OS ePORTFOLIO COMPARISON MATRIX

	Mahara	KEEP	ELGG	DIVA
URL'S	http://www.mahara.org/	http://cfkeep.org	http://elgg.org/	http://diva.sfsu.edu/
CONTENT MANAGEMENT/CUSTOMIZE				
Annotate	Users can add caption, and description (a short note) the uploaded files	Users can add file title, menu title, & a brief descriptive caption onto uploaded files & URL files.	Easily implemented through blogging, some HTML knowledge is needed if doing through "Your Pages"	Yes, can leave comments with uploaded file
Look & Feel	Very easy to change how the portfolio looks like. Unable to change the background and background colors.	Offers basic preset design options to customize the look and feel across the entire ePortfolio. Users will find "Stitched Snapshot" has an advanced layout options that they can opt to enhance the look and feel to 'stitched' snapshots only. Constraint: Limited choices on: font color, type, size and background color. Also, background graphics/images are not available.	Is set by the template. Using your own HTML knowledge you can add pictures etc but can not change the overall design of the site.	A little bit of options, add lists, add picture to top, left, right or bottom of text
Online Content Formatting	There are few options for layout (size of the boxes)	KEEP supports basic Rich Text editor to edit text. Users, however, can also add formatting using HTML Editor - an advance formatting option for rookies to manipulate text file using web development source code, or embedded source codes from 3rd parties.	Blogging gives you some built in functions to change this. Can further edit it within HTML. These changes would have to be made with HTML in "Your Pages"	Yes
Customize/Edit	Rich Text editor, similar to MS word style	Offers basic Rich Text editor, similar to MS word style. Users can customize/edit to layout/content that previously created by others. Alternately, Users can create a custom look and feel from scratch or, can select a starting layout to begin with customization process. Users can customize templates from scratch or modify the existing template to personalize views of individuals' preference. Constraint: Text boxes can be repositioned in a linear fashion but cannot be re-sized (e.g. widen or minimize the size of the box). There is no 'point, drag, drop' features to move the boxes within a template. Users can only repositioning the box using the arrow icons which is time-consuming if a template has more than 4 boxes. If a User accidentally delete something, there is no 'undo delete or edit' options. You have to re-create your lost work.	Blogging allows you to write in a Rich Text editor. Allows formatting as well as linking to external videos and files. Users can easily add pictures as well as making text linkable externally or internally. HTML editing is also available. Creation of new pages is through a HTML editor with no built in formatting and other benefits of a Rich Text editor.	Yes, can arrange data in the way you would like
Source Code Edit Options	HTML	HTML, CSS, Java Scripting language, PHP.	When creating "Your Pages" it allows HTML input (php did not work).	No
Internal Linking	No internal linking: No linking with other views	Users can create link to and from artifacts that are located in various "snapshots" within the ePortfolio. They can also create internal links by "stitching" selected snapshots, and in turn, KEEP will automatically create navigation bar to the stitched snapshots. The navigation bar allows Users to control internal linking to all snapshots that an individual has chosen to display.	You are able to link to your pages using a built in function {{page:}} allowing you to link to a page by its Title and a User's page by Title name	Linking to files, but no real navigation bar options
External Linking	Students can add "Official website", "Personal website", and "Blog Address" through editing contact information of profile.	Users can add external links to external sites. The external linking can be any form of files such a text, images, audio, and video.	Because of the ability to use a built-in HTML editor you can add external links. The blogging section also has built in functions to add in external links.	Yes
Upload	Very easy to upload any type of files	Users can upload a variety of files types, including text, Excel, PPT, PDS, Apple Keynote, RTF, LaTeX, PostScript, and Plain Text; images (JPEG, GIF)), and video clips (QuickTIme, Real Media, WAV, AVI, MPEG, MP3/MP4, Macromedia ShockWave, and Windows Media). Constraint: Upload only one image or video per box. Video needs to compress to under 20MB (20MB = 10 mins). A 10-minute more video play will jam the server. Recommended to decomposs a large video file into smaller, and manageable video segments.	"Your Files" provides a place to upload your files. Through the blogging page you can easily link to these files. Through "your pages" you would need to get the actual link to these files to link to them.	Yes
Total		(note: decent free-form features, although we felt that the CM is somewhat limited in term of creating a signature look and feel that an individual desires to design.)	Various plug-ins already developed for this system	Not e-portfolio/web builder ready
TEMPLATES				There are no templates available, but there are individual boxes for each items
Reflection		"SoTL Templates", "Case Study Templates" or "Blank Templates" provides useful reflection notes to guide Users through a reflective decision process. In addition, each of this category provides further reflective comments to Users. Under "SoTL Templates", and "Case Study Templates", Users can "View Case", "View Templates" examples, and "Use example". Within these examples, there are further reflective comments available for Users to read and reflect. Upon choosing a template, Users can also used text boxes for reflection. Each text box within a template also includes a brief reflection comments to help Users start up or expand there own reflection statement.	Not included, but could be added	No
Career (Attractive publish to web option)	Resume, cover letter, work experience fields	Users can benchmark the "Case Study templates" that includes career/professional templates developed by institutions as a starting point to complete the "Career" template. Alternately, Users can create resume off-site, and upload and save into ePortfolio as part of the customized view.	Not included, but could be added	No
Blogging	Blogging feature is confusing. There is "Add post" feature under each blog?	No	Yes. Built in archive options. Friend's blogs and ability to favorite and comment other blogs	No
Evaluation	There is a "Feedback" button at the bottom of the each view where users can give a feed back to the person	There is no Evaluation rubric features or review tool built in. Users have to develop: (a) their own template/course/ePortfolio assessment rubrics or follow instruction given by their instructors/advisors/mentors to gather evaluation information; or (b) Users send off (attached via email) their created templates to their peers or instructors for evaluation.	Not included, but could be added	No

Presentation	There are limitations for what uses can do for presentation purpose.	Users control what their targeted audiences can see, and they can also have multiple templates for multiple audiences. Users can cerate presentations of their ePortfolio either using preset (used) templates or new templates.	Not included, but could be added	No
Modify Template	Users can change the layout	Users can modify topic templates extensively. They can add subsections or boxes to existing or new templates, change the titles of templates, and add visuals appeal to each subsection or box.	Complete ability to theme your own Elgg templates using css	No
User Interface	For creating views, drag and click, check boxes, and embed URL for images and video are available.	There are two main User Interfaces. The first User interfaces is UI found within the Users' ePortfolio repository. Here, the UI consists of a series of links to templates on different topics. Users can select which to display. UI within the repository is further subdivided into 3 sections: my dashboard, editing working space, and publishing page. Constraint: A lot of UI icons do not provide a key caption when a cursor point on it. In the absence of a key caption on icon, the experiences on UI friendliness among Users may be mixed. The second UI is external links from Users' repository space to KEEP homepage, which Users find good references from community resources, select, and use to their own advantage to enhance their templates' contents.	There is a header toolbar with links too all the places needed to create your page. It includes: Your Pages, Your Files, Your Resources, Your Blog, Your Network, Your Messages, Your Profile, and Forums. It seems you also would have the ability to manage/change what is shown on the users header toolbar. Also has a right navigation bar that allows you to go to your created pages.	Yes, easy to use ui
Goal Setting	Users can have different "view" for each goal	Users can set, review, and revise goals in selected boxes within a template. Users can choose who can review and critique their goals setting. Constraint: Emailing is the only communicating option found in KEEP 'Send To" if Users wish to have their peers or advisors to review and response their goals setting.	Not included, but could be added	No
Assessment		Users can only use E-mail address (send via "Send To" feature found in KEEP) for obtaining portfolio feedback. Instructors, or others cannot directly access to Users' ePortfolio and perform internal assessment. The only way for instructors and others to assess Users' work is when Users published their ePortfolio (http) or email a snapshot, gallery snapshot, or stitched snapshots to them.	Not included, but could be added	No
Standards		Plenty of predesignated templates for Users to choose from.	There is a standard template already included within the package. There are also official and user contributed template you can download and implement.	No
Total		Users have options to select what type of licensing they wish to use to publish their ePortfolio.	Using css there is plenty of options to implement/create other templates to be used by students.	Doesn't seem to offer template support at this time
PUBLISH/SHARE				
Access Controls	Uses can add each persons or groups for each view	Access control only privilege to the ePortfolio owner. No access control for guests.	Can set specific pages and blogs to be public, private or viewable to logged in users only.	Various options, sharing with groups, private, public
View		No support for custom solutions for accessibility needs for Users with special accommodation needs.	Unknown accessibility ability	Users can view files shared
Types (Permissions)	Users can add caption, and description (a short note) the uploaded files	Users can make their work go public (either based on a snapshot, gallery, or stitched snapshots). At the Dashboard operations page, Users select "Yes" under the topic "Public?", follow by publishing the work by creating a URL address. However, by opting "No", the URL address created for the earlier published work will be disabled. This features offers Users to have a better control what artifacts to and not to go public.	Public, Private, Logged in users	Various options, sharing with groups, private, public
Archive/Download/Pack-Up Portfolio		Users can only download individual snapshots as HTML file. Users cannot download a consolidated group of work such as a Stitched Snapshots and Gallery Snapshot, which makes the downloading process time-consuming. Also, there is no advanced download tool that would allow the entire repository to be packed up, and no option to burn ep files into DVD format.	No way to pack-up or archive your pages.	Option to select all files and download them
Publish to Course	Mahara is working on integrating with Moodle. It might be possible in near future.	No	N/A	Yes, can publish to course/groups of your choice
Publish to Web	Admin can give a permission for users to publish.	Users can publish their selected ePortfolio, or portions thereof, to the Web.	Yes	Yes
Commenting	There is a "Feedback" button at the bottom of the each view where users can give a feed back to the person.Also, the committing could be private or public.	Professor can send the comments	Users can allow their blogs to be commented by the public or by logged in users	Yes, user can leave comments on files
Share Templates (Ease, administration)	N/A	Users can share templates or in KEEP, this would refer as " Galleries of Users' collection to share", to either one person or group via email share. Before Users can share, Users require to build "Gallery of Snapshots" based on pieces of individual snapshots created earlier. Once Gallery to share has been created, Users will be prompted receiver(s)' email account. Email is the only communicating tool so far.	Because we did not have admin ability it is unknown how difficult it would be for users to switch to a theme of their choice other than the default one.	No
Group work	There are no embedded options for the group work.		Users can create access groups to share content with certain groups only.	
Multiple Portfolios	Users can add as many "view" as they want. However, they are shown in same site.	Each User can create multiple ePortfolio (ex: each ep targets to specific type of audience) within the same ep user account. The number of ePortfolio is shown at the 'My Dashboard' page.	Would have to create separate user accounts	Able to make multiple courses so possibility is there
Syndicate (RSS/External Content)	There is an option for RSS. Users have to type URL for this.	No	RSS feeds of user's blog and forums	Yes, RSS support
External Notification	Users can show their e-mail address	N/A - Users do not have an option to set external notification rules about alerting (either right away or opt for a daily digest of changes made on Users' ep) others people when changes/update have been made to the Users' ep.	N/A	No

Internal Notification (Private msg)	Users can send messages to each other. When they log-in to the Mahara site, it says "You have 1 unread message". Users can also chose how they want to receive the messages (options are email, activity log, or email digest).		Internal messaging system	No
Searching and browsing	There is searching box for own files and folders. Also, users can search friends and groups.	Users can browse all of the items within their ePortfolio. Users can also create their own keyword tagging at "My dashboard". Tag is an advance search option that Users can enter tag name in the search option within the ePortfolio system. In addition, Users can also enter URL (such as http://www.cfkeep.youraliashere/tags) to view, search, share tagged published work.	N/A	Yes
Total				Great digital file storage solution.

ORGANIZE

Collection space	Administrator can assign the storage space	No limitation.(KEEP advises Users to compress image/video file into a small and manageable size, 20MB, to prevent servers' balance load.)	Storage space where you can organize data into separate folders as well as define with keywords.	Yes, there is a manage my files section.
Categorization (taxonomy/tagging)	Tag is available to put on individual files and folders.	Users can organize snapshots, stitched groups, galleries in "My Dashboard" by applying tags to them. Users can create keywords tagging to any items within their ePortfolio.	Yes can organize within separate folders.	Able to tag
Sequencing	N/A	Yes - Users can re-arrange the sequence of each snapshot at "My Dashboard" page.	N/A	Yes, can arrange files in different ways.
Mapping	No	No	N/A	No
Bookmarking	Users can add "Add view to watch list"	KEEP "Idea Bank" allows Users to collect & save useful and/or inspiring representations, innovations, and practices. Once created, IdeaLists should be published so others who enter "Teaching and Learning Commons" can find, learn from, and expand upon it.	Some support for this within blogging system.	No
Selecting		Yes - Users can select which snapshots to choose, which one to publish or keep private, which to delete, download, tag, send to, and so on.	N/A	Yes, there is a rating system in place.
Aggregate	N/A	No	Can aggregate blogs using RSS Feeds.	No
Reuse/Remix	Users can upload files without using for view	Yes - "My Dashboard" page allows Users to glance through what they have created, and decide which one to reuse and compile into a stitched snapshots, and send it off to a specific audience.	You can use content in multiple places.	Yes
Total			Has a large social networking component. You can	

ANALYSIS TOOLS

Tracking	Not sure	Yes, basic	Unknown at this time because do not have admin access but there is a mention of statistics for admin.	No
Reporting	Not sure	Yes, basic	Unknown at this time because do not have admin access.	No
Summarizing	Not sure	Constraint. Only "My Dashboard" provides an overview look at what Users have created so far. It is automatically generated.	Unknown at this time because do not have admin access.	No
Comparing	Not sure	N/A - the only alternate way to compare is between the 'published page' and 'working/edit mode'.	Unknown at this time because do not have admin access.	No
IMS Schema	N/A	Unknown	Unknown at this time because do not have admin access.	No
Accessibility	Not sure	According to one posting posted by KEEP admin (Aug 2007 forum + recent email April), they have been working on to make their systems compliance with Section 508. However, it is NOT READY in the distributable KEEP toolkit or cfkeep.org. Currently, KML (Knowledge Media Lab) has a multi-phase plan for making KEEP more 508 compliant.	Multilingual, Podcasting.	Podcasting available.
Digital Rights Management	There is a checkbox saying that "Yes: The file I am attempting to upload is my own or I have express permission to reproduce and/or distribute this item. My use of this file does not breach any of my local Copyright legislation. This file also adheres to the Terms and Conditions outlined on this site" in order to upload the file.	There are several Creative Commons or traditional copyright/licensing type to choose from.	Able to change Rights and Privacy rights and include your own policies.	Yes, follows SFSU Information Technology Resources Acceptable Use Policy.
Privacy/Security	Unless users put files or folders on the view, no one has access to the repository.	Users have choices among Traditional copyright or creative commons.	Can set pages/files as private, meaning only the user can access it. Also able to set it to only be viewable for logged in users.	Able to set as public or private. Allowing you to decide who is allowed to see it.
Total				

SUSTAINABILITY

Product Software	Established in 2006, Currently version 1.0.1	Institutions can use KEEP locally. Institutions can run their own instance of KEEP toolkit on their own servers.		
Documentation	Numbers of documentation in available on their website. Very well done.	It does not seem like cfkeep website provide a full, current, and comprehensive documentation references (i.e. lack of a web-based a well-documented and organized documentation manuals, Developers' Documentation, User's Guide Documentation, and KEEP toolkit administration.) BUT, they have fairly reasonable documentation under the link: KEEP support resources such as: developers forum driven by community-based, basic quick start guide from KEEP, a set of FAQs, and finally secondary form of documentation (more like a mix contribution from cfkeep team and KEEP community).	Some documentation provided by Elgg, but most can be found through their wiki or the forum community.	FAQ, Terms of Use, Privacy Policy. Additional information was provided by Andrew Roderick.
System Integration	Mahara is currently working on integrating with Moodle.	No advanced download tool yet. Only capture static HTML versions of KEEP pages including content such as uploaded files. No support for zipping the entire ep, and burn into DVD as well.	N/A	No

Migration/Export	Not sure	No. KEEP only works on an integration module for Sakai. KEEP has not done any integration work with Moodle at this time.	Moodle, Drupal MediaWiki, WebCT, PHPLIST, vBulletin	Integration with Moodle (iLearn) is being planned and has been prototyped using version 1.8. We are currently scoping integration with Institutional Repositories focusing on dSpace. Are examining how DIVA can integrate with the Libraries electronic databases to allow for relationships between DIVA file objects and items in the Library catalogs (relating DIVA subject terms to Library MARC terms). DIVA is built with open API's.
Staffing Requirements		Unknown (if SFSU host KEEP - possibly AT + DoIT)		Unknown but would require more staff
Orientation/Training/Help	Currently, Mahara's partners, Catalyst IT limited and Flexible learning network, are available for support and training. Also, Mahara's community/forums are available.	No. Community forum is inactive. Responsiveness via email is poor.	N/A	Built on campus so large flexibility.
Technical Support	Currently, Mahara's partners, Catalyst IT limited and Flexible learning network, are available for support and training. Also, Mahara's community/forums are available.	No online technical support at the moment. Users requires to do most of the work to look for technical solution by browsing "Support Resources" and "Forum".	N/A	FAQ, E-mail, phone
Professional Services	Currently, Mahara's partners, Catalyst IT limited and Flexible learning network, are available for support and training. Also, Mahara's community/forums are available.	No	N/A	
OTHER				
TECHNICAL REQUIREMENTS				
Authentication (Log-in/password)	Easy to change the password and use name	Yes	Log-in and password are needed to log in and make changes.	Yes
Authorization (Permissions)	Admin can suspend and delete student's account and change their password	No institutional base	Unsure but estimate that there is the ability to set users as a regular user or as an administrator.	Yes
Web Language Compatibility	PHP, JavaScript	HTML	May integrate with other languages, but only allows the use of HTML for regular users.	Written in php, also uses some python and c
SSL Support		No	I do not think it uses SSL by default but could probably be changed to allow it	No
RSS Feed Support	Uses can embed RSS on their portfolio.)No RSS for own blog).	No	Full RSS support. Ability to use RSS to post your other favorite blogs in your blog section.	Yes, supports RSS
User SFTP Support		Unknown	N/A	No
Storage	Admin can assign individual storage space for each account	Unlimited. KEEP do not have a quota system enforcing storage limit on the number of ep a User can store.	Set by us	4gb/user
Server and OS Requirements	BSD, Linux, SunOS/Solaris	Fully web-based	LAMP stack	Linux, Apache, PHP5
Database requirements	The developers recommend PostgreSQL for maximum stability and data integrity. Properly tuned, PostgreSQL will likely outperform MySQL anyway - we are using InnoDB tables for the transaction support.	MySQL	MySQL, older versions seem to work with other database options.	Postgre SQL
Other Software Requirements		Browser compatibilities: IE, Firefox, Netscape or safari. If a user uses IE on MAC (OS9 or OS10) with Macromedia Flash Player 7.0, the Rich Text Editor does not work properly. KEEP suggests using Netscape 7.02 or OS9.	N/A	
Interoperability (w/other Univ. systems)	Mahara is built using PHP web scripting language and leverages PHP5's OO features. All plug-ins follow a consistent structure and inherit from a common base class (core functions of plug-ins are implemented once). Mahara currently supports plug-ins for Artefacts, Authentication and Search. Therefore interoperating with an existing product simply requires the development of a plug-in.	No	Would eventually work with the Moodle system.	Soon: Moodle + Library electronic database