Old System Evaluation Report

Introduction

This report examines the old charity recruitment and management system, in the criteria of techniques, functionalities, and reuse value. Aiming to provide a better comprehend and help the development of new system.

Overall Description

The previous platform mainly aims to provide solutions to problems such as the education problem of child, family disrupt and so on rather than provide financial support.

Techniques

The platform is based on the public account in Wechat while the content is designed as webpages using web techniques including html, CSS, Javascript, PHP and Mysql.

3. Functionalities

The platform has two interfaces: user and manager, for users, there are three subsection of the system: providing helps, request helps and personal profile. At manager interface, the manager of the system can manage user and their activities.

3.1 Users:

There are three subsections of the platform: volunteer activities, support offering and personal information based on the Wechat account. Each button links to a website, where:

a) For volunteer activities section, “Service” part is used to apply for helpnan. “Video and picture materials” is the place which shows the pictures and videos taken during voluntary activities that are memorable. “Member handbook” documents all regulations related to membership.

b) For providing support section, members can choose to provide three kinds of support they want: financial support, knowledge support and other support such as providing sites or goods. Support offer will be verified by manager, and corresponding points will be accumulated to the member’s account.

• Financial support procedure:

1. User transfers the money to the assigned account.
2. User enters the amount of the money that he/she  has donated and submits.
3. The administrator verifies the money and gives  credit to the user.

• Knowledge support procedure: 1. User fills in the template (including voluntary field,

consultant field, self-introduction and available time) 3

and submits. 2. The administrator assigns a voluntary job for the user and notify the user. 3. The user takes the job.

c) In the personal information page, following information of the user should be included: name, gender, birthday, phone number, address, identity (1), credit, joining date, referrer (2). Additionally, there should be following links: applying for a higher identity (3), “my” recommendation, financial regulation (4), and “my” voluntary.

(1) There are five identities for users based on the level of distribution they made: passer-by, members, volunteers, volunteer representatives and council members. (2) Users must register with a referrer. A referrer could be someone has higher identity rank. User should enter the referrer’s phone number. There should be a button to check whether the phone number entered by the user is valid.

(3) Users can only apply for a higher identity when they meet ALL of the following requirements: adequate credit and a referrer with higher identity. After the user submit the

request, it should be verified by administrator before he/she gets promoted. (4) Only users who are higher than volunteers (included) have the access to the financial regulation. The privilege that a user has increases with the level of his/her identity.

3.2 For manager:

Manager is responsible for the authentication for membership application and follow-up and access volunteer activities. Including manage volunteer activities, assign work to volunteer, verify financial support, manage user credit and process user identity application.

1. System Reuse Value

Due to government regulations and business consideration, the philanthropist has redesigned his project therefore user requirements and system requirements changed a lot. Some previous functionalities are removed and various new features need to be added. Also, UI need to be improved to be more advanced and app-like using html5 and css3 techniques.

Although new system has to be adapted to new requirements, software reuse will be necessary due to the consideration of development schedule, the background, skills, and experiences of development team, the platform on which system will run.

4.1 Development schedule

This system is a commercial system and the stakeholder want it to be in use as soon as possible. The initial version of the system need to be completed in one month, as a consequence, old system reuse can minimize the amount of development required and accelerate development.

4.2 Background, skills, and experiences of development team

The previous system was written in html, css, javascript as well as php/thinkphp and mysql, which are all introduced in team members’ second year module. Team members all have experience in developing website using these techniques. This means previous code can be read and comprehended without significant difficulty.

4.3 Platform on which system will run

the new system will run on the same platform as the previous one, weChat public account. It requires webpages properly displaced with weChat browser. The current weChat built-in browser is of WKWebView core in IOS, X5 Blink core, Chrome 37 in Android.

1. Conclusion

The overall structure of the system will be changed a lot hence system will be redesigned and structured based on client’s requirements. User Interface need to be redesigned to be more advanced and user-friendly. The techniques will be implemented will be similar and the platform new system will run is same with the old one. Therefore, the previous system can be reused in component and object/function levels.