DFS

FlashCard Management System (FMS)

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# Introduction

## Purpose and Scope

This high level document provides the high level principles which will guide the design of Memory Designer.

[! It will be expanded to capture many other aspects of the marketing specification. Please refer to the revision history section]

## Overview

## Conventions

## Related Documents

Table 1 Related Documents

| Doc ID | Title/Description |
| --- | --- |
|  |  |
|  |  |
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|  |  |
|  |  |

## Terminology

Table 2 Glossary

| Term | Meaning |
| --- | --- |
| login name | username (synonymn) |
| username | login name (synonymn) |
| R/o | read only |
| r/w | read write |
|  |  |

# Overall UI

top.jpg

1. Overall UI (links at the top of each page)

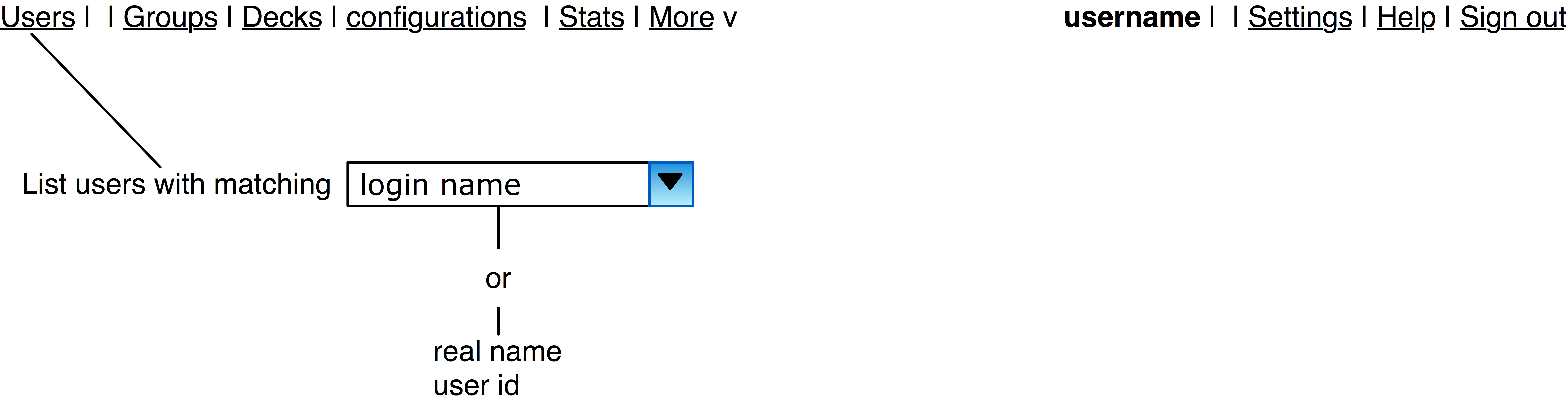
The FMS UI has the following major components which are listed at the top of each FMS page.

| Link | Target and description |
| --- | --- |
| Users | User management page. Admin only. |
| Groups | Group management page. Admin only. |
| Decks | Deck management page (TBD, currently, decks are to be accessed via users.) . Admin only. |
| Configurations | User interface tbd for uploading configurations to users and groups. This might instead be done through the user and groups configuration pages. . Admin only. |
| Statistics | . Admin only. |
| MOre | reserved. Admin only. |
| username | this is the name of the user (not a link) . Admin only. |
| Settings | to the configuration page for the current user. . |
| Help | future |
| Sign out | this logs the user out of the system, removing persistent info from the client browser. |

# User Management

## Find users

When the user clicks on the Users link the "find users" page is loaded.



1. UI for finding users

This returns a list of all the users that match this expression. Regular expressions \* are allowed, as in luc. If no data is entered, then all users are returned.

If the user types the enter key in the field on that page, a search is effected.

The result is to replace the current page with the Users Table specified below.

## User Fields

Users will have the following fields

Table User fields

| Field | Type | Status | Description |
| --- | --- | --- | --- |
| ID | int | R/O | ID hidden from user view |
| Real name | unicode String | R/W | First and last name of user |
| Email address | ASCII String | R/W | Valid email address. |
| Login name | ASCII String | R/O | unique ID. Cannot equal another user's email address. May equal this user's email address. |
| Password | String |  | Valid password, at least 12 characters long, at least one number, at least one letter, at least one non letter/number. |
| enabled | Boolean |  | True if enabled, false if disabled |
| isAdmin | Boolean | R/W | True if admin, false otherwise. |

Each user belongs to a group. This information is maintained in the group table.

## User Management Functions

The following lists the functions for managing users.

Table 4 User Management Functions

| Function | Admin  only? | Description |
| --- | --- | --- |
| addUser | yes | Create |
| deleteUser | yes |  |
| changeUsername | yes |  |
| changePassword | yes |  |
| enable() | yes |  |
| disable() | yes |  |
| getStatistics() | yes |  |
| getEmail() | no |  |
| setEmail(String string); | no |  |
| getGroups( ) | no | Return a list of groups to which this user belongs. Users can belong to zero or more groups. |
| setFirstName() | no |  |
| setLastName | no |  |
|  |  |  |

## User Management Interface

The following is based on Bugzilla 3.x as a reference design.

When the admin users performs a search, return the following table that lists all the users that match the search criteria.

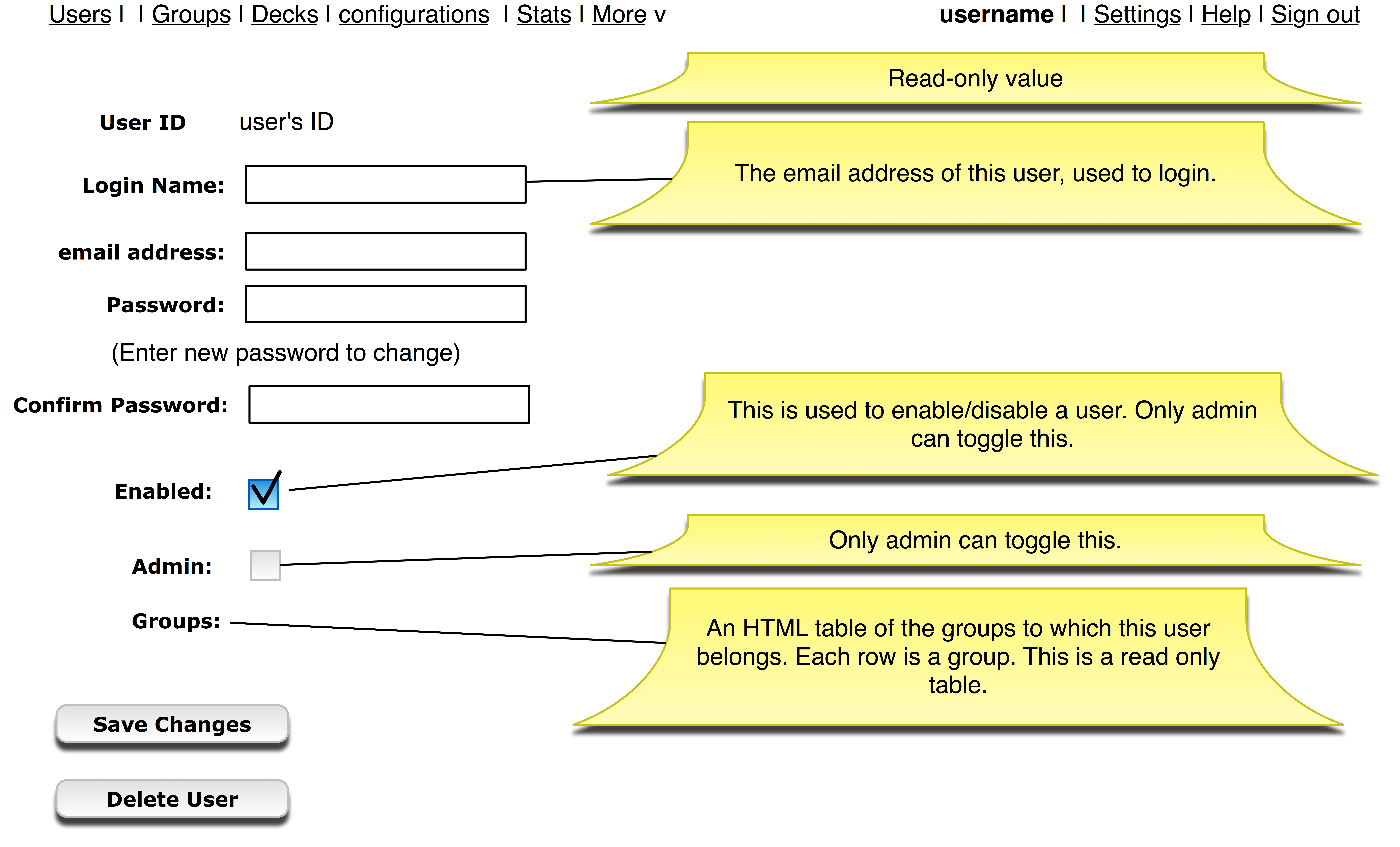
The following table describes the actions that are contingent upon clicking on cells in the given row, i.e., rows of the foregoing table.

Table Users Table

| Column name | Description of effect of clicking on link |
| --- | --- |
| Edit User… | The cells are links. Clicking on one of the cell links brings up the Edit User (not the Edit Users) UI. |
| Real name | These are read-only in this table |
| Delete | Clicking this brings up a confirmation box to delete the user. |
|  |  |

Table Edit User Page

| Field | Type | Status | Description |
| --- | --- | --- | --- |
| User ID | label | R/O | The user ID |
| Login name | label | R/O | A login name |
| email address | text | R/W | email address of the user. validation is done. |
| password | String | W/O |  |
| enabled |  |  |  |
| admin |  |  |  |
| Save changes | button |  | saves the changes |
| Delete user | button |  | deletes the user |
|  |  |  |  |
|  |  |  |  |



1. Edit User Page

# Group Management

This section describes group management capabilities and UI.

FMS has groups for the following reasons.

* In order to run experiments. Groups will correspond to experimental conditions and control conditions.
* To assign different initial decks to different groups.
* To enable parameters (settings) to be applied to groups of users. E.g., one experimental group might have different learning parameters from another.
* Data will be collected for groups of users. (scientific dependent variables)

## Groups Page

The Groups page presents

* The Groups Table a table of all the groups in the system.
* an "add group" button on this page, below the table. Clicking this button brings up the Group Creation Page specified below.

Table “Groups Table”

| Column name | Description and effect of clicking on link |
| --- | --- |
| Name | The name of the group presented as a hyperlink. Clicking this link brings up the group management interface for that group. |
| Description | The description of that group |
| Managers | List of users who can manage this group. At first, this will be all and only the system administrators. |
| Action | Delete. Clicking this link yields a warning, which if confirmed will delete the group. This warning has a checkbox (set to false by default) which allows the user to also delete all the users in this group. Obviously, the latter is quite dramatic. |

Clicking on a group in the Groups Table causes the Edit Group page to be loaded, which allows the user to edit the group in question.

## Group Creation Page

The group creation page allows the user to specify the following

Table Group Creation configurations

| Field | Type | Status | Description |
| --- | --- | --- | --- |
| name | String | R/W | The name of the group to be created. Once set, this will become r/o in the system. |
| Description | String | R/W | A user specified description of the group. |
|  |  |  |  |
|  |  |  |  |

NB, the user cannot add members to the group at the same time as he creates a group. This is relegated to the Group Editing page.

## Group Editing Page

This section describes the Group Editing table. This table allows the user to edit an existing group.

The following elements are on this table:

Table Group Editing Page Components

| Element | Type | Status | Description |
| --- | --- | --- | --- |
| Group Name | Text field | R/W | The name of the group |
| Group Members Table | Table |  | This is a table of all the members of this group. See "Group Members Table" |
| Add users in batch | button |  | Clicking on this button brings up the "Add users in batch" dialog box. See "Add users in Batch" dialog box section. |
| Remove users in batch | button |  | Brings up a dialog box to remove the specified users in batch from this group. Future. |
| Description | text field | R/W | This allows the user to set the description of this group. |
| Download Decks | Button |  | Download all the decks for all the users as a zip file. The zip file has the following format when expanded:  One folder for each user. Each such folder contains each of that users decks. |
| Save Changes | Button |  | Clicking on this button causes the Group name and description to be updated. The "add users" in batch is not affected by this, as batch addition takes effect immediately. |

### Group Members Tables

The group members table shows all the members of the given group as follows:

Table Group Members Table

| Element | Type | Status | Description |
| --- | --- | --- | --- |
| User name | text hyperlink |  | The user name.  Clicking on this links brings up a new window to edit that user. |
| Action |  |  | This contains for each row the button "remove user". Clicking that button removes the user from the given gruop. |
| Group Manager? | text |  | valid values: Yes, no. Yes if admin, no otherwise |
| Toggle Group Manager | link |  | if the user clicks this, then the user becomes a group manager if he is not one, or ceases to be a group manager if he is one. This is for future implementation. |

## Add users in batch

The add users in batch will contain the following components.

Please copy paste the users' information into the following text area. The format is: user name, [last name], [first name], [password], email. To add an existing user to the group, only user name needs to be provided.

Table Add users in batch dialog box

| Element | Type | Status | Description |
| --- | --- | --- | --- |
| Instructions | Text | R/O | The following text will be provided to the user as an instruction, at the top of this page:  Please paste or type the users' information in the following text input field.  Please use the following format: user name, [last name], [first name], [password], email. To add an existing user to the group, only the user name needs to be provided. If the user is already part of the group, their information will be ignored. If there is an error, we will attempt to automatically roll back the entire change.  square brackets above indicate optional text. If no pass/word is provided, it will be generated automatically and emailed to you, the current user. |
| Text input | text input field | Write only | Per the instructions above. |
|  |  |  |  |
|  |  |  |  |

## Recovering lost passwords

Users will be able to recover their lost passwords by accessing a special link, wherein they input their userid and their email address. The password will be sent to them through email.

# Deck Management

FMS decks cannot be shared. Each deck belongs to a single user. However, decks can be replicated (copied to) users.

## Deck Attributes

Deck attributes:

* name. String.
* id. String

## Deck Management Functions

Table Deck Management Functions

| Function | Description |
| --- | --- |
| replicateDeck(string username) | Makes a copy of the deck for the given user |
| replicateDeckToGroup | Replicates a deck to the users of a group. |
| removeDeck | Removes the deck from the FMS |
| renameDeck | Renames this deck. |
|  |  |
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## User Decks Table

The User Decks Table is a table of all the decks belonging to a user.

Table User Decks Table

| Column | Type | Status | Description |
| --- | --- | --- | --- |
| Deck name | Ascii | R/O | Name of the deck |
| Number of Cards | Ascii int | R/O | Number of cards in that deck |
| Date uploaded | Ascii Date format YYY-MM-DD HH |  |  |
| Replicate Deck to Group | button |  | This pops up a window asking for the name of the group. Replicates a deck to all of the members of that group. Report an error if the group does not exist or is the same user |
| Replicate Deck To User | button |  | This pops up a window asking for the name of the group. Replicates a deck to the single user specified by that name. Report an error if the user does not exist or is the same user |

# Outstanding Issues/To Do list

1. .

# Revision History

The following revisions have been made to this document:

Table 14 Revision history

| Version | Date | Author | |
| --- | --- | --- | --- |
| Summary of Changes | | | |
| 1.1 | 2011-03-06 | | LPB |
| First draft. user management, group management, and list and replicate decks within the user interface. | | | |
|  |  | |  |
|  | | | |