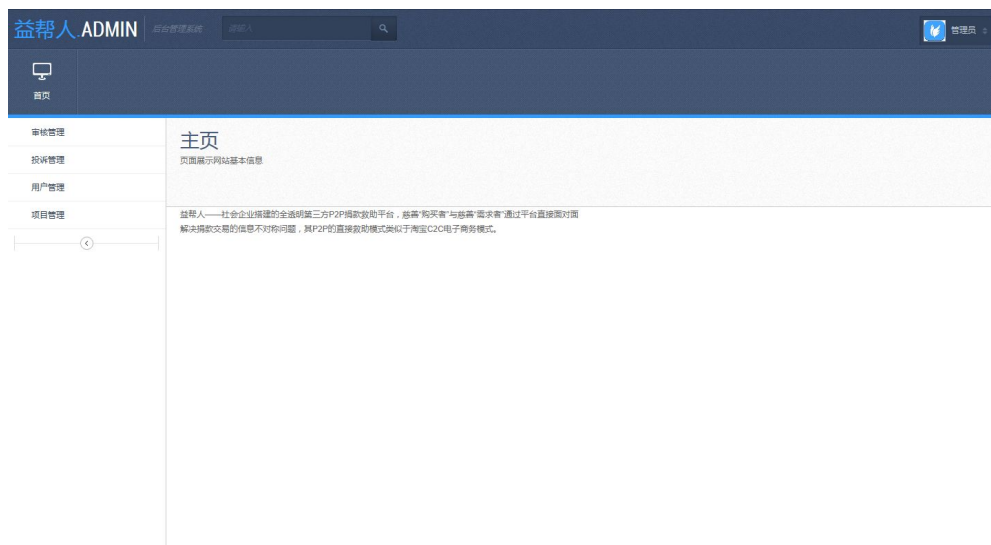
1) log in



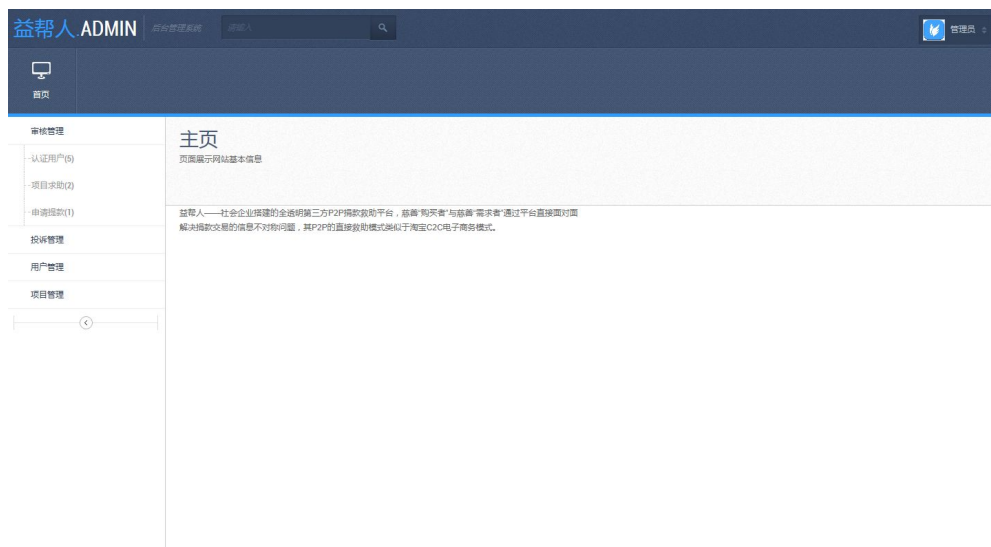
Login password or account error



2) Main interface



3) Display page



4) Audit - certification processing

益帮人 ADMIN 后台管理系统 管理员

首页

审核管理
投诉管理
用户管理
项目管理

认证用户审核

1-10 of 20

<input type="checkbox"/>	用户名	账号(点击链接, 查看具体内容, 并进行审核)	申请日期
<input type="checkbox"/>	汤志强	420625682@qq.com	2015-08-16
<input type="checkbox"/>	李冬	1136855714@qq.com	2015-08-19
<input type="checkbox"/>	齐盼琴	878010718@qq.com	2015-08-19
<input type="checkbox"/>	刘楠	421562102@qq.com	2015-08-20
<input type="checkbox"/>	王博	794268087@qq.com	2015-08-22

益帮人 ADMIN 后台管理系统 管理员

首页

回复用户审核不通过的理由

图片太模糊

提交

5) Project review

益帮人 ADMIN 后台管理系统 管理员

首页

审核管理
投诉管理
用户管理
项目管理

求助项目审核

1-10 of 20

<input type="checkbox"/>	项目名称	项目编号(点击链接, 查看具体内容, 并进行审核)	日期
<input type="checkbox"/>	身患绝症老人	1	2015-08-02
<input type="checkbox"/>	希望我们能行动起来	2	2015-09-05

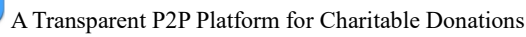
6) Withdrawal Request



The screenshot displays the YIBANGREN ADMIN interface. The top navigation bar includes the logo, 'ADMIN', and a search bar. The left sidebar contains menu items: '首页' (Home), '审核管理' (Review Management), '投诉管理' (Complaint Management), '用户管理' (User Management), and '项目管理' (Project Management). The main content area is titled '提款申请审核' (Withdrawal Request Review). It features a table with columns for '项目名称' (Project Name) and '日期' (Date). The table contains one entry: '身患绝症老人' (Elderly person with terminal illness) with a date of '2015-09-01'. A pagination bar at the top right indicates '1-10 of 20'.

<input type="checkbox"/>	项目名称	提款编号(点击链接, 查看具体内容, 并进行审核)	日期
<input type="checkbox"/>	身患绝症老人	1	2015-09-01

7) Complaints Management



8) User Registration

9) Authenticated user

52

10) Sort according to donate money

益帮人 ADMIN 后台管理系统 请输入 搜索

首页

审核管理
投诉管理
用户管理
项目管理

认证用户

Show 10 ☒ entries Search:

<input type="checkbox"/>	账号	联系电话	申请日期	捐款次数	已捐金额
<input type="checkbox"/>	452673255@qq.com	15281022075	2015-8-3	2	1
<input type="checkbox"/>	325673135@qq.com	15281022072	2015-8-11	5	100
<input type="checkbox"/>	4206257777@qq.com	15281022073	2015-5-2	2	100
<input type="checkbox"/>	429534955@qq.com	15281022079	2015-8-4	5	100
<input type="checkbox"/>	12346231@qq.com	15281022072	2015-8-6	5	120
<input type="checkbox"/>	312473221@qq.com	15281022072	2015-8-8	5	160
<input type="checkbox"/>	621567366@qq.com	15281022072	2015-8-1	5	500
<input type="checkbox"/>	账号	联系电话	申请日期	捐款次数	已捐金额

Showing 1 to 7 of 7 entries First Previous 1 Next Last

11) Search according keyword

益帮人 ADMIN 后台管理系统 请输入 搜索

首页

审核管理
投诉管理
用户管理
项目管理

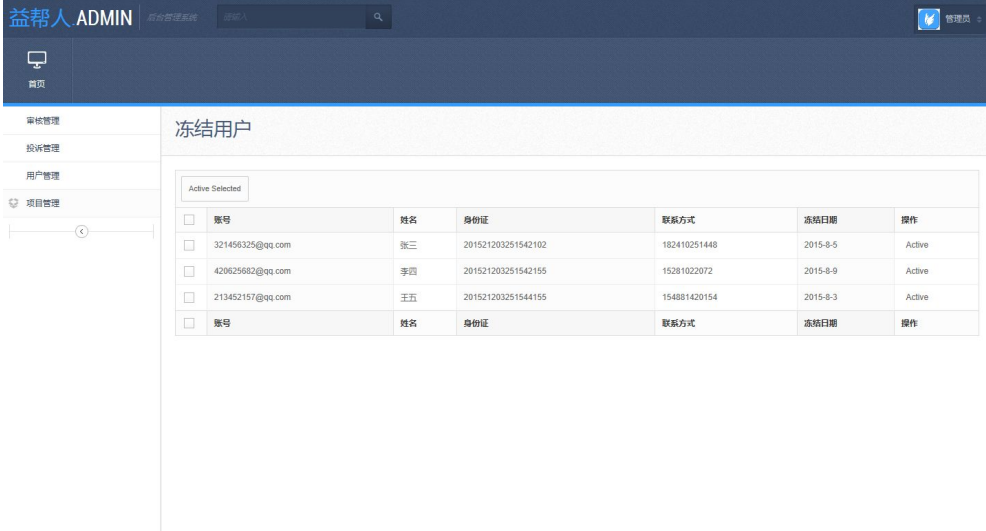
认证用户

Show 10 ☒ entries Search: 4526

<input type="checkbox"/>	账号	联系电话	申请日期	捐款次数	已捐金额
<input type="checkbox"/>	452673255@qq.com	15281022075	2015-8-3	2	1
<input type="checkbox"/>	账号	联系电话	申请日期	捐款次数	已捐金额

Showing 1 to 1 of 1 entries (filtered from 7 total entries) First Previous 1 Next Last

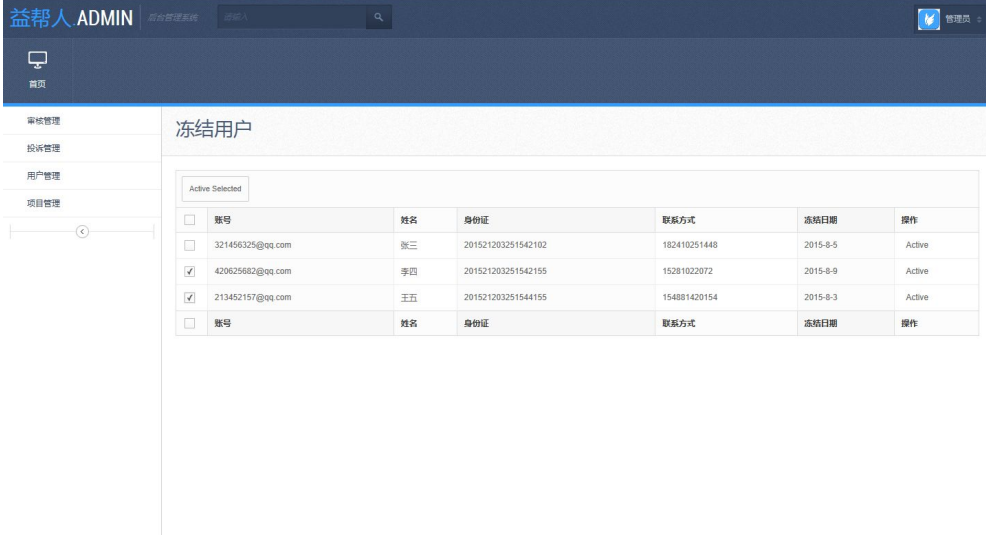
12) Freezing users



冻结用户

账号	姓名	身份证	联系方式	冻结日期	操作
<input type="checkbox"/> 321456325@qq.com	张三	201521203251542102	182410251448	2015-8-5	Active
<input type="checkbox"/> 420625682@qq.com	李四	201521203251542155	15281022072	2015-8-9	Active
<input type="checkbox"/> 213452157@qq.com	王五	201521203251544155	154881420154	2015-8-3	Active

13) Thawing operation



冻结用户

账号	姓名	身份证	联系方式	冻结日期	操作
<input type="checkbox"/> 321456325@qq.com	张三	201521203251542102	182410251448	2015-8-5	Active
<input checked="" type="checkbox"/> 420625682@qq.com	李四	201521203251542155	15281022072	2015-8-9	Active
<input checked="" type="checkbox"/> 213452157@qq.com	王五	201521203251544155	154881420154	2015-8-3	Active

14) Project management

益帮人 ADMIN 后台管理系统 管理员

首页

审核管理
投诉管理
用户管理
项目管理

儿童成长类型

Show 10 entries

<input type="checkbox"/>	项目名称	求助人数	求助金额	已捐金额	截止日期
<input type="checkbox"/>	单亲留守儿童	420516528@qq.com	1000	100	2015-8-1
<input type="checkbox"/>	乡村儿童的音乐梦	51462515124@qq.com	1000	100	2015-8-1
<input type="checkbox"/>	乡村儿童的求学梦	251485415@qq.com	13000	1300	2015-8-1
<input type="checkbox"/>	白血病患者求学梦	251456201@qq.com	1000	100	2015-8-3
<input type="checkbox"/>	大山留守儿童	5481420215@qq.com	1000	100	2015-8-4
<input type="checkbox"/>	项目名称	求助人数	求助金额	已捐金额	截止日期

Showing 1 to 5 of 5 entries

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益帮人 ADMIN 后台管理系统 管理员

首页

审核管理
投诉管理
用户管理
项目管理

医疗救助类型

Show 10 entries

<input type="checkbox"/>	项目名称	求助人数	求助金额	已捐金额	截止日期
<input type="checkbox"/>	白血病	420625682@qq.com	1000	100	2015-8-1
<input type="checkbox"/>	肺癌	1524626134@qq.com	1000	100	2015-8-1
<input type="checkbox"/>	肝癌	421502154@qq.com	1000	100	2015-8-1
<input type="checkbox"/>	车祸	510482146@qq.com	1000	100	2015-8-3
<input type="checkbox"/>	工伤	541874593@qq.com	1000	100	2015-8-4
<input type="checkbox"/>	项目名称	求助人数	求助金额	已捐金额	截止日期

Showing 1 to 5 of 5 entries

First Previous 1 Next Last

益帮人 ADMIN 后台管理系统 管理员

首页

审核管理
投诉管理
用户管理
项目管理

支教助学类型

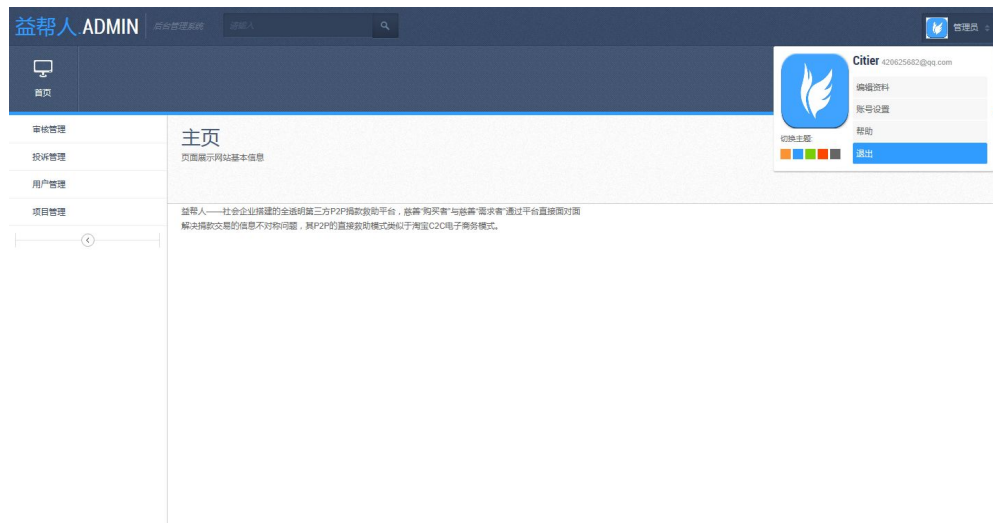
Show 10 entries

<input type="checkbox"/>	项目名称	发起人账号	求助金额	已捐金额	截止日期
<input type="checkbox"/>	乡村儿童求学梦1	320625682@qq.com	10000	8150	2015-8-1
<input type="checkbox"/>	乡村儿童求学梦2	145625682@qq.com	10000	1800	2015-8-1
<input type="checkbox"/>	乡村儿童求学梦3	356825682@qq.com	12000	1500	2015-8-1
<input type="checkbox"/>	新晋少年 发金读书	369025682@qq.com	11000	1501	2015-8-3
<input type="checkbox"/>	乡村儿童的音乐梦1	420625682@qq.com	10000	1100	2015-8-4
<input type="checkbox"/>	乡村儿童的音乐梦2	420625682@qq.com	100000	8100	2015-8-7
<input type="checkbox"/>	乡村儿童的音乐梦3	524154132@qq.com	10000	1000	2015-8-3
<input type="checkbox"/>	乡村儿童的音乐梦4	420625682@qq.com	10000	1500	2015-8-8
<input type="checkbox"/>	乡村儿童的音乐梦5	548412541@qq.com	14000	3200	2015-8-1
<input type="checkbox"/>	乡村儿童的音乐梦6	541826021@qq.com	8000	1430	2015-8-1
<input type="checkbox"/>	项目名称	发起人账号	求助金额	已捐金额	截止日期

Showing 1 to 10 of 17 entries

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15) Exit system



4.5 Error handling and recovery

4.5.1 Insufficient battery:

The software provides timing saving mechanism and a certain time information is automatically saved so that the security of user data at intervals can be ensured. When a mobile phone user re-supplies, the software, it can be used normally;

4.5.2 Memory shortage

The software is as stable as possible. When the user solve the problem of insufficient memory, the software can be used normally;

4.5.3 User input error

When the software requires the user to input and the input entry is malformed or does not comply with the rules and so on, the software will be prompted in a reasonable manner;

4.5.4 Unable to connect to database server

When the software can not obtain the relevant user data and project information from a database, the software will prompt temporarily that it is unable to provide friendly service, and the it will guide the user to inform software maintenance personnel to process the problem.

4.5.5 The database is damaged

The software will regularly backup the database. When a database is damaged, the software will prompt friendly data damage or loss, and other related errors, and then guide the user to inform software maintenance to carry out professional data recovery and System Repair.