APPENDIX B – Technical Specifications

To the "Agreement for Archive Management System"

1 Requirements

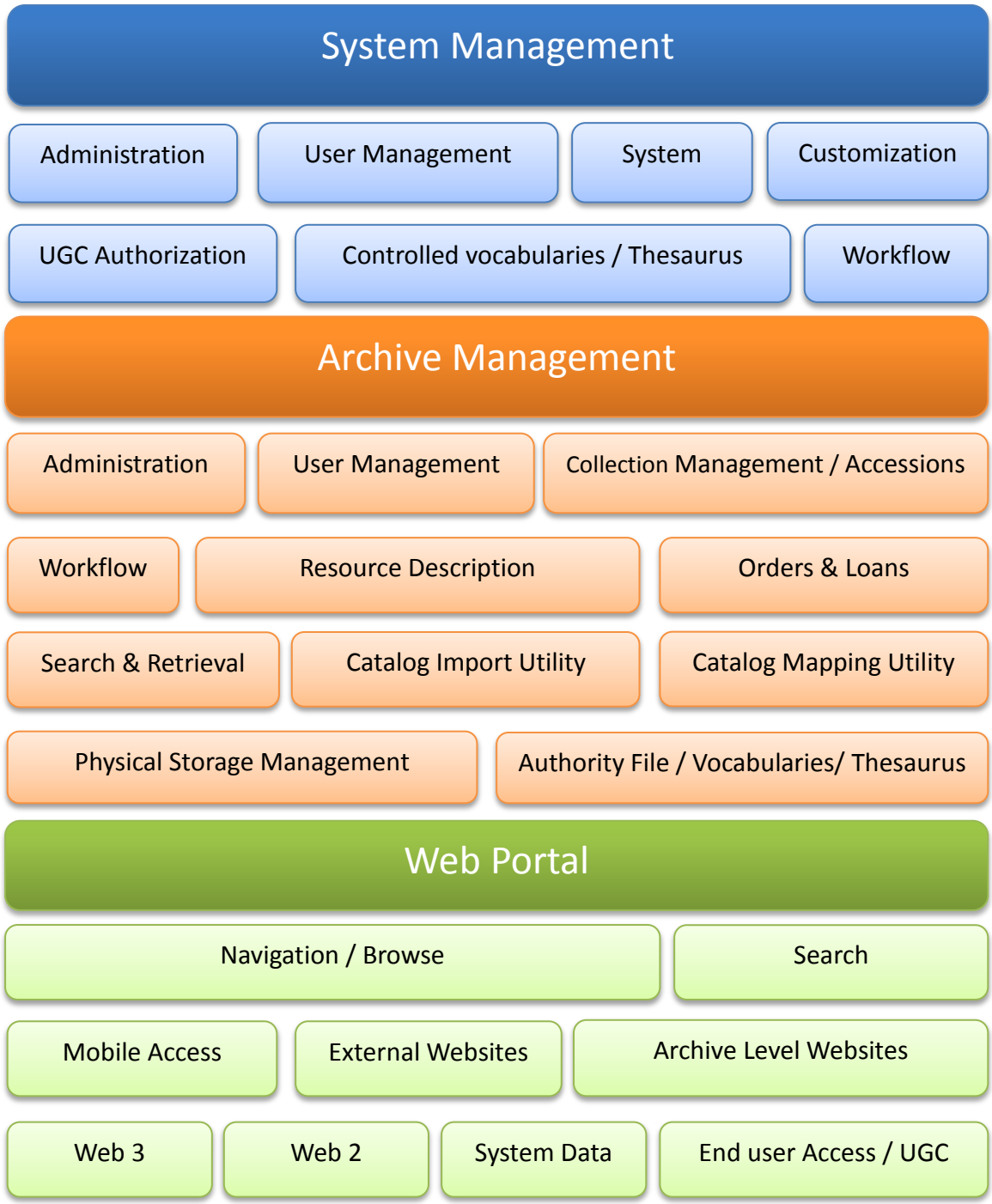
1.1 Solution Scope

The provided AMS will:

1. Act as data preservation repository for the records and data of heritage archives throughout Israel.
2. Provide each archive participating in the project with an AMS to individually describe and otherwise manage their individual collections and archival activity in accordance with the principles of archive management as suggested by the International Council on Archives (ICA).
3. Support the import of records and links to digital copies into the AMS of archival institutions that already have an AMS or have otherwise cataloged their holdings.
4. Provide the ability for a project management body to manage the overall solution, adding new archives and managing existing ones, perform customizations where necessary and maintain the system.
5. Provide a customizable website portal for access and discovery to all of the data held in the AMS for the general public.
6. Integrate seamlessly with the ExLibris *Rosetta* and *Primo* systems.
7. Provide a customizable, brandable website for each individual archive in the Project Web Portal.
8. Be fully scalable, allowing for the addition of archives and hundreds of millions of records without compromising performance and cost.
9. Provide crowdsourcing capability, allowing registered end-users to add or edit records, tags, and meta-data based on pre-defined user permissions. These user permissions will be set for all participating archives on the project level.

1.1.1 Modules Schematic

The following schematic shows the three main modules and their sub-modules that are to be included in the AMS by the Contractor.



1.2 Technical Requirements

1.2.1 General Requirements

The requirements listed in this section outline the basic requirements that the solution is expected to meet.

#	Requirement	Description
1.	Support a Cloud/Hosted based solution	The AMS will be cloud based, supporting central management and remote access. Access to the backend will be via browser based thin-client interfaces.
2.	Highly scalable solution	Support the easy addition of new individual archives to the project without compromising performance and cost.
3.	Support a large amount of data	Potentially hundreds of millions of records. The AMS will be scalable to allow the addition of many records via traditional system scaling methods.
4.	Include a front-end website for search and navigation	The solution includes a front-end website for use by the public as well as registered users for search and browsing of all data held in the AMS. The interface will also be used by authorized archive staff to search and navigate their archival holdings. Access to staff will be via a log-in.
5.	Customization	The AMS will allow the complete customizations as stated below of fields, screens, and workflows by the System administration or Archive level administration independently without the need for the Contractor to provide the customization work.
6.	Unlimited fields	The AMS will support the ability to add unlimited fields on all screens in the System. The fields must be able to be defined as any field type (textual, numeric, drop-down, date, etc…) and must be able to be cross-referenced, searched, exported, and available for population with imported data. The fields may be named in the UI according to the preference of the adding archive.

		The fields will be added to the database with a standard name and will be available to all users and other archives using the AMS once added to the system.
7.	Templating / Default Fields	The AMS will have the ability to define and add default fields and values ***based on the user privilege*** on any screen in the system
8.	Determine Required/Optional Fields	The AMS will support the ability to define fields as required or optional. The AMS will allow the user to populate other fields on the screen but will mark required fields with a symbol. The record will not be saved until the required fields are populated. A clear indicator or error message will be displayed pointing to the missing or incomplete information.
9.	All fields are searchable	All fields are FULLY searchable Including all custom added fields Including vocabulary lists and thesaurus The AMS will support the ability to set fields as searchable or not searchable
10.	Search in all Languages	All fields must be searchable in ALL languages that are included in the system Enhanced search engine features (logical, Boolean, linguistic) must be applicable to all languages.
11.	Import Legacy Data Import Utility	The AMS includes an import utility that allows importing legacy data from external, often older, sources in a variety of formats including XML, CSV, Excel, EAD into the system catalog in accordance with the ISAD(G) standard. The Utility will include a human-readable error log or indication mechanism for errors that occur during the import process.
12.	Mapping Tool Utility	The AMS includes a mapping tool that allows external descriptions and legacy data to be imported in a variety of formats including XML, CSV, Excel, EAD, and manually mapped to the parallel fields in the AMS. The Utility will output an XML file containing all of the source data

		according to the fields (ISAD(G)) in the system. The system will then import the records (e.g. Fonds, files or items) via the import utility tool. The Utility will include a human-readable error log or indication mechanism for errors that occur during the import process.
13.	Integration with *ExLibris Rosetta* Digital Management system.	The AMS must support integration with *ExLibris Rosetta*, a 3rd party digital management and preservation system that will contain all of the digital images, media files, and metadata of the associated records in the AMS. Each record will link to all of its related content. The AMS system will export the records in METS format to *Rosetta*.
14.	Web-Publishing of Finding Aids	The AMS will support publishing to the Web (the Solution Web Portal) the finding aids (EAD) of each individual archive. Will be done on the individual archive level by each archive or on the system level for all archives at once.
15.	Support User Generated Content (UGC)	Support user generated content via crowdsourcing to add and enrich the data in the database. All UGC will be permissions based. Users will use single-sign-on credentials to access any archive they have been granted permissions to contribute to. See 116 and 117. The AMS will support UGC management including user management and access rights (including existing LDAP), approval and rejection and publishing of their content, and updating the AMS database.

16.	Support Web 2.0 Tools Integration	Support integration of social media platforms, collaboration tools and workspaces.
17.	Support Web 3.0 Tools Integration	Support integration of semantic web tools, linguistic tools
18.	Disaster Recovery	The AMS will support disaster recovery mechanisms including backup and restore functionality of the system and its data via a built-in or third party application.

1.2.2 Standards Requirements

#	Requirement	Description
19.	Compliance with International Archival Management Standards	The AMS must conform to internationally accepted standards of archival management and description, including, but not limited to the following: 1. ICA-ISAAR(CPF) 2. ICA-ISDIAH 3. ICA-ISAD(G) 4. ICA-ISDF 5. EAD 6. EAG 7. EAC 8. OAI-PMH

20.	Other Standards	The AMS must be able to work with data in the following additional formats: 1. METS –Export of metadata of related digital images in METS format for *ExLibris Rosetta* 2. Dublin Core 3. ALTO – Ability to access ALTO files that hold OCR text.

1.2.3 Module 1 - Archive Management – Collections / User Administration / Operations

1.2.3.1 Archive Administration

#	Requirement	Description
21.	Individual Archive Management	An individual participating archive can manage its own environment independently of other participating archives. 1. Customized field names, types, quantity and placement. 2. Personalized vocabulary and thesaurus, as well as being able to use public thesauri and vocabularies. 3. Individual user management and permissions.
22.	Data Entry Approval Process	proofing /approval /publish/reject of new/edited records User permissions based. For those users who require approval, their activity must be approved by the administrator user before committed to the system (For use with User generated content)
23.	Record usage statistics	1. Record and log usage data of archive material access history. Link to users.

		2. Track how many times the item was accessed, by whom, date 3. Track most commonly requested or accessed collections
24.	Track Collection Processing	Track unprocessed collections and progression of collections being processed
25.	Archive Hierarchy / List	1. Support the creation of a list of collections in an archive. **Based on ISDIAH Standard.** 2. Link the list to the hierarchy in the Archive 3. Support additional fields that can be added by the archive. 4. Sort alphabetically 5. Sort chronologically 6. The list and archival descriptions will be in the selected language of the archive institution. 7. Support language translations of the list as a mirror to the list. Example: English/Hebrew variant of the same list 8. Show the number of records in each level of the list
26.	Log Visitors	1. Log visitor information 2. Keep a separate table of users that can be cross referenced with material that they access. This data will be kept on the user level and is not stored in the item record. **Fields:** Name ID Institution Contact details (tel, email, social media) Log of history – record and item level Courtesy Copy follow up (yes/no) Blacklisted Prior copyright use permissions

27.	Audit trail/Log of data changes	Track and log changes to records. **Fields:** 1. Date/time of data change/addition 2. User who made change
28.	Reports	No limitations on number of fields allowed in reports, or number of records produced by a report. Support numerous report types: 1. Usage reports of material 2. Visitor reports – access to material based on user. 3. Archive user reports of activity / changes 4. List of archive holdings based on selected criteria such as date/ time range of acquisition, contributor, subject, source archive (for copies) or any combination of fields, including custom fields. 5. Administrative Reports Such as: Report of internal information such as who donated, when, why, cost of purchase. Show correspondence relating to archive. Evaluations of an archive 6. Print report 7. Export reports to Excel, PDF, Word
29.	Customized reports	1. Support the ability to define and run custom reports based on all fields, including custom fields, in the System.

		2. The reports must be creatable by archive or system staff without requiring the assistance, other than initial training by the Supplier to create and execute them. 3. No limitations on number of fields allowed in reports, or number of records produced by a report. 4. Print reports 5. Export reports to Excel, PDF,Word

1.2.3.1.1 Physical Storage Management

#	Requirement	Description
30.	Physical Storage Management	Storage consists of: archive storage location, cabinet, shelves, drawers, material contained in folders or envelopes in different sizes Ability to choose physical location of object based on storage structure **Fields:** 1. Storage facility ID/Name 2. Capacity 3. Capacity Utilized 4. Available space **Field Types:** 1. Text/numeric/dropdown 2. (numeric) Shelf meterage 3. (numeric) Shelf meterage Calculated field
31.	Location Management	Exact location of where each container is. Room/cabinet/row/ and shelf 1. Each record contains physical location information 2. Each level in the hierarchy contains physical storage information.

		3. Need to know where there is open physical location - storage management. - report Ability to move , edit locations
32.	Barcode Support	1. Support barcoding records 2. Support records with prior barcode information
33.	Inventory	1. Every item gets an automatic running ID number. 2. Inventory must be registered by date so that it may be possible to know what came in on any given date range. (day/month/year) 3. Include ability to sort inventory by different parameters
34.	Reports	1. Support reports of storage management. 2. Determine what is stored in a particular location (location, cabinet, box, folder) 3. Support reports based on content that return the various locations of all material within the query. 4. Support the ability to run reports: a. On a specific location b. Type of material c. Date or date range d. contributor 5. Track size of a storage location 6. Track how many meters of shelf space have been utilized (per month/year or any given period) 7. No limitations on report length, number of fields

1.2.3.1.2 Orders and Loans

<table>
<tr><th>#</th><th>Requirement</th><th>Description</th></tr>
<tr><td>35.</td><td>Order item/s</td><td>Support the ability to order one or more items from the catalog. Via a system interface.
"Shopping Cart" style capability.
The user will log-in to the system in order to perform an order.
New users can register on-line and create a "User Card/Profile".
The order/loan will occur on any level of the hierarchy.

<table>
<tr><th>Fields:</th><th>Field Types:</th></tr>
<tr><td>1. Order ID
2. UserID (end-user)
3. Order Purpose
4. Order Date/Time
5. Return date/Time
6. Returned by (user)
7. Archival Record Number
8. Loan Type
9. Status</td><td>1. ID
2. ID
3. Dropdown
4. Date
5. Date
6. User-ID
7. ID
8. Dropdown / Checkbox – (Internal/ External)
9. Dropdown (reserved, on loan, overdue, on exhibit, On-Shelf, Lost, not for loan, restricted access)</td></tr>
</table>
</td></tr>
<tr><td>36.</td><td>Reproduction Orders</td><td>Support ordering of scans and reproductions of a specific page, document, folder, etc….

Fields will include scan requirements, including the fields: scan resolution, size, number of copies, purpose, comment field.</td></tr>
<tr><td>37.</td><td>History</td><td>View history of loans of a collection/item (on any level of the hierarchy), including usage permissions that were given to publish or cite.</td></tr>
</table>

		Based on collection or Item System Name or ID
38.	Alerts for upcoming events	The AMS will give alerts such as an item due for return
39.	Prevent multiple orders	1. Prevent an order for an item that is presently on loan or unavailable 2. Alert staff that the item has been ordered more than once

1.2.3.1.3 User Management

#	Requirement	Description
40.	Administration Interface	Interface for managing users and their privileges Support multiple types of users within each archive, including staff and visitors. The administrator user may use pre-defined users, or customize a specific user type.
41.	User Groups	1. The AMS will support pre-defined user groups 2. Support the ability for each Archive to create additional user groups, define permissions. Archive administrator can add/edit/promote/demote/delete a user
42.	User Tracking	For all of Module 1 (3.2.2) all user activity is logged. 1. Record user name 2. Record date and time of creation/modification 3. Record modification

43.	Log Management	User logs can be accessed, deleted and managed by the administrative user

1.2.3.2 Archive Management Tool / Interface

#	Requirement	Description
44.	Web Client	The Archive Management Interface is a soft client (web based interface) that provides access to the centralized, hosted System.
45.	Text Fields of unlimited length	All text fields will support 64,000 characters in length minimum.
46.	Multilingual Data Input	1. The AMS will support right-to-left (RTL) and left-to-right (LTR) languages. 2. The AMS will support multi-lingual user interfaces, displaying the appropriate text direction and alignment. 3. Users will be able to easily switch the user interface language. **Required interface languages:** English Hebrew **Required data input languages:** All languages (excluding Asian languages)
47.	Support input of multiple languages in a single field	Add data in more than one language in the same field. Including RTL and LTR. The relative direction and order of each language MUST be maintained.

48.	Interface Language	The interface language will be available in English and Hebrew, with full RTL and LTR support. The user will be able to select the desired interface language without the need for special configuration.
49.	User Profiles	Each archive staff user can define his/her own preferences, select tabs and toolbars to display. Each user can change his/her preference profile as desired.
50.	Hierarchy View	A full hierarchy view of all levels down to the item level is available to the user.
51.	Hierarchy navigation	The user can navigate the archive via the hierarchy tree, performing changes and additions as necessary on any level. The navigation tree is updated automatically.
52.	Batch modify / update records	Modify or update multiple records by a single batch execution process. The process must be unlimited in terms of quantity of records. The process must be able to update all fields including custom defined fields AND calculated fields A readable error log will be produced when the batch process is complete.
53.	Batch delete records	Delete multiple records in a single batch process. The process must be unlimited in terms of quantity of records. Deletion of records must be a function that is based on a user profile with appropriate permissions. When deleting any item, a warning confirmation will be displayed. When deleting a parent, the AMS will confirm whether or not to delete the children as well. There must be an option to NOT delete the children. The children may be re-assigned or now take the place of the deleted parent.
54.	Restricted Records Access	The AMS will support mechanisms for restricting selected records and digital images from public access

		according to accepted standards. This will be possible on the archive, collection, or any level within the hierarchy including an individual record.
55.	Spell check	Include spell check in all included languages
56.	Support multiple date formats	Support multiple date formats including Gregorian, Hebrew, Muslim, open formatted dates such as: BEF, AFT, ABT, CIRC, BET.
57.	Support date ranges	Define time period (date to date, such as period of WW2) Search on a date range returns any item that has a relevant date within the period searched.
58.	Data Validation	Validate date entries on date fields
59.	Import records	The import records capability must support for both single and multiple records: 1. importing new data 2. updating existing data 3. overwriting existing data
60.	Import record file formats	The import record/s functionality supports the following file formats: 1. XML 2. Excel/ CSV 3. EAD
61.	Basic Search	Keyword, Boolean, phrase, search on all included languages. English and Hebrew search capability
62.	Advanced Search	**Please state the search engine incorporated in the solution and list all search functionality**

		Ability to perform searches on custom parameters Search capabilities: - Keyword search - On any field or combination of fields - Wildcards - Date ranges - Boolean operators - Fuzzy search - Search within results - Morphology

1.2.3.3 Collection Management - Accessions

#	Requirement	Description	Fields	Field Format
63.	Accessions	Acquiring collections or parts of collections and documenting the transfer of material. Basic information about the collection,	1. date of acquisition 2. accession number 3. accession method 4. Extent (quantity) of accession (estimate) 5. Scope and content (main subjects, diplomatic form) 6. Name of collection or record group 7. Restrictions and terms of use 8. Ownership 9. Monetary value 10. Dates covered in the accession	1. Date 2. Auto 3. Text 4. text 5. Text 6. Text 7. Dropdown + text 8. text 9. text

			11. Details of de-accession 12. Type of acquisition (transfer, purchase, gift) 13. Type of media (prints, negatives, slides, documents) 14. Creator or originator of collection 15. Appraisal information 16. Notes 17. Source of Acquisition 18. Courtesy Copy	10. date range 11. text 12. dropdown 13. dropdown – multiple select 14. text 15. text 16. Text 17. link to record 18. yes/no
64.	Source of Acquisition	Record the source of the acquisition	1. Name (body) 2. Contact Name (person) 3. Contact Details 4. Type (donor, depositor) 5. Link to website of source 6. Link to catalog of source	1. text 2. text 3. phone, address, email, fax, social media 4. drop down
65.	Record or generate deed of: gift / donation / deposit	Documents the legal transfer of title of the collection to the recipient. Usually a letter or document.	1. Type 2. Terms 3. Owner 4. Copyright 5. Document attachments	1. Drop-down 2. Text 3. Text 4. Text
66.	Link accession and	1. Link accession record to multiple description records.		

	description records. <u>On any level of description</u>	2. Link description record to multiple accession records Bi-directional, multiple to multiple relationship. Allow cross-reference lookups of the target record

1.2.3.4 Resource Description

#	Requirement	Description
67.	ISAD(G) Standard Compliance	Archival Description is in accordance with the ISAD(G) archival standard. See appendix 2 "ISAD(G)" for the list of fields and specification. The standard includes 26 fields. The AMS will support the ability to add additional, unlimited fields as required, on the System, and archive levels.
68.	Conservation/Restoration Treatment	Record the information on any level of archival hierarchy
69.	Physical Location	As in ISAD(G) standard, but with additional ability for cross reference with the active "Physical Storage Management" module (Section 3.2.2.7.1). Cross reference the record to the physical storage location including folder, container, shelf, cabinet

		location, etc…	
70.	De-accessioning	(Manage removing, or trading of collections or parts of collections from the archive) Fields: 1. Date of de-accession 2. De-accession details (text)	
71.	Unlimited Hierarchical Cataloging	Supports ability to add unique description data on each level. The AMS will support unlimited depth	(example hierarchy) Institution Archive Fonds/Collection/Record Group Sub-Fonds Series Sub-Series Folder Document/item
72.	Customize / Reorganize hierarchies on the fly	1. Support changing a hierarchy level. Any children can be <u>optionally</u> automatically changed along with the parent, and the hierarchy is automatically reorganized. This item is Permissions based 2. Add/delete and edit nodes on any hierarchy level <u>on the fly</u> – while performing cataloging from within the description screen, and name them as desired, <u>without</u> having to exit the record screen or make the changes from an administrative interface.	

		This can be done by an individual archive and the changes are relevant to that specific archive
73.	Individual Hierarchies	Support different hierarchy depths across different archives and different fonds within the archive
74.	Automatic inheritance of data from parent level on record creation	Inherits the hierarchy, keywords, accession data. Does not inherit creation data or data specific to the creation of the parent The values themselves do not need to be actually inherited, however a search on the parent level must be able to return child values as having those values or attributes. The reference code at each level will include all upper levels reference codes concatenated in the format predefined by each archives
75.	Link digital images to record	1. Link to digital media files stored in *ExLibris Rosetta* 2. link multiple media files for each record 3. Link multiple files to multiple records as batch process
76.	Digital Media Players/ Viewers	Support standard client media player and viewers to view the digital content.
77.	Print	1. Print full record 2. Print digital image/s with or without archival data 3. Print only selected fields/ Data 4. Based on user permissions 5. Must be possible on all fields, including custom added fields

1.2.3.5 Workflow

#	Requirement	Description
78.	Archiving Workflow	The AMS will support the creation of workflows in appraising, acquiring, processing, managing, and preserving archival collections. Allow use of checklists and other workflow tools to guide the process. Each archive may choose to work with pre-defined workflows, or may choose to customize a workflow, or even develop a custom workflow to meet the needs of the archive. Customized workflows will remain on the individual archive level 1. Workflow stages 2. Customized fields 3. Task assignment to system users (system users or Active Directory users) 4. Show status and assignment on record level 5. Set parameters that determine when/how the item goes to the next stage. 6. Automatic stage advancement when stage criteria are met 7. Support deadlines Support required criteria for each stage and task
79.	Support Multiple workflows	The AMS will support multiple workflows, allowing an archive to define and use different workflows for different tasks.
80.	Workflow History	Retain a log of the history of changes made to each item. 1. By whom (user)

		2. Timestamp 3. Change made (field, value before, value after)
81.	Prioritizing	Support setting priorities for processing order 1. On accession level 2. On task level

1.2.3.6 Controlled Vocabularies / Thesaurus

#	Requirement	Description
82.	Controlled vocabulary / Thesaurus / Authority File	1. Support predefined lists of words and phrases. 2. Display the lists in hierarchy and alphabetical order. 3. The lists may be accessed by ALL participating archives. 4. Must be able to cross-reference other entries. 5. Must be able to add synonyms 6. Inheritance to sub-levels 7. Add an entry during description entry without having to exit the description screen.
83.	Auto- Vocabulary Population	Pre-determined Keyword fields and other pre-determined fields are automatically added to the vocabulary list
84.	Authority Record	A separate record used to describe entities (corporate bodies, persons and families) associated with the

		creation and maintenance of archival materials. In accordance with ISAAR (CPF) . Appendix 1.- list of all fields. Must be able to link a resource description to one or more authority records. The Authority Record is added to a lookup table from which it can be selected and linked to a descriptive record. All fields will be included in the AMS. Additional fields may be created as necessary.
85.	Link authority and description records. On any level of description	On any level of description: 1. Link authority record to multiple description records. 2. Link authority record to multiple accession records Bi-directional, multiple to multiple relationships. Allow cross-reference lookups of the target record
86.	Searchable	The vocabularies/ Thesaurus must be searchable by the search engine, including all of its synonym entries, in all languages.
87.	Multi-lingual Support	The vocabularies/ thesauri will be multi-lingual, supporting synonyms and entries in different languages. For example: English synonyms can be added to a Hebrew entry.
88.	Integration with External lexicons, vocabularies and thesauri	Ability to import or connect via the web to external sources of information Such as: NLI Authority Tables (LCSH) מפתח חיפה / Haifa Index

		UKAT (United Kingdom Archival Thesaurus) UNESCO Thesaurus
89.	Shared Thesaurus	Thesaurus and controlled vocabularies above are shared amongst ALL archive instances All users may add entries or synonyms on-the-fly, without having to exit the description screen. (based on permissions) No user can delete or edit an item on the fly. Edit (other than synonym additions) or delete requests will be pooled and managed by the System management.

1.2.4 Module 2 – Project/Solution Level System Administration

#	Requirement	Description
90.	Archive instance Management	The AMS will include a Module for the management of multiple archives in a hosted environment by the technical management team of the project. The interface and fields for this module may be in English only. Additional languages are not required
91.	Administration Interface	The AMS will have a an interface to add, edit, or delete archives. Please note if the interface is a client or Web application
92.	User administration	Manage system Users: (add, edit, remove, disable) 1. super-administrators of the AMS, 2. archive administrators – when adding a new archive
93.	Define system-wide	The System level will be able to define workflows and apply them to any archive instance in the system at

	workflows	will.
94.	Workflow Customization Ability	The AMS will allow workflow customization and creation without requiring additional development or vendor support. This is required on a per-archive basis. However different workflows can be defined for different archives in the AMS, and a workflow can be defined and then used for a number of different archives in the AMS.
95.	Archive/ Collection List	Support a dynamic list of all archives in the AMS. The index will display the full hierarchy of all the archives in the index when expanded.
96.	Thesaurus / Authority Control	Management and maintenance of the thesauri, controlled vocabularies and authority records that are detailed in Section 3.3.3.6
97.	Log changes	The AMS maintains a log of all data changes across all of the archive instances
98.	Reports	Usage statistics, activity reports, system logs If out-of-the-box, please define
99.	Customized Reports	The AMS supports creating customized reports based on all fields in the AMS including custom added fields
100.	Print Reports	The AMS supports the ability to print reports
101.	Save Reports	The AMS supports the ability to save reports as Excel or PDF documents. If other formats are supported, please state.

1.2.5 Module 3 –Web Portal for Access/Discovery

#	Requirement	Description
102.	Web Portal	The AMS includes a public access web portal for search and navigation by archive staff and the general public for access to the content. The Portal will allow access via search and browse in a clean, intuitive, user-friendly manner to archive staff and the public. User-based access will be available to archive staff and authorized personnel to access information that is not available to the public.
103.	Multi-lingual	The interface is available in multiple languages, including Hebrew and English. Users may select the language by a simple click of a link in the browser. The site is displayed in the correct direction based on the language chosen RTL or LTR. The navigation tree will also be displayed in the direction of the Interface language chosen
104.	Navigate/ Browse Portal	Support browse of the contents of the Portal and individual archives and collections. Support browse via an active, visual hierarchical tree of all of the levels in the archive. The tree is functional, such that clicking on any node will open the contents of the node down to the lowest level.
105.	Search Engine	1. The AMS includes a high-end search engine capable of advanced search capabilities, including the ability to rapidly search across terabytes of information. 2. Basic Search (Keyword, Boolean, phrase, search on all included languages). 3. Search within results

		4. English and Hebrew search capability 5. Support search on OCR text Including but not limited to: - Full text search - Search on fields - Keyword search - Phrase search - Boolean operators - Logical operators - Lemmatization (morphology) / stemming
106.	Advanced Search Capability	The search functionality in the Web Portal will allow the end-user to: 1. Create search query from keywords and phrases from keywords table 2. Refine search based on hierarchy, type of item, collection, archive 3. Search across all of the data in the AMS, on all levels of hierarchy. 4. Perform keyword search 5. Search on any field or combination of fields 6. Use Boolean operators 7. Search on date ranges 8. Search on Gregorian and Hebrew calendars 9. Search on specific fields, archives 10. Search using keyword lists 11. Include external websites in the search

		12. Search using Federated Search (including external catalogs and websites) 13. Perform a fuzzy search 14. Perform a proximity Search 15. Use semantic analysis
107.	Search Results	1. Ability for user to sort search results based on selectable parameters (date, name, size, relevancy, collection, archive, popularity) 2. Ability to customize which fields appear in the search results (permissions based) 3. Highlight hits in search results 4. Search results show hierarchy tree of record. User may navigate in the hierarchy tree. 5. Show number of search results 6. Display search query with search result 7. Show source 8. Show date 9. Sorting 10. Rank search results according to relevancy 11. Highlight hits in search results 12. Search results clearly indicate hierarchical relationships of records 13. Search result clearly indicates location of record within hierarchy 14. Ability to move up or down in the hierarchy without having to perform new search
108.	Save Search Queries	1. Ability to create, edit, e-mail, share, print, and save a search list of items 2. Save/Print/Email search results 3. Share search results via email, social media

		User based. Each user can save search queries for future private use, or for use by all other users (public).
109.	Integrate with a 3rd Party Search Engine	The included solution supports integration with Exlibris *Primo* search engine via web services or API.
110.	Web Search engine friendly	The database or index of the data is search engine friendly, allowing for access and indexing by Internet search engines such as Google, Bing, etc…
111.	API / Web Services Availability	API collections are available to access the AMS data from other platforms and software via API's or Web Services
112.	Supported Browsers and versions	Al major browsers and browser versions must be supported including Explorer, Chrome, Safari, FireFox, Please list all browsers and versions that your web interface currently supports.
113.	Digital Content Viewers	Support 3rd party digital viewers and players without the need to install on the client side (MP3,WAV,JPEG,TIFF,JPEG2K,PDF)
114.	Social Media Integration	Support integration with social media platforms (Web 2.0)
115.	User Generated Content (UGC) – Feedback / Comments	Support and manage interaction with public users including feedback, orders, questions, requests, comments. Support these features down to the item/record level Permissions based –The user may use a single credential to log-in to any archive. Permissions granted on the system level.
116.	User Generated Content (UGC) – MetaData	Support user generated content of additional meta data, tags, OCR correction and other enrichment of the

	Enrichment (CrowdSourcing)	actual archival descriptions. Permissions based –The user may use a single credential to log-in to any archive. Permissions granted on the archive level. Each individual archive must approve the user and the level of permission.
117.	Orders	End-users can order or reserve items in an archive
118.	Display Images	Display thumbnail images and larger high-resolution images
119.	Prevent unauthorized use	The AMS contains tools or features that prevent unauthorized copying/downloading of digital material to unauthorized users.
120.	Support Mobile Access to Front-end	The AMS support access to the front-end website via mobile platforms, including Apple and Android devices.