## Gaplatz Developers "Open Bookcase": Functional Requirements Matrix

Catagory of	Gapiatz Developers Open Bookcase : Functional Ki			
Category of	English at Description and	C9	Prio	
Function	Functional Requirement	Core?	rity	Deliverable(s)
Aesthetics /	Adjust shelf height for customized book arrangement. Additional RFID-		_	1 1 1 101 1
Storage	equipped shelves available for purchase.	core		bookshelf hardware
Connectivity	Exchange and sync data between shelves and system.	core		USB ports; wifi; system software
Holdings	Identify which books are on the shelves.	core		RFID Reader; system software
Holdings	Access and import free cataloging data via Linked Open Data.	core		system software
Holdings	Access user book data remotely, e.g. to see if user already owns item.	core	5	system software; mobile device
	Search user book holdings, local libraries and bookstores to locate books		_	
Locate	listed in bibliographies and footnotes.	core		system software
	Receive reading recommendations from other users and other websites.	core		RSS feed
Rec'mendations	Receive notifications of new releases, e.g. series or specific authors.	core	5	RSS feed
	Algorithmically-generate reading recommendations from system software			
	based on user-specific reading patterns and book collection.	core		system software
Recordkeeping	Track books user has read. Track and prioritize user wishlist.	core		system software
Recordkeeping	Track how often each book is removed from shelf, and duration of	core		system software
Safety	Provide simple-to-install bookcase-to-stud bolting for earthquake safety.	core		bookshelf hardware
Social	Record user-generated book reviews. Post to selected social media.	core	5	system software
	Share user book data on selected social media: lists, customized		l	
Social	categorizations, tags.	core		system software
Sorting	Optimize for multifaceted searches within user database.	core	5	system software
	Optimize for folksonomic tagging to permit multiple ways to virtually			
Sorting	sort and catagorize user collections, similarly to music playlists.	core	5	system software
Storage	Accommodate collection expansion with integration of additional	core	5	bookshelf hardware
Ubiquity	Create & update reading lists and wishlists remotely on mobile devices.	core	5	system software; mobile device
Active reading	Capture reading annotations digitally.		5	system software
Active reading	Search within text.		5	system software
Active reading	Highlight section of text to copy-paste elsewhere (blog, Word doc,		5	system software; plugin
Active reading	Highlight selections from text to create collections of quotes.		5	system software; plugin
Active reading	Generate citations without data entry. Compatible with Zotero, Endnote.		5	system software; plugin
Active reading	Follow links directly to URLs in user's book: text, footnotes,			system software
Circulation	Share books and track loaned books.			system software
Multimedia	Access user-owned books in multiple formats and on multiple devices.			system software; plugins
	Track and sync last page accessed within text to provide continuity of			system software; plugin; mobile
Ubiquity	reading experience across multiple formats and devices.		5	device apps
Literacy	Track child's reading time.			system software
Ziveruey	Track child's reading selections. Generate reading recommendations.			by stem seren are
	Incentivize or provide encouragement to diversify reading materials or to			
Literacy	increase reading level.		3	system software
Active reading	Send feedback to publisher / author seamlessly.			system software
Aesthetics	Function as a room divider. Option of fine-finish backing or no backing.			bookshelf hardware
Aesthetics /	Optional glass-front doors (clear or tinted) protect contents from dust,			glass doors and mounting
Preservation	and from sunlight with UV-coating.		3	hardware; UV coating
Aesthetics /	Optional under-shelf lighting with dimmer switch increases visibility of			systsem software; under-shelf
Security	books and provides mood lighting. Programmable vacation settings.		3	lighting
Income	List and sell user's books online, e.g. via Amazon.			system software
Income	Sell user tracking data to data analytics companies, e.g. Google, Amazon,		,	system software
	booksellers, etc.		3	system software: plugins
opportunity Multipurpose	Optional small built-in hidden safe for jewelry, important docs, etc.			system software; plugins bookshelf hardware
iviumpurpose	Optional climate control within bookcase to protect and preserve books.		3	system software; humidity and
Procomication	<u> </u>		3	-
Preservation	(Glass door option required.)		3	temperature sensors; temperature
Co comit	Ontional sensets controlled to salest (Oleve 1		2	system software; door lock;
Security	Optional remote-controlled door lock. (Glass door option required.)			mobile device app
Storage	Optional modular drawers for CD/DVD storage, magazine dividers			drawers & slider rails; dividers
Multimedia	Optional mount for large-screen TV on the back of the bookshelf.		1	large-screen TV mount
Multipurpose	Optional pull-down projector screen. Front- or rear-mount.			projector screen and mount
Multipurpose	Optional white board on back of the bookshelf.		1	white board and mount
Storage	Optional under-shelf wine glass rack.		1	under-shelf wineglass rack