

SFU Archives development tasks and estimates rev. 19 June 2015

Phase 1: 100 hours Development area: Archivematica-AtoM DIP upload Priority: critical
Estimated development cost: \$13,000
Proposed development tasks: <ul style="list-style-type: none">• Add filter to AtoM to strip extensions from information object titles that are derived from filenames of uploaded digital objects• Add “redact” area in information object data entry to template to edit digital object filename, information object title and permalink
Phase 2: 180 hours Development area: AtoM rights management Priority: critical
Estimated development cost: \$23,400
Proposed development tasks: <ul style="list-style-type: none">• Add a new taxonomy (PREMIS Statute) to database. Change Rights > Statute field to auto-complete and allow selecting existing statute or entering a new one. New statutes entered via auto-complete would automatically be added to taxonomy.• Add “Basis” to Admin > Rights setting page as per "SFU rules" table• Update PREMIS ACL checks to include "Basis" conditions• Show copyright pop-up on every download attempt when restriction: “conditional” and right: “allow”• Add admin setting to toggle pop-up on/off• Add admin field to define text to show in copyright pop-up
Phase 3: 210 hours Development area: Metadata-only DIP upload Priority: high
Estimated development cost: \$27,300
Proposed development tasks: <ul style="list-style-type: none">• Add AtoM REST API endpoints to GET archival hierarchy and PUT archival description• Add Archivematica REST API calls to AtoM endpoints to GET archival hierarchy and PUT archival description• Show AtoM level of description in Archivematica appraisal Tab

- Investigate uploading small amount of digital object technical metadata from Archivemata to AtoM.
- Upload a stored DIP to AtoM from the Archivemata access tab

Phase 4: 100 hours

Development area: **Ingest email accounts into Archivemata**

Priority: high

Estimated development cost: \$13,000

Proposed development tasks:

- Prepare acquisition and ingest plan for SFU email accounts
- Test capture of Zimbra as maildir and conversion to mbox
- Incorporate tool for converting from maildir to mbox into Archivemata and add conversion micro-service
- Establish descriptive metadata requirements for Zimbra and maildir/mbox AIPs
- Assist SFU Archives to acquire Zimbra backups and prepare them for ingest
- Assist SFU Archives to load derived mbox files into test email accounts to verify that content matches original Zimbra backups

Phase 5: 112 hours

Development area: **Manage sets of records in AtoM**

Priority: high

Estimated development cost: \$14,560

Development tasks:

- Add user interface to select ad-hoc set of archival descriptions from search and advanced search results page
- Add user interface to select ad-hoc set of archival descriptions from browse page
- Save selected archival descriptions from multiple searches and browses in browser session
- Add page to view, sort and remove selected descriptions
- Print selected descriptions (using HTML/CSS print template)

Phase 6: 72 hours

Development area: **Web archiving**

Priority: high

Estimated development cost: \$9,360

Development tasks:

- Analyze WARC header information and prepare metadata mapping to Archivemata AIP METS file

- Add Archivematica micro-services to parse WARC header information to Archivematica METS file

Phase 7: 34 hours

Development area: **Fixity checking and reporting**

Priority: high

Estimated development cost: \$4,420

Development tasks:

- Document how to run collection wide fixity check "on demand" using existing fixity CLI python application
- Add script to send email alerts to administrator(s) when a fixity check fails
- Modify Storage Service to record time and results of fixity checks; add column to packages tab

Phase 8: 100 hours hours

Development area: **Transfer backlog search and retrieval enhancements**

Priority: high

Estimated cost: \$13,000

Development tasks:

- Add ability to search transfers from archival storage tab
- Add ability to download copies of transfers or selected files from archival storage tab
- Add ability to perform transfer deletion requests from archival storage tab

Phase 9: 0 hours

Development area: **Atom accessions module enhancements**

Priority: medium

Estimated development cost: \$0

- Scope as separate development contract

Phase 10: 8 hours

Development area: **Atom permalink URLs**

Priority: medium

Estimated development cost: \$1,040

Development tasks:

- Allow administrator to select option for default permalinks (title, reference code)

Phase 11: 12 hours
Development area: **Archivematica OCR micro-service**
Priority: medium

Estimated development cost: \$1,560

Development tasks:

- Add Tesseract shell script developed by SFU Library to Archivematica to create a PDF with an OCR'd text layer as preservation layer

Phase 12: 4 hours
Development area: **AtoM treeview enhancements**
Priority: medium

Estimated cost: \$520

Task:

- Deploy World Bank inventory list feature and Canadian Museum of Human Rights full-width treeview (both in qa/2.3.x) to SFU Archives AtoM development/testing instance for assessment

TOTAL ESTIMATED DEVELOPMENT COSTS: \$121,160

ESTIMATED COMMUNITY SUPPORT FEE: \$10,000

TOTAL ESTIMATED PROJECT COSTS: \$131,160