iBonus Payment and Loyalty System

iBonus Display on iPad User Manual (1.0.1)

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iBonus Display on iPad User Manual – 1.0.1

Introduction

iBonus is a payment & loyalty system for business owners. iBonus Server and Terminal form the body. iBonus Display, a Self-service Reward Redemption kiosk, is an embellishment to the piece. Retailers manage reward schemes and categorize gifts on iBonus Display for automated redemptions. In addition to managing loyalty schemes, it creates a new channel to broadcast advertisements to potential customers.

About iBonus

iBonus Payment and Loyalty System was started in 2001. Instead of using magnetic stripe card, a "Novelty" became the choice for loyalty and gift cards. Merchants have been using magnetic stripes for decades. They are low in cost and suitable for mass distribution. However, this architecture relies on a real time network and server to operate. Unrestricted card data access causes serious fraud problem too.

Recent contactless smart card technology was chosen for iBonus. Prepaid and point balances are encrypted and protected on card's memory. Authorize, cipher and update; regardless of network status, a transaction completes in 0.5 seconds when a card is waved over. A distinct system design was adapted to suit this offline transaction characteristic.

iBonus presents a simple and easy set up solution. Sophisticated transaction processing, primitive smart card communication and comprehensive card management are encapsulated. A ready-to-go loyalty system is right out of the box. Launching a contactless smart card payment & loyalty system is as easy as turn on a terminal.

Just power up iBonus and start your loyalty program today!

Requirements:

Each iBonus Display for iPad needs an iBonus Reader Terminal that places alongside and locates within the same network. It handles smart card access, prints receipts and dispatches transaction records to server.

- iBonus Reader Terminal can be ordered from Lucky Technology Limited separately (http://www.ibonus.net).
- Receipt printer is not included in iBonus Reader Terminal package. EPSON, Star ESCPOS compatible parallel port receipt printers is supported.

Administrator Configuration

Install iBonus Display App

Install iBonus Display App as standard iPad Apps in iTunes.

Upload gift and advertisement to iBonus Display (iPad)

Gift items and advertisements are uploaded to iPad with iTunes.

Connects your iPad to iTunes. Open iTunes and select the target device. Under the "Apps" tab, find the "File sharing". You will see iBonus Display on the left hand side "Apps". On the right hand side, there is an add button to upload the items.

Upload "jpg" or "png" photos for gift items. Category image file requires a resolution of 140x105 pixels. While gift item needs a resolution of 650x488 pixels.

Advertising clip supports "mov, mp4, mpv, 3gp." file formats. The detailed specifications are as follow, according to Apple's documentation.

*File extension is case sensitive; please use lower case file extension.

*After advertisement and gift items are uploaded, please kill / quit the iBonus Display App to refresh the items in the App.
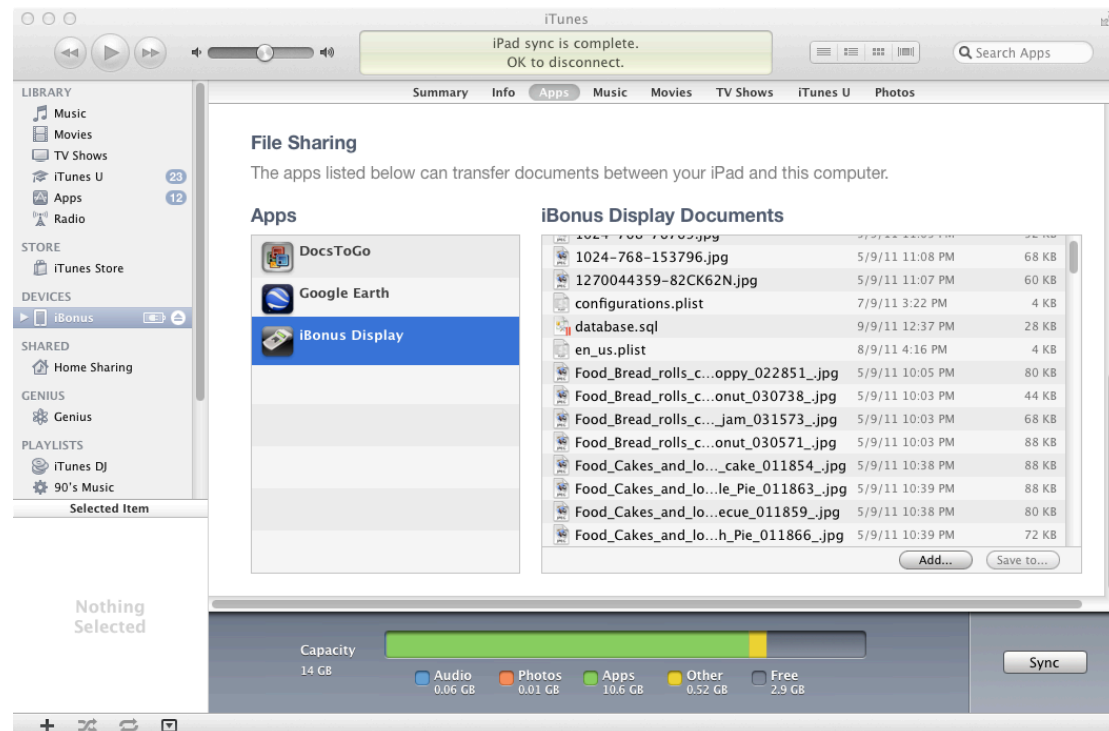
Figure 1 Upload gift item and advertisements with iTunes.

Supported Formats

This class plays any movie or audio file supported in iOS. This includes both streamed content and fixed-length files. For movie files, this typically means files with the extensions `.mov`, `.mp4`, `.mpv`, and `.3gp` and using one of the following compression standards:

- H.264 Baseline Profile Level 3.0 video, up to 640 x 480 at 30 fps. (The Baseline profile does not support B frames.)

- MPEG-4 Part 2 video (Simple Profile)

If you use this class to play audio files, it displays a white screen with a QuickTime logo while the audio plays. For audio files, this class supports AAC-LC audio at up to 48 kHz, and MP3 (MPEG-1 Audio Layer 3) up to 48 kHz, stereo audio.

iBonus Display Setup

To configure iBonus Display (iPad), you will need to enter administrator mode. Hold three fingers on the left side on the advertisement screen for 3 seconds. When you see a "tick" sign on the lower left hand corner. Keeps and swaps three fingers to the right hand side of the screen.
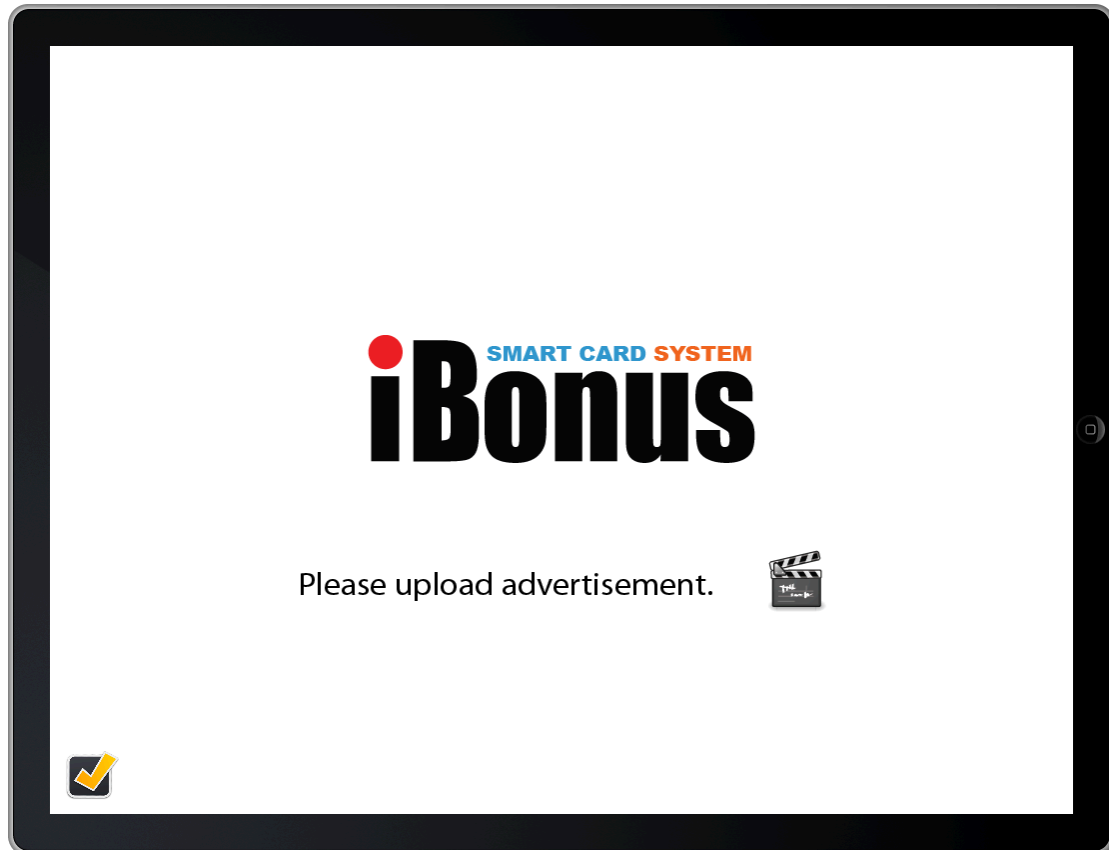

Figure 2 Hold three fingers until a tick sign is shown.

A login page is popped up. Enter the administrator password. The default is no password.
Tips: If password is lost, connects the iPad to iTunes. On the File Sharing tab (the same place to upload gift photos), remove the "configurations.plist" file.
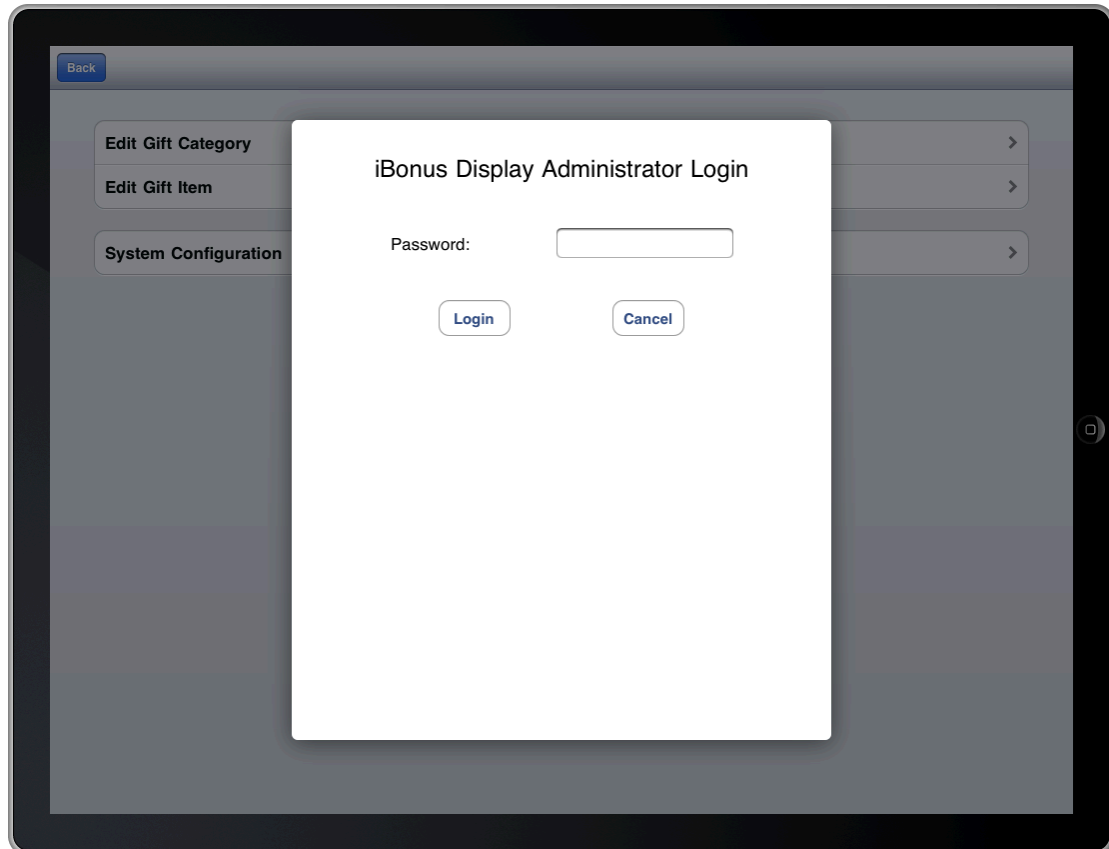

Figure 3 Login to administrator Mode.

Administrator Functions

Under administrator mode, you can create category for which a gift belongs. You can also input gift information and add it to a category.

There is a system configuration menu for setting up a terminal too.

Figure 4 Administrator functions.

Managing categories

Selecting the "Edit Gift Category" bring you an interface to add new gift category, rearrange the order the existing category or removing category.

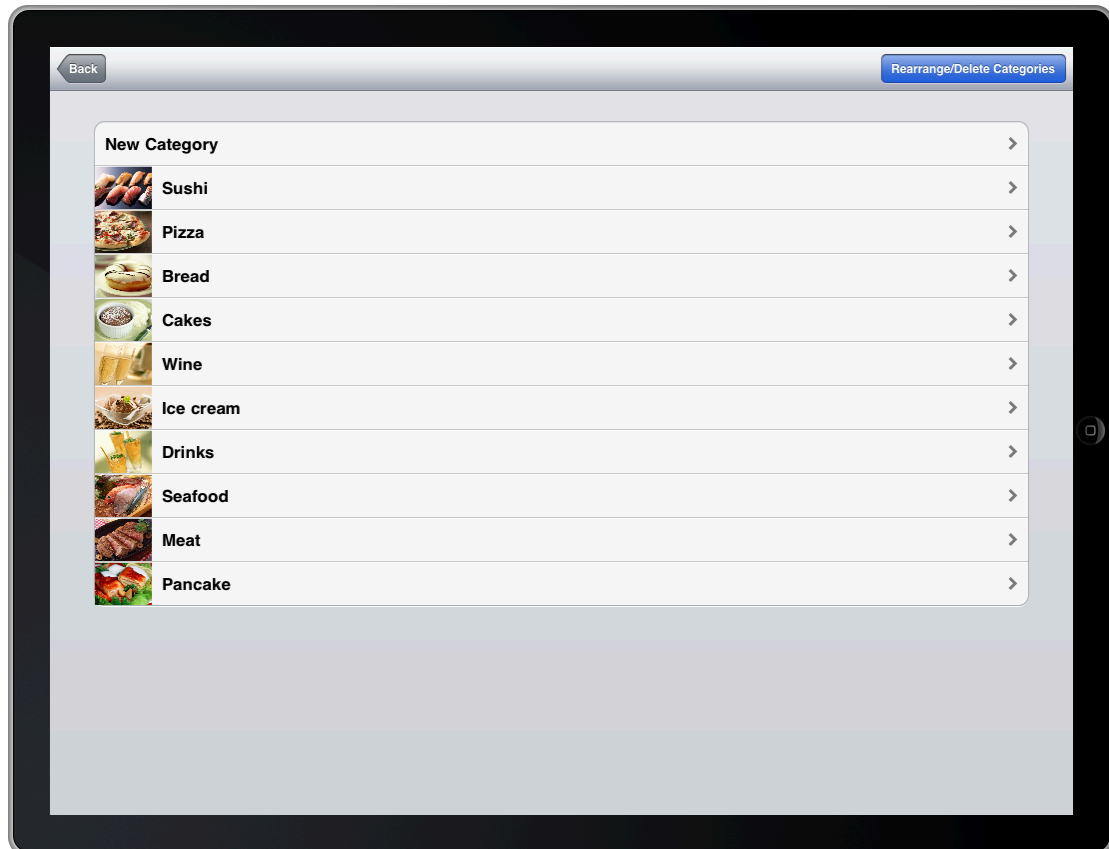You can also arrange the display order of items within a category.

Figure 5 Managing categories.

Adding new category by selecting a category image file and enter the name for the category.
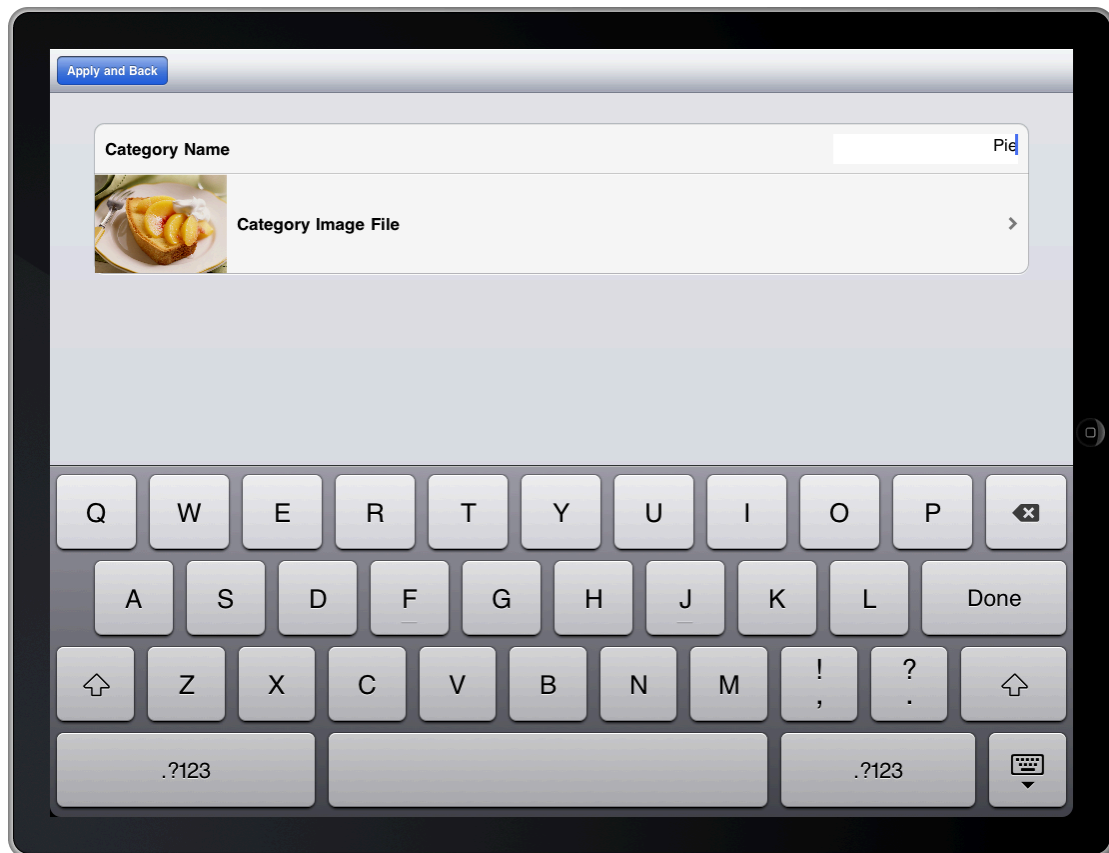
Figure 6 Adding new category.

Going back without completing all the information for a new category will pop up a warning message to cancel the current input.
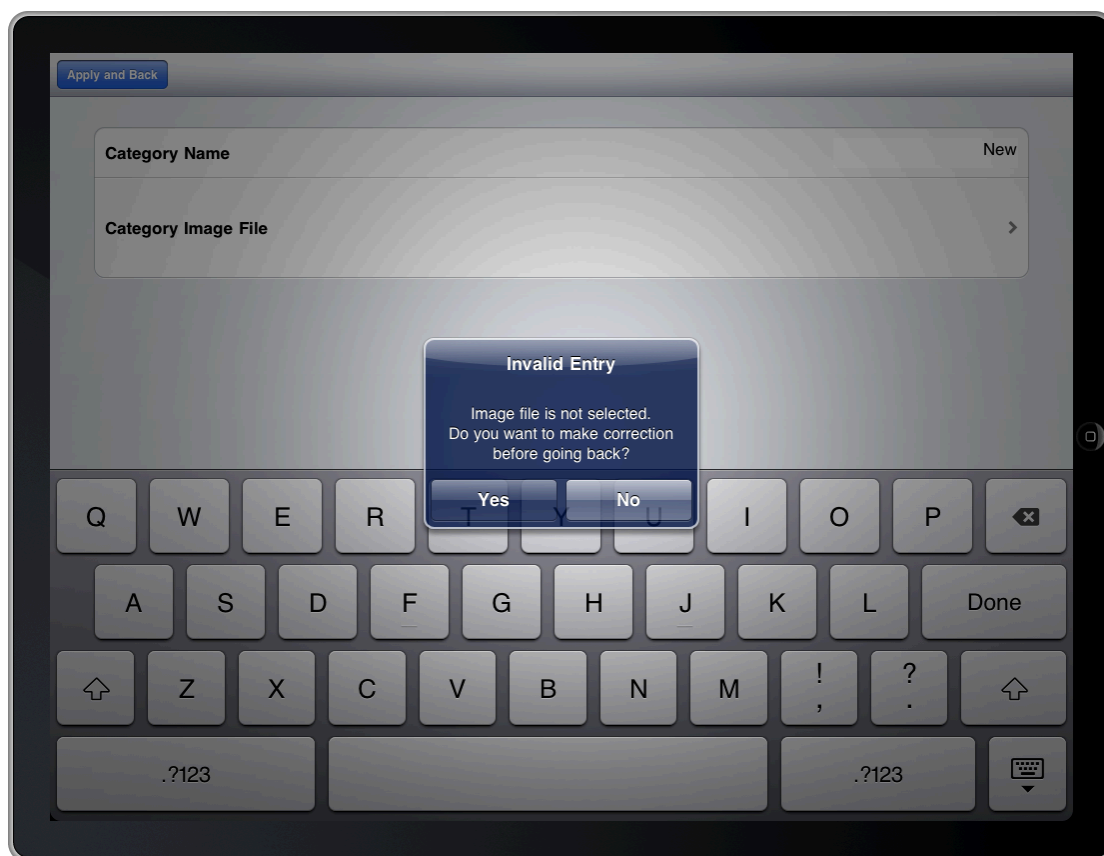
Figure 7 Cancel a new category entry.

Deleting and rearranging categories

On the manage category screen, press the "Rearrange/Delete Categories" to enter edit category mode. Pressing the "-" button activates the "Delete" button on the right.

To change the order of a category, press, hold and drag the "=" on the right to rearrange the category to a different location.
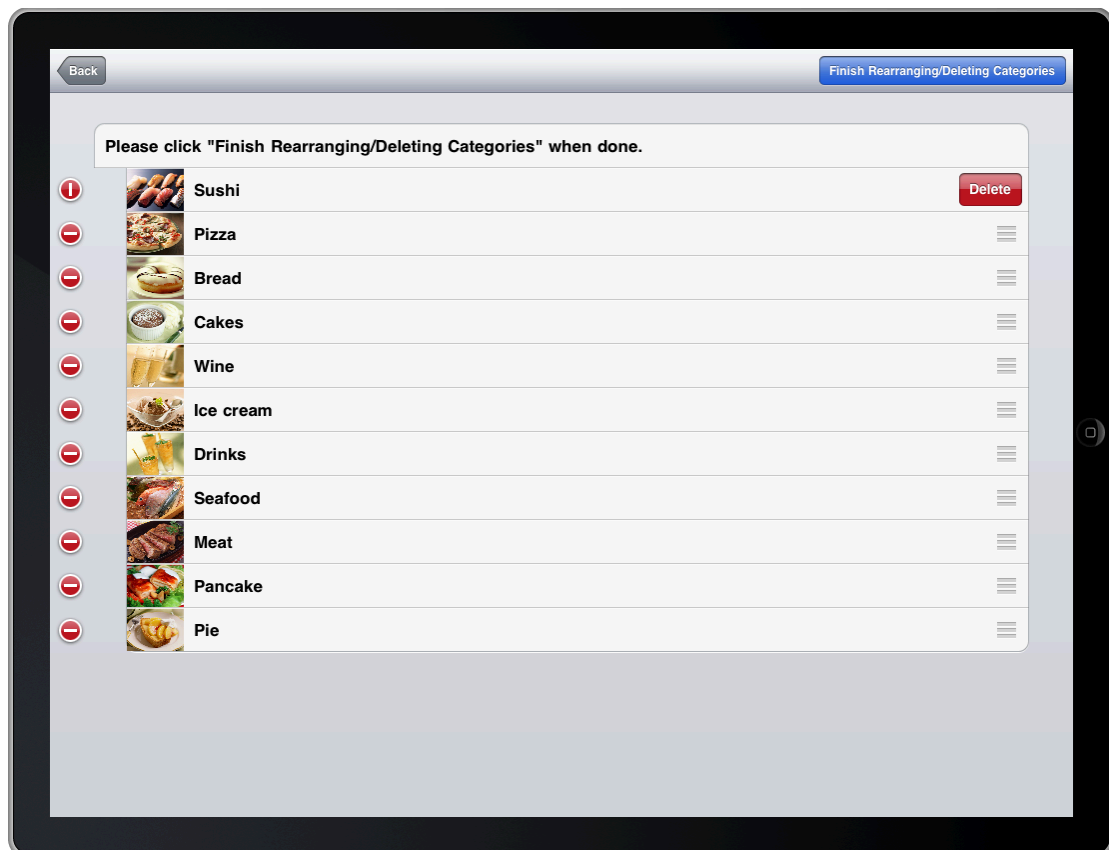

Figure 8 Delete or rearrange category.

After you have added items to a category (see next section), enter the category again and you can change the display order of items within this category.

The same as changing the display order of category, hold and drag the "=" button on the right hand sign to change item display order.
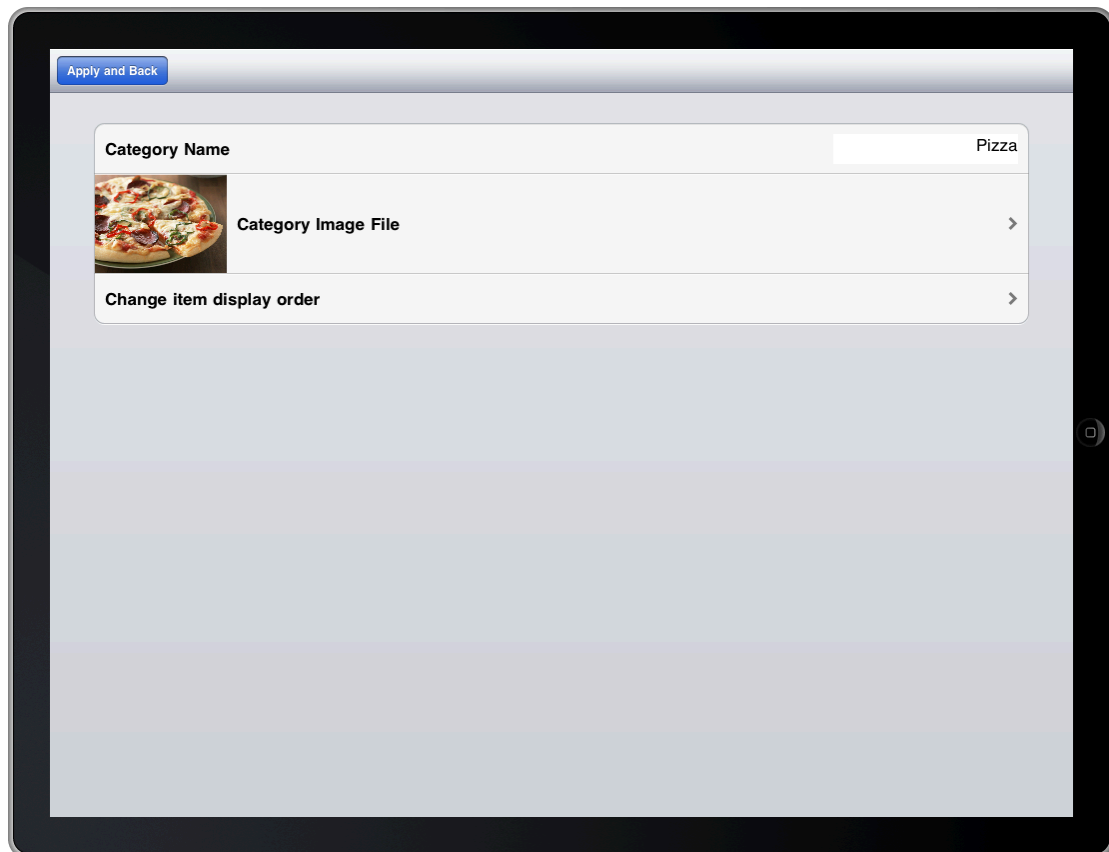
Figure 9 Enter a category again can change display order of item.

Figure 10 Change display order of items with a category.

Managing items

Selecting the "Edit Gift Item" bring you an interface to add new gift item, removing or changing existing gift item information.

Adding a new gift needs to enter, the item code, item image, bonus amount required to redeem the gift and a category this gift belong. You may select multiple categories where this gift belongs.

The item code is printed on receipt (if a receipt printer is attached to iBonus Terminal) and it is sent to iBonus Server for reference.

Without entering all necessary information for an item and forced going back will cancel the entry.

Press "Delete Items" button activate the delete menu. Press the "-" button and a delete button appears. To remove an item, press the delete button. The item image will not be removed.
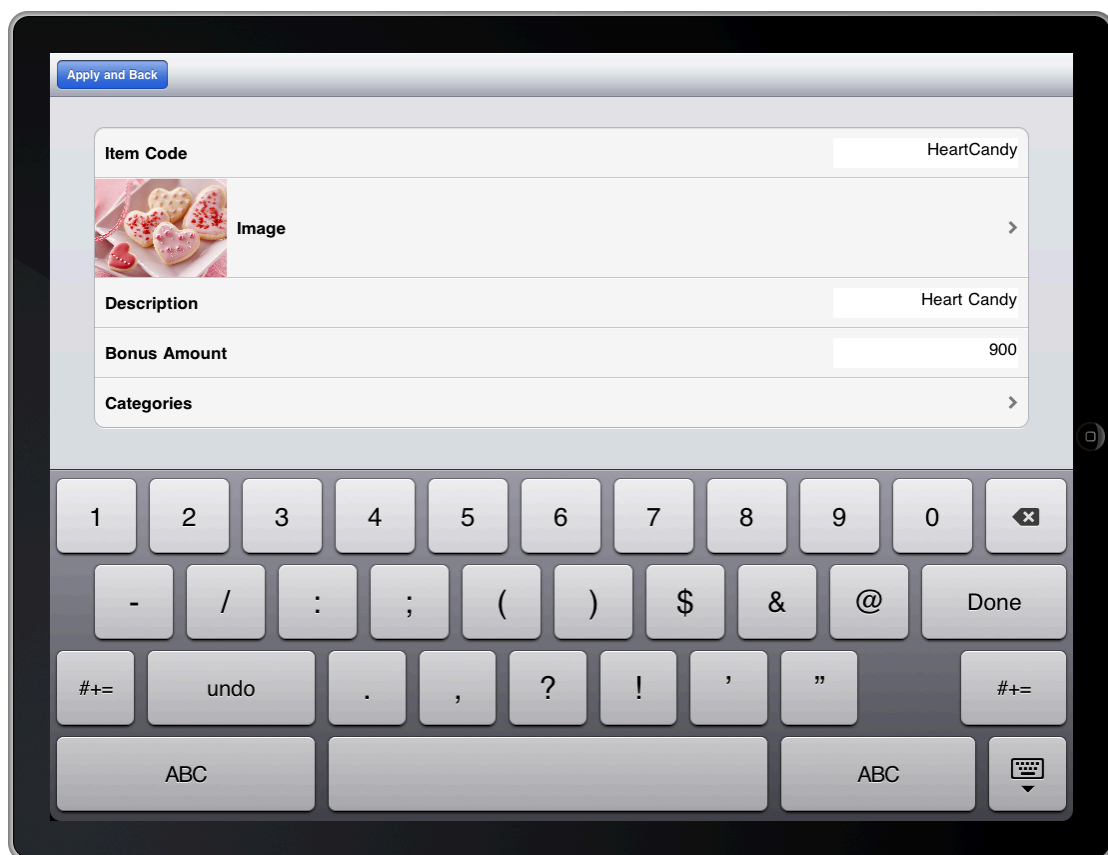

Figure 11 Creating a new gift item.
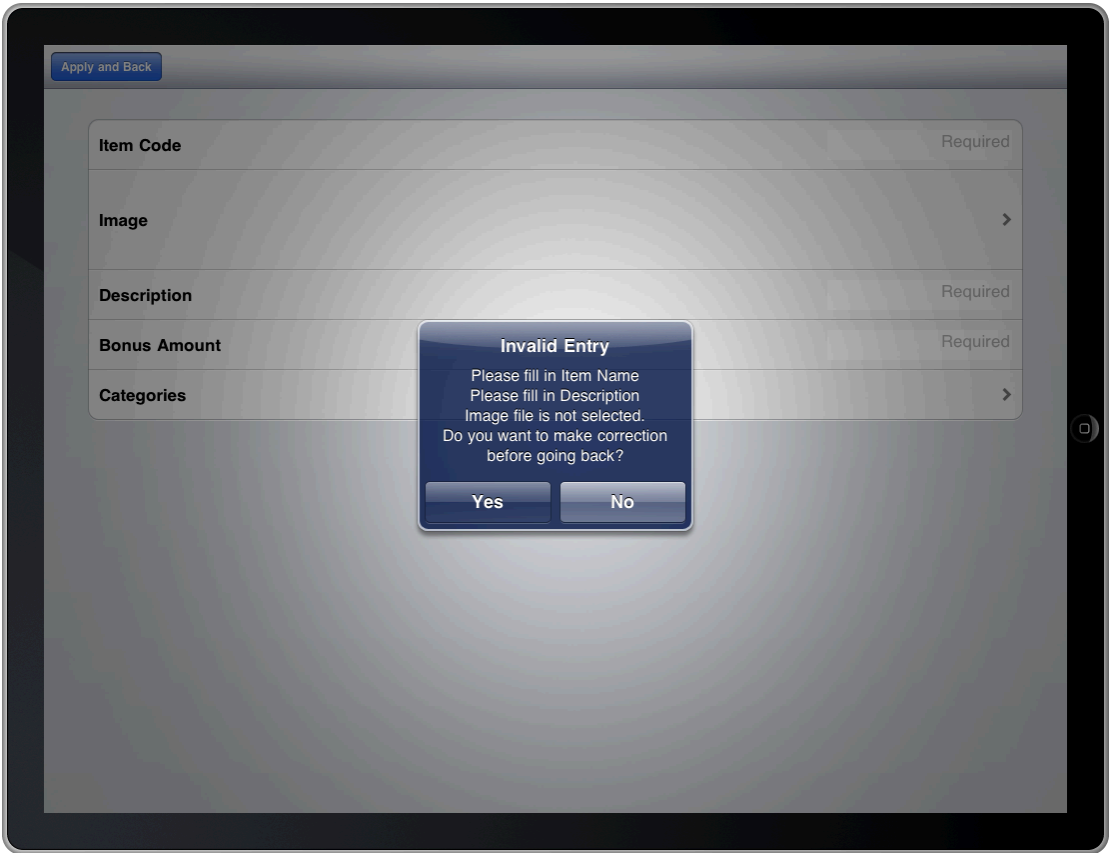
Figure 12 Select a category for an item.

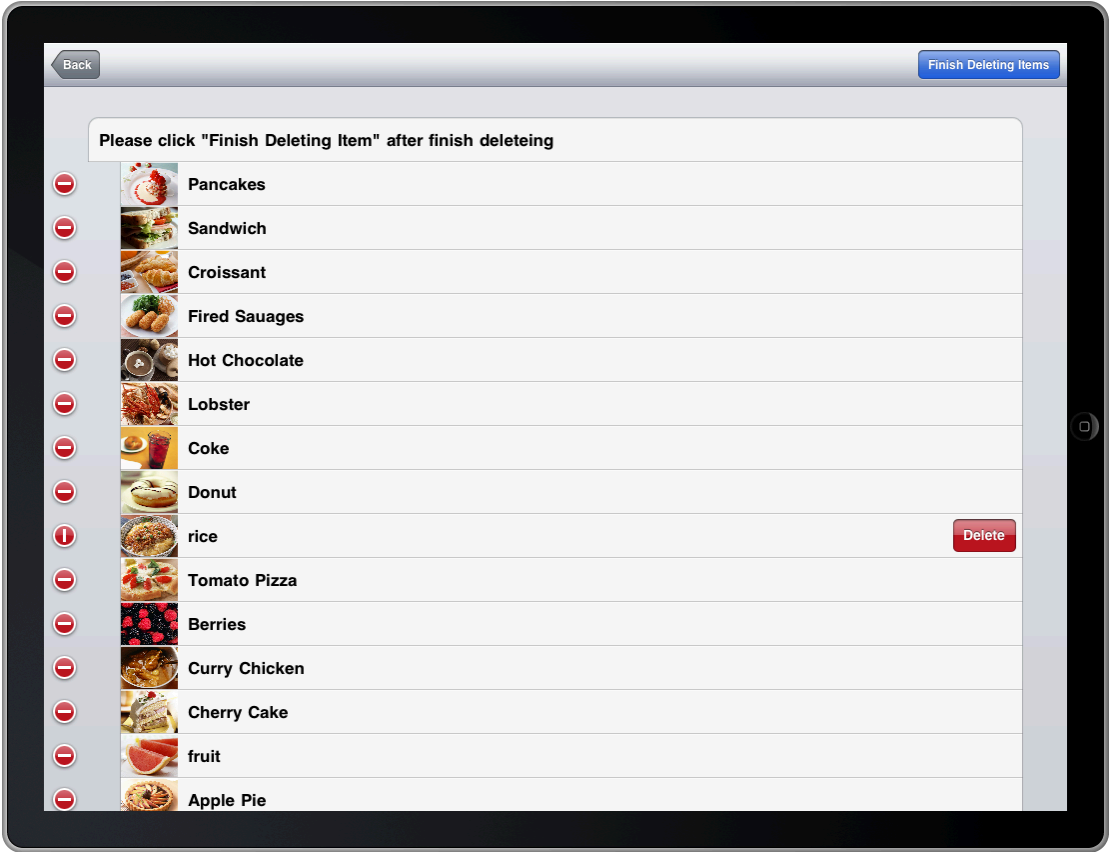**Figure 13 Cancel a new item entry.**

Figure 14 Removing a gift item.

System configuration

Under system configuration, you can setup the iBonus Terminal IP address, changed the administrator password and change the interface language.

Figure 15 System configurations.

To work with iBonus Display (iPad), an iBonus Terminal requires firmware version of 4.0.8214.

Enter the terminal IP address, which locates in the same network of your iPad. After pressing the test button, it will try to communicate with the terminal. If it is successful, the serial number of terminal will show up.
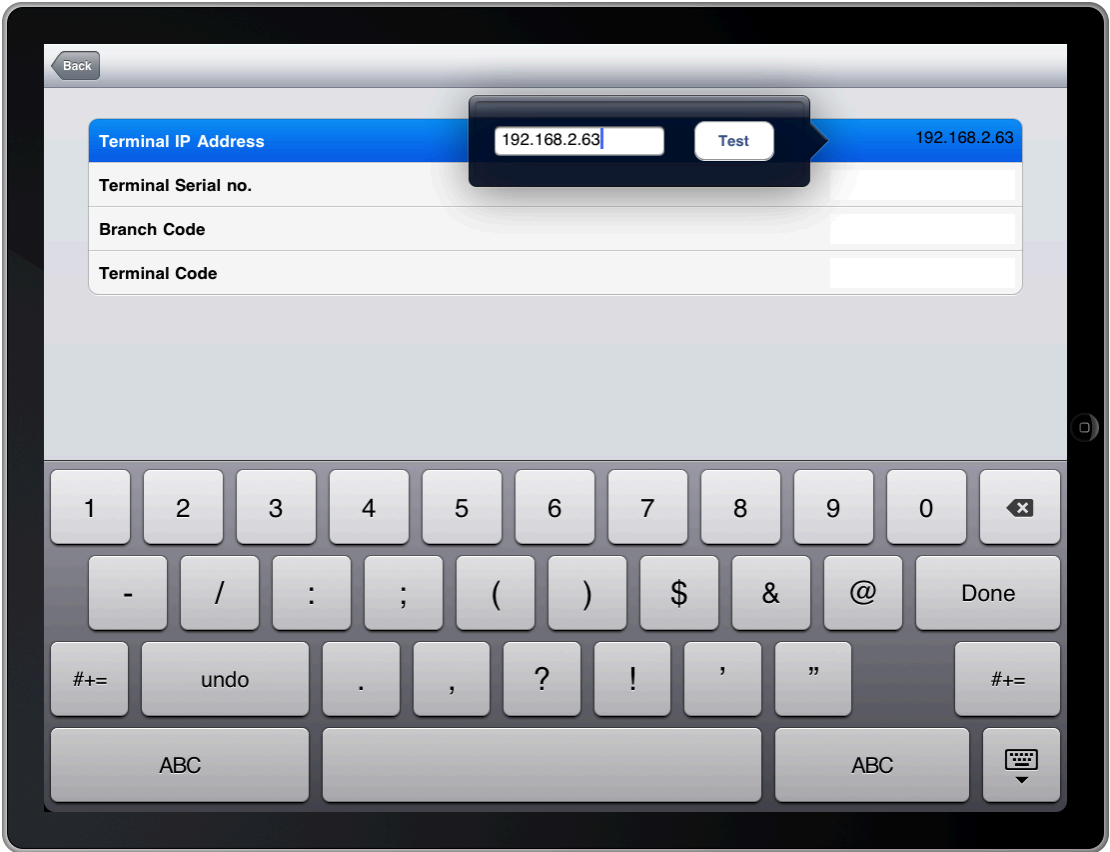
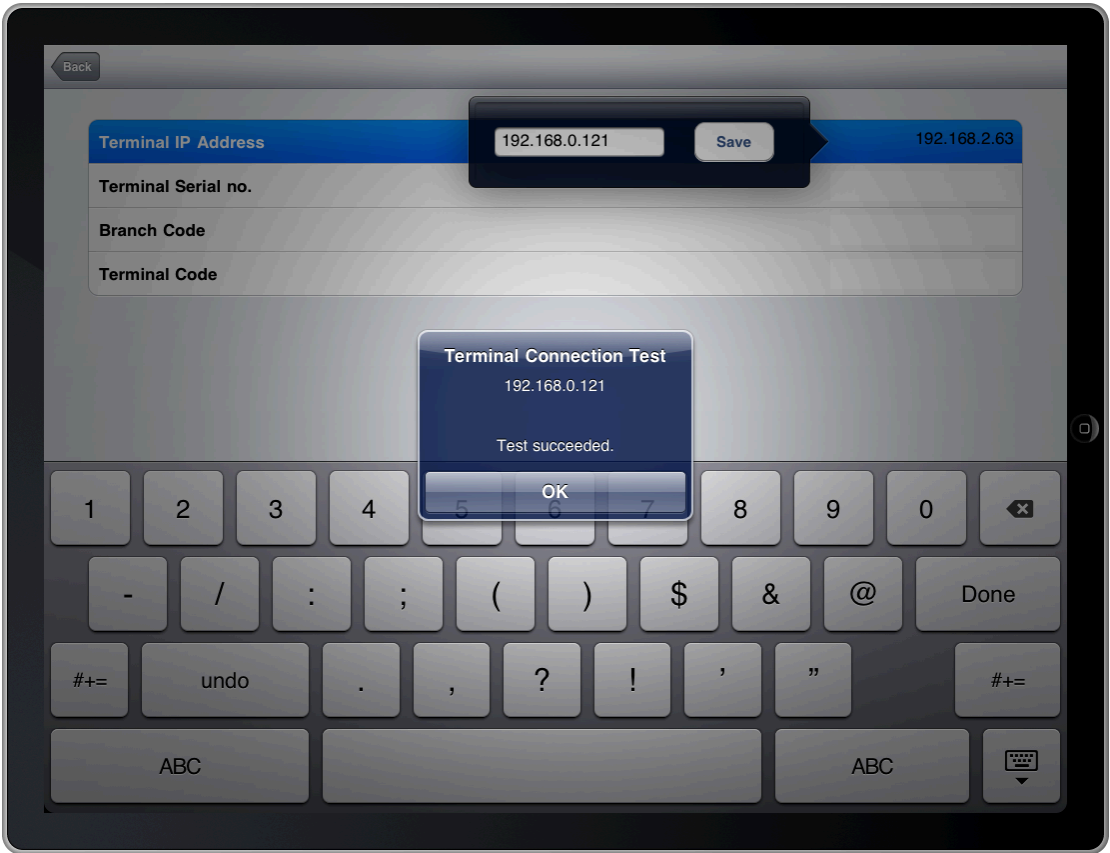**Figure 16 Enter the terminal IP address and test.**

Figure 17 Test terminal succeeded.

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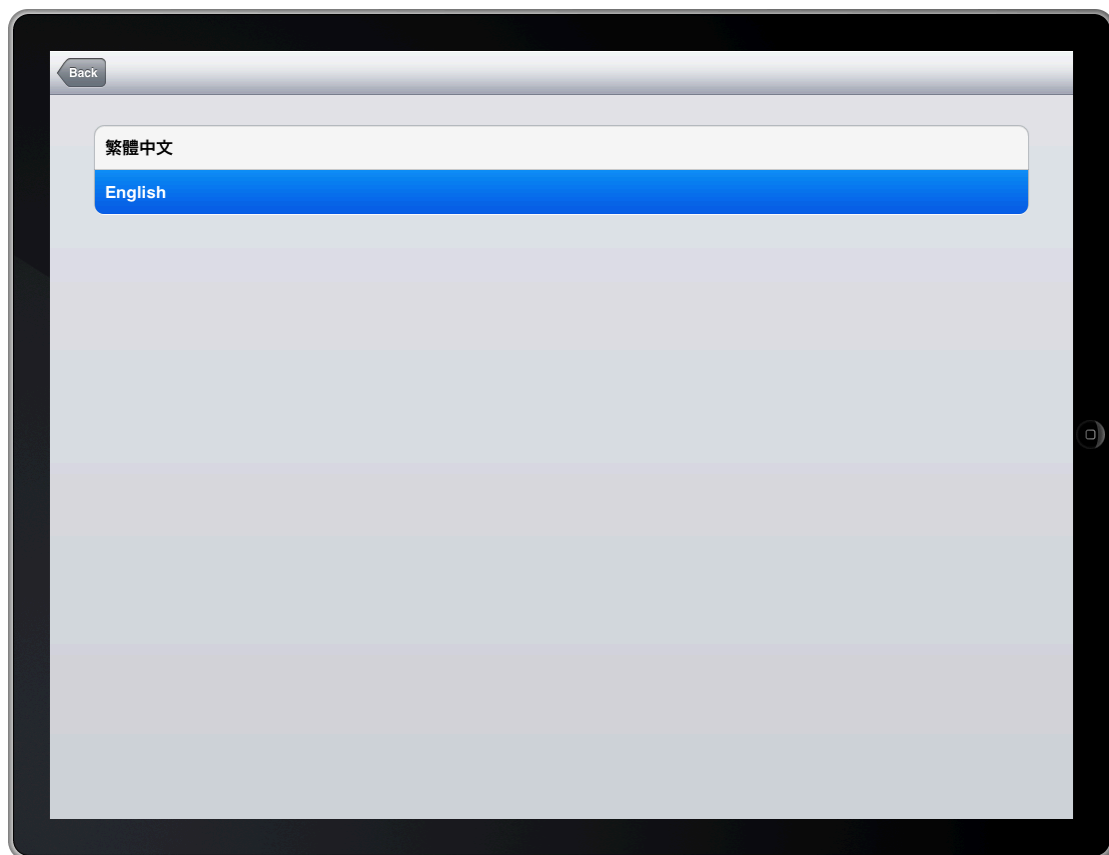
The user language can be changed.

Figure 18 Changing the default language.

Customizing iBonus Display

The background image, prompt message image background can be changed. Go to the iTunes, under File Sharing where gift images are uploaded, you will find the en_us.plist. This is the file that stores the look up of background images. Upload background images according to the file name to iPad in order to change the background accordingly.

NoAdsImage
NoCategoryImage
NoItemInCategoryImage
WelcomeBackgroundImage
ThankYouBackgroundImage
PresentCardBackgroundImage
TerminalErrorBackgroundImage
SuccessBackgroundImage
TimeoutBackgroundImage
WaitForTerminalBackgroundImage

The messages also appear in this file, change the text as required.

If you want to create a new language for users, open configurations.plist and create a new entry under "Translations". Enter a key (name) and a value (file name). A file similar to "en_us.plist" has to be prepared. The file name will use the value that was entered in configuration.plist. Once it is completed, it will appear under the administrator language setting menu.

The color of text can be changed too. They are configured at theme.plist, those values are in RGB format. For example, a yellow color in RGB is #FFFF00 (Hex), in decimal the value is 16776960. Enter the decimal value in theme.plist to change the color. Enter -1 for transparent.

Welcome screen color settings in theme.plist

Welcome_greeting

Welcome_bigValue

Welcome_bigLabel

Welcome_cardSN

Welcome_custID

Welcome_expiry

Welcome_storeInfo

Figure 19 Welcome screen label locations.

Gift Selection color settings in theme.plist

Selector_custID

Selector_background

Selector_pointBal
Selector_pointBalBG

Selector_categoryHead
Selector_categoryBG

Selector_categoryHighlight

Selector_categoryDescHighlight

Selector_categoryDesc

Selector_categoryFrame

Selector_categoryList

Selector_allItemHead
Selector_allItemBG

Selector_allItemFrame

Selector_allItemHighlight

Selector_allItemList

Category

Member   60000   47,082 Pts

Gift List

Pizza

Bread

Cakes

Sushi

Tomato Pizza   700 Pts

Select   Exit

Figure 20 Selection screen label locations.

Selector_descript

Selector_cart

Selector_currItemBG

Selector_exit

Selector_amount

Finish screen color settings in theme.plist
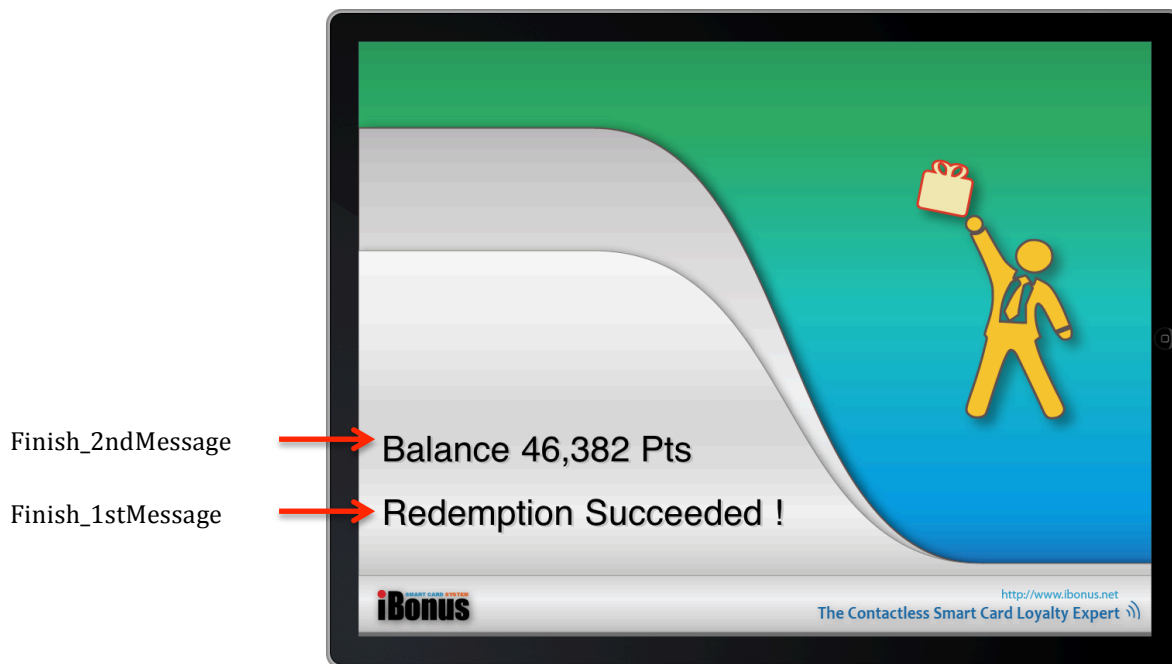
Finish_2ndMessage

Finish_1stMessage

Figure 21 Finish screen label locations.

Confirm screen color settings in theme.plist

Figure 22 Confirm screen label locations.

Confirm_descript

Confirm_amount
Confirm_amountBG

Using iBonus Display (iPad)

When iBonus Display is set up, it is ready to use. Tap a member card on terminal that already linked to iBonus Display. The following screen shows up, displaying the bonus point balance. Push "X" to exit or "->" to next screen.

Welcome to iBonus System

You have 47,082 Pts

Stored Values $15,869.61

Card No.: 2111909922

● **Member ID is 60000**

● **Membership does not expire.**

Branch 15 - Terminal 100

iBonus
SMART CARD SYSTEM

http://www.ibonus.net
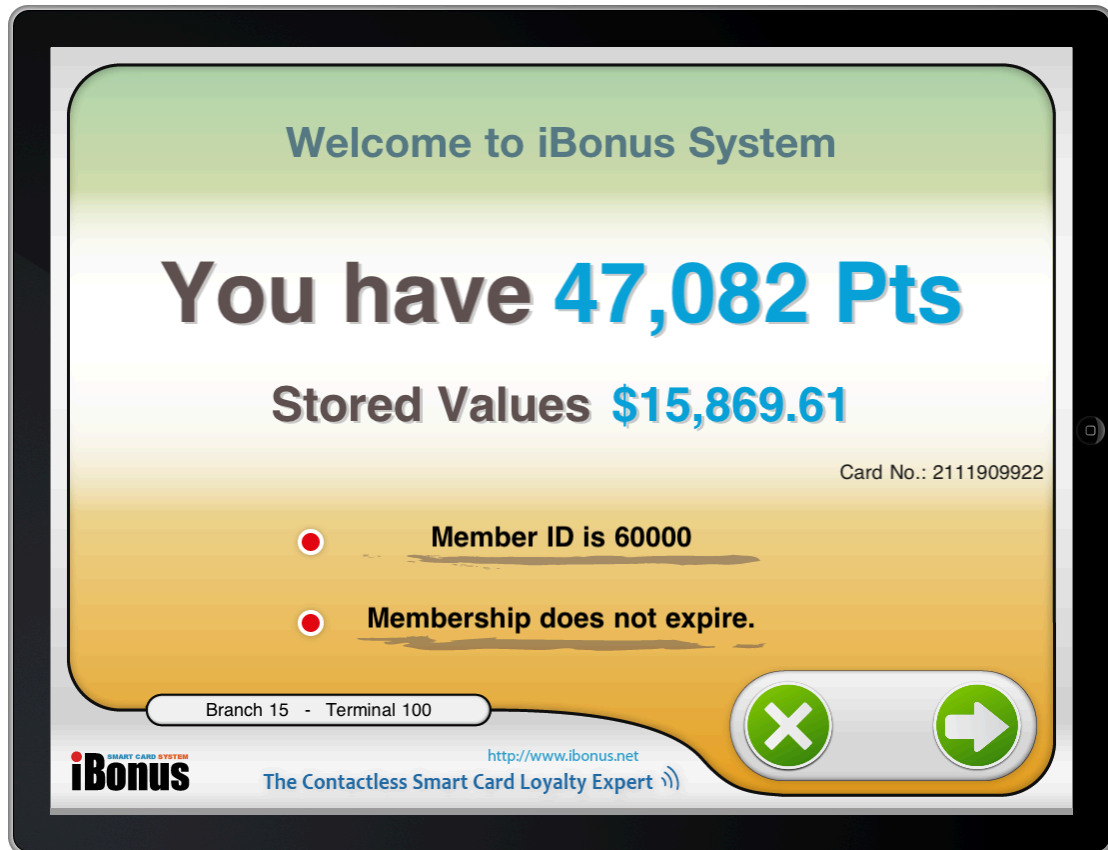The Contactless Smart Card Loyalty Expert

Figure 23 Checking card balance.

The next screen shows redeemable gifts in categories. Click the left, right arrows to switch items in the same category. Dragging the item to left or right also goes to previous or next item. Clicking on the gift on "Gift List" jumps to the gift immediately.

If there is no action, gift will show one by one until reaching the end of category. When there is no more gifts, the session ends.

Figure 24 Display available gifts in categories.

Clicking the "Select" button pops up a confirmation screen. Click tick to confirm or cancel to back to the selection screen.

Figure 25 Confirm your selection.

Tap the same card on iBonus Reader Terminal to complete the transaction. Or click the "-" button to cancel.

Figure 26 Tap your card to checkout.

If the member card is valid and transaction completes, the remaining bonus points will show.
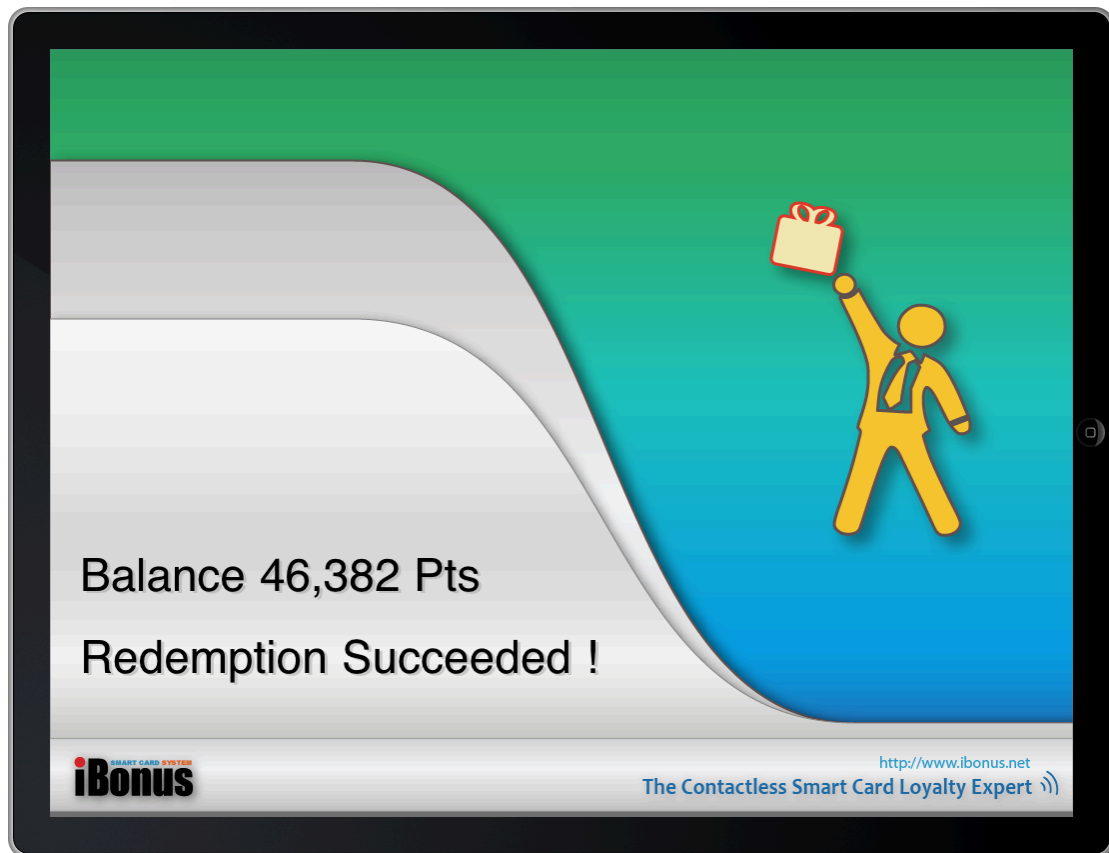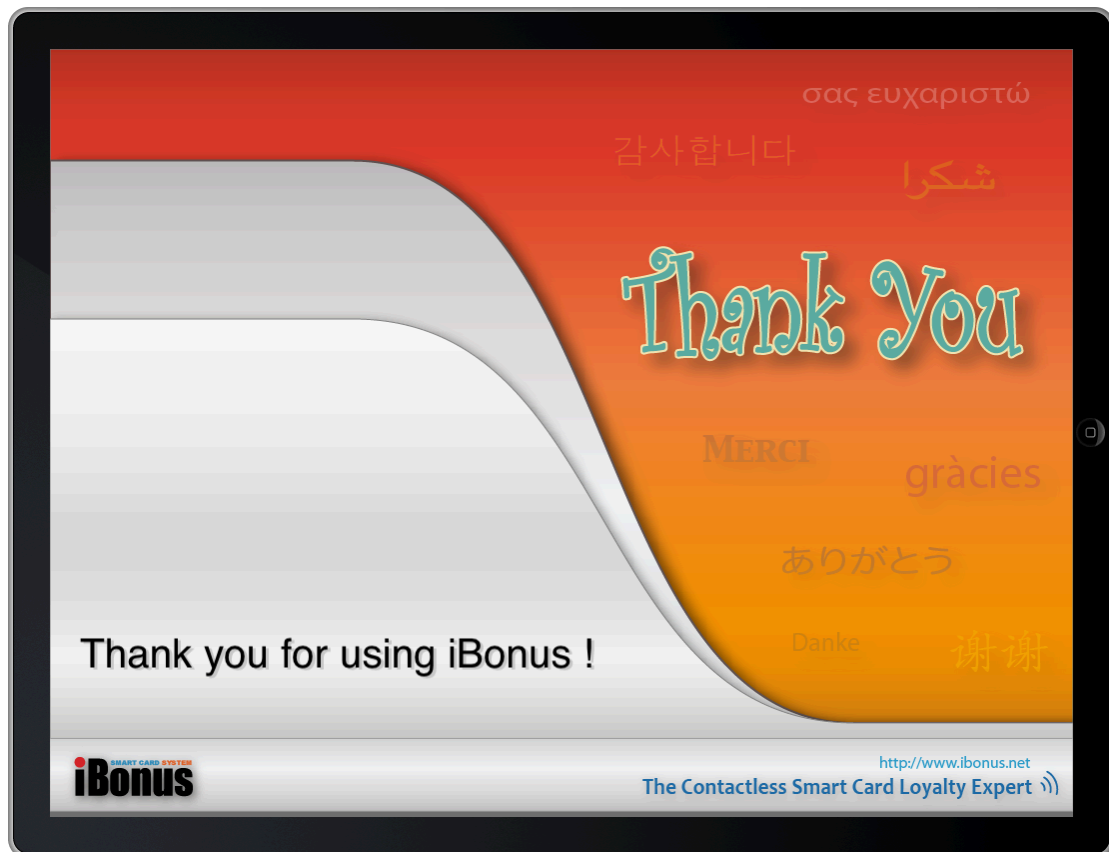

Figure 27 Redemption succeeded.

Figure 28 Thank you for using iBonus.

If there is no gift available for the member (the member do not have enough bonus points), the following screen shows.
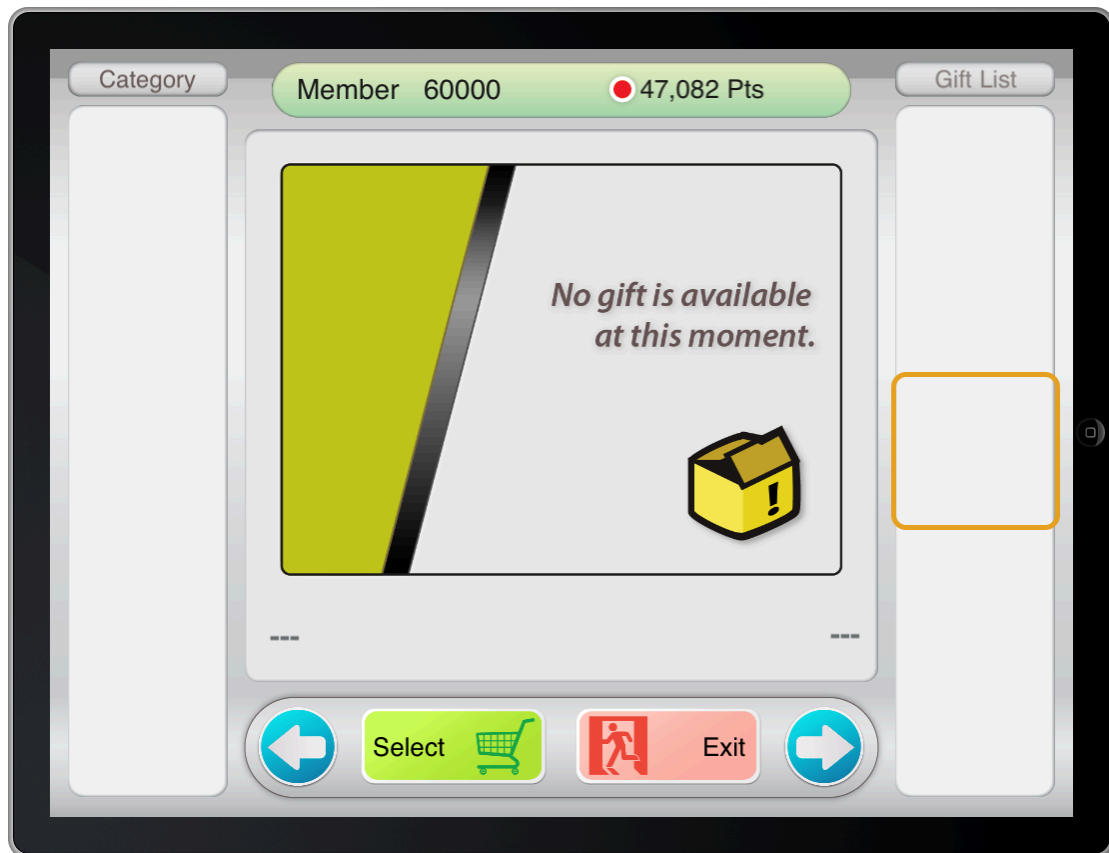

Figure 29 No gift is available.

Figure 30 No gift available under this category.

Appendix

Changes

1.0.1   Add table of contents.
Manual for customizing iBonus Display.