CMPT 275 – Requirement Document iRemember

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Table of Revisions

Figure 1

Revision	Status	Revision Date	Revised by
1.0	Created requirements plan document.	September 27, 2012	Matt Numsen Jake Nagazine Nicholas Pan Charles Shin Steven Tjendana
2.0	Added all sections.	October 6, 2012	Nicholas Pan Charles Shin
3.0	Revised by entire group.	October 9, 2012	Matt Numsen Jake Nagazine Nicholas Pan Charles Shin Steven Tjendana
4.0	Addressed typos and content changes.	October 10, 2012	Matt Numsen Jake Nagazine Nicholas Pan Charles Shin Steven Tjendana

Figure 1 shows the Table of Revisions, which contains a revision number, status (description), date, and author for each revision made to the document.

Introduction

If you forget, don't worry; iRemember.

iRemember is an iPhone application targeting people of all ages who struggle with memory impairment. It will allow the user to use an existing photo, pick a photo from the phone's memory, or take pictures throughout the day, and tag them with notes, descriptions or even drawings. iRemember will then store all the images and information for the user to view at their leisure, either by flipping through recent days or view all pictures with certain tags.

Intended Audience List

Our application aids people affected with memory-loss, initially addressing amnesia and later broadening the scope to general memory-loss. We specifically set our focus on amnesia to help alleviate their difficulties from memory-loss. Our scope is not only limited to people with amnesia, but also provides benefits to seniors who struggle in remembering. In order for this application to work as expected, we assume that the user has capability in using a smartphone but suffers from memory-loss.

For the target market of our application, we are limiting language to American-English and we will aim for the software to be used by people older than five years old who suffer from memoryloss. We will strive to make our application as simplistic and intuitive as possible by limiting the complexity of the software; simplifying processes will broaden our target range. We believe that if we strive to cater to our intended audience, our application will be effective in aiding people from memory-loss.

We will assume that our typical user will fit the following details:

- Technology Experience: Moderately experienced iPhone user (can use the device, call, and navigate around simple applications).
- Age: Intended for ages above five years old
- Language: English
- Handicap: Amnesia and general memory-loss
- Goals: Improve recollection of memory.

Features/Functional Requirements

#	Feature	Description	Priority
1	Take a picture	Use the built-in camera on the device to take a picture and store it in a designated album	A
2	Ability to geo-tag picture automatically	Save the location when the image was added	A
3	Ability to add descriptive Tags	Add multiple single word descriptions for searching purposes	A
4	Ability to add a text description to the picture	In addition to adding tags to pictures, more descriptive text can be associated in the form of "notes".	В
5	Ability to share the picture on Facebook	Allows the user to share the picture to his friends by posting to the users Facebook account.	В
6	Ability to search Tags	Allows the user to search pictures based on the descriptive Tags they have added	A
7	Edit picture	Enables the user to edit the picture that they had taken	С
8	Ability to crop picture	Allow the user to resize the document at any point after it has been taken.	С
9	Put the picture on folder	Put pictures into folders based on the date taken (different folder for different month) or based on location (different folder for different location)	В
10	Slide show	Show the pictures in a random order	С

Note:

A: highest priorityB: less priorityC: lowest priority

Non-functional Requirements

Our team has come up with a detailed list overlooking operation of our application, which is as follows:

- Availability: In our first phase, the application uptime will rely on the user's usage and device usability (i.e., battery life and overall condition).
- Efficiency: Storage space will rely on the available memory from the user's device. In terms of utilization of memory, we will attempt to minimize any increase of memory on the user's device.
- Portability: Support for Apple iPhone devices running iOS 5.1 or greater, due to our scope of developing for the XCode 4.4 framework.
- Integrity: Security for our system will rely on the user's discretion of privacy. Due to our target market of those affected by memory-loss, we decided to simplify processes that require memorization.
- Reliability: Capability of the application is to have persistent data, always available, and that the application itself is unlikely to fail or have performance issues.
- Scalability: Scaling the application will rely on the user's device storage.
- Usability: Ease-of-use is a priority requirement on our system due to our age scope and disability limitation.

Example Tutorials

Signing Up

Our system will have a simplified signup process that will not require any memorization information from the user. Initially the user will be prompted with a call-to-action button that will start this automated account creation process. The following is a user workflow in account creation:

1. Press the **Get Started** button.

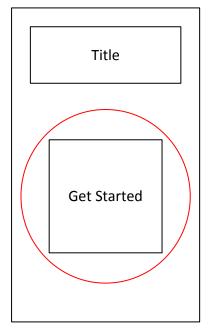


Figure 6.a.1 shows the initial start screen of the application, if no account is found on the device.

- 2. User will be prompted to a spinning wheel while the system is automating the user creation process.
- 3. After your account has been created, the user will be greeted with the main navigation screen as seen below.

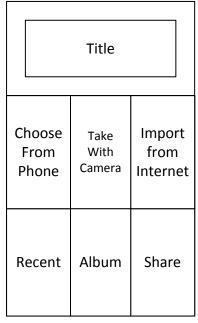


Figure 6.a.2 displays the application's main menu screen with options displayed to the user.

Logging In

Following our streamlined user registration process, we decided that the importance of limiting memorization by the user is a priority. We came to an agreement that requiring a user affected by memory-loss to memorize a password is counter-intuitive. Instead, decided on a system that requires no memorization by the user, which will display the main menu selection screen .The following image depicts the screen displayed to the user upon running the application:

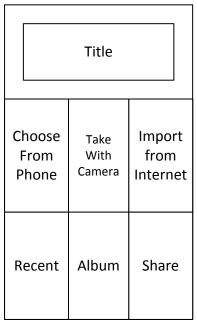


Figure 6.b.1 displays the application's main menu screen with options displayed to the user.

Creating a tag to an Image via the Camera

Once the account has been created, the user will main menu. From here the user may do the following things

1. Touch the "Take With Camera" button.

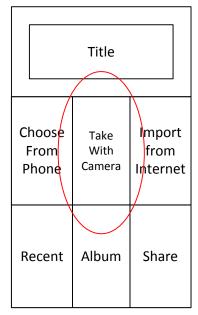


Figure 6.c.1 displays the application's main menu screen with the selected "Take With Camera" button to press.

- 2. Take any photo with the device's camera.
- 3. Photo will be automatically saved to the device and an image mark-up screen will automatically appear.

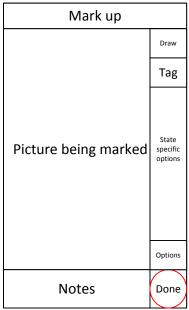


Figure 6.c.2 displays the mark up screen with selected "Done" button to press.

4. Press "Done" button to save the image.

Marking-up and Tagging Images

1. After you have uploaded a photo through any means into iRemember, you can begin marking it up. The mark up window will open automatically after uploading a photo, but if you want to mark up a previously uploaded photo simply touch it in the Album. (There is a button to get to the album on the home screen of iRemember.)

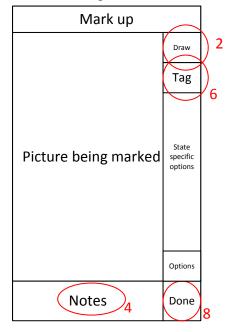


Figure 6.d.1 displays the mark up screen.

- 2. To start drawing, click the "Draw" button.
- 3. You may now draw with your finger over the photo. Choose brush width and color in the menu on the right. You may also add text directly onto the photo.
- 4. To add notes, touch the "Notes" field.
- 5. You may now type with the keyboard any notes you want associated with this picture. These notes will be displayed below the picture when viewed in the gallery.
- 6. To add tags, click the "Tags" button.
- 7. Tags are one of the most important functions of iRemember. They allow you to group and look up photos based on keywords, which makes searching for tagged images easy. It is important to be specific but not too specific. If you have too many tags, it will be hard to sort through them all!
- 8. Press the "Done" button when you are done marking-up the images. Your changes will be saved and you will be automatically sent to view the picture with new markings in the album.

Importing Pictures from the Internet

Import pictures from the internet and used these pictures to add tags.

1. Press "Import From Internet" button.

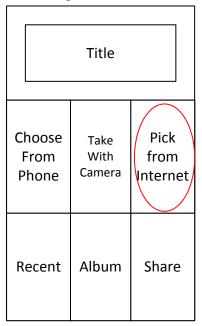


Figure 6.e.1 displays the application's main menu screen with the selected "Pick from internet" button to press.

2. Next, enter the URL of the picture you want to import and press "OK" button.

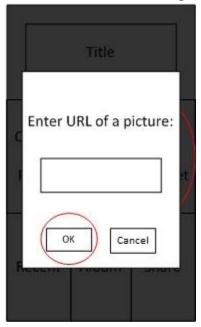


Figure 6.e.2 displays the pop-up window for user to enter URL of a picture.

3. Photo will be automatically downloaded and saved to the device and an image mark-up screen will automatically appear.

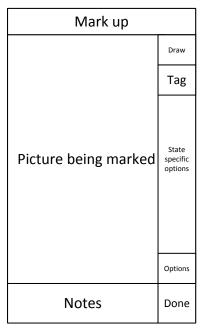


Figure 6.e.3 displays a mock-feature to allow users to mark-up an image.

- 4. By default, the "Time Taken" data is set to uploaded date. You can change this for searching purposes if you desire.
- 5. Press "Done" to save the image.

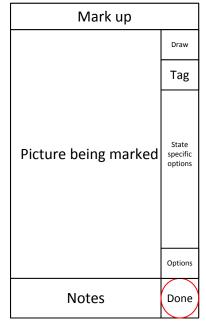


Figure 6.e.4 displays the mark up screen with selected "Done" button to press.

Viewing Pictures in the Album

The user can view saved pictures in the album and edit them.

1. Press the "Album" button on the homepage to access your album.

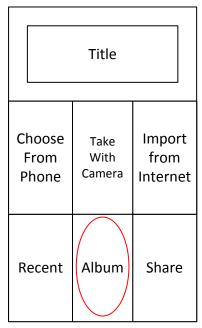


Figure 6.f.1 displays the main menu with the "Album" selected.

- 2. In the Album screen you can see all of your tagged pictures displayed as thumbnails in chronological order. However, there are more options.
- 3. Push "Search by Tags" to search for pictures or groups of pictures based on tags. A list of tags will be generated, ordered from most to least used.

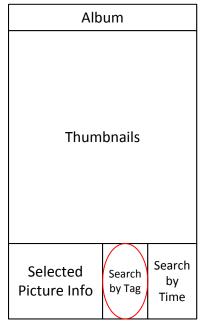


Figure 6.f.2 displays searching feature, which has "Search by Tag" selected.

4. Click the "+" next to a tag; all pictures with that tag will populate the search window. If you click the "-", all pictures with that tag will be removed from the search window. Clicking the "X" above the tag removes it from the search criteria. Pictures enter and leave the thumbnail area as they fall into or out of the search criteria.

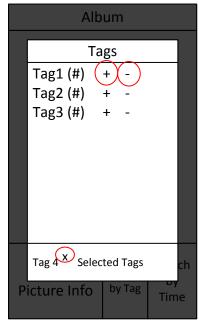


Figure 6.f.3 displays the menu with tag filtering.

5. Push "Search by time", to search for tagged pictures based on time taken.



Figure 6.f.4 displays time range filtering feature.

6. You will be brought to a screen asking for a time range. After entering the range, all pictures from within that range will appear in the search window.

Glossary

- Album A collection of pictures.
- Draw Tags Drawing doodle that is associated to an image.
- Geo-tag Global positioning location associated to an image.
- Internet A global computer network providing a variety of information and communication facilities, consisting of interconnected networks using standardized communication protocols.
- Mark-up Process of modifying and editing an image.
- Note Tags Longer text used for description of an image.
- Recent Tags that were recently created by the user.
- Share Feature to allow document sharing on social media sites such as Facebook.
- Slideshow Ability automatically to navigate through the photo album.
- Tags Short descriptive words that are associated to images in the form of note tags and draw tags.
- Thumbnails Smaller "preview" versions of pictures when browsing the image gallery.
- URL Uniform (or universal) resource locator, the address of a World Wide Web page.