

# Engage 0.3 Technical Tasks

## General Tasks

- Improve load times by using a custom Infusion build for Engage
  - Two scenarios:
    1. automate Engage script to automatically build and relink *3 days*
      - determine all the modules needed by engage and make a custom build using those
      - split the engage build so that you can do either production or src
      - make the production build use the rewrite head functionality so that the heads are linking to infusion all
    2. statically make a custom build and commit alongside Engage *1.5 days*
- Generalize spinner and loading page from Browse *1 day*
- Generalize Browse and Navigation List structure to use it in Exhibitions, Catalogue, and Browse by theme *1 day*
  - Make it configurable so that users can easily compose a combination of NavList, Cabinet, More, etc.
- Work with Hugues to determine how he will deploy Engage for the pilot *2 days*
- Fix Safari touch delay if necessary *3 days*
- Improve error messages *0.5 day*

## Data

### Import

- Extend import to be able to crawl multiple data feeds (e.g. McCord exhibit + artifacts) *3 days*
- Deal with HTML tags included in XML (e.g. from McCord) *3 days Antranig, can you verify?*
  - Fix bug in parser where comments appear in the document, as well as other nesting problems
  - Ensure that fields with HTML inside them are treated as "innerHTML strings"
- Import a good, fresh snapshot of all the McCord data for the pilot *0.25 day*
- Upgrade to Couch 0.10 *1 day*
  - Working Jamon on the infrastructure
  - Replicate existing design documents (or import by hand)

### Multilingual Support

- Implement the language preferences screen using cookie support *0.5 day*
- Localization: ensure all components load Strings from a properties file or strings: option *4 days*
  - Deliver localized string from server to client (through options, probably)
  - Update component trees to render the localized messages for all labels in the UI
- Translate our strings to French (McCord) *0.75 day*
  - Coordinating with Hugues to do the translation
  - Writing an i18n test plan
- Ensure all data feeds accept a language parameter and that results are returned correctly *0.5 day*
- Create Couch views to retrieve documents in one language or the other *0.5 day*
- Import French data - import, sniff test and coordinate with Hugues *0.5 day*

### Data Access Layer

- Refactor data mapping to be fully declarative
  - Impelementing current map algorithm as a "resaper" with a generic mapping strategy
- Store data map documents in Couch
- Implement "dataSourceSpec" or similar declarative way of defining data feeds
- Connect up with ChangeApplier to enable totally automated data access
- make all components work with the new data access layer

## Home Page

- Implement a home page with links to Exhibitions, My Collection, Object Code, Language Preferences, and Login *1 day*

## Navigation

### Next/Previous Item Paging

- Fix paging to open at a particular page *0.5 day*
  - Currently, when you click on an artifact, you don't see it, instead you see the first in the batch list
- Refactor paging to conform to Pager Model *Done*
- Update ArtifactView to use this, and integrate into NavBar *1 day*

### Navigation Bar

- Implement Navigation Bar functionality for a variety of components *1 day*

- home - get button from designers
- Up/down arrow for Artifact View
- Back and should appear wherever appropriate
- Optional support for list/grid toggle

## Growable List - Navigation List + biggerer subcomponent

- Share code with Paging to fetch data *0.5 day*
- Write code to accumulate up a "growing model" and re-render the component *1 day*
  - Fetch (shared with Paging), change model, re-render (implemented in NavList)

## Navigation List

- Refactor as a "Thumbnail + Title + Description List" component (if necessary) *1 day*
  - Better flexibility for item descriptions and maybe title
  - Move "More" and Paging concerns out
- Add support for refreshing views in NavigationList *0.5 day*
- Make NavList restylable as a grid *1 day*

## Exhibit View and Browse

- Code review and refinements to: *2 days*
  - Exhibit Main and About (a.k.a. View)
  - Exhibit Browse
  - Exhibit Catalog
- Update Exhibit View to match Main and About wireframes *2 days*
  - Requires creating the Comment component as well
- Update Catalog to match wireframes *3 days*
  - Includes support for toggling between list and grid views
  - Includes searching

## My Collection

- Review Sveto's My Collection and plan next steps *2 day*
  - Determining if we can reuse or redesign aspects of it including list/grid view toggle
  - See if the Fliqor demo also has similar code to reuse
- Implement my collection email *1 days/5 days*
  - Maybe implement this a simple service; we sent the collection information to a "mailer" data service
  - Otherwise will integrating with Java mail APIs, creating JavaScript wrappers, and ensuring server configuration
- Remove reordering from mobile version of My Collection *0.25 day*
- Implement desktop web version of My Collection *3 days*
  - Status bar with login information
  - Parameterize Artifact View so that the artifact title can be moved above the image and linked
  - Ability to delete artifacts from the collection on hover

## Comments and Guest Book

- Implement comment saving *2 days*
  - Determine how to structure shadow documents; as attachments?; within a known field in the document itself?
  - Depends on login infrastructure
- Implement comments list view *0.5 day*
- Implement comments entry screen *0.5 day*
- Integrate comments with Exhibit Main and Artifact View *0.5 day*

## Login and Sign Up

- Implement the wireframes as components/html pages + JS *1 day*
  - Includes "Sign In/Sign Up/Cancel" dialog over Artifact View and Guest Book when commenting
- Need to add Kettle API for generating password hashes *1 day*
- Add support for HTTPS *5 days*
- Ensure user information is stored in a cookie *0.5 day*
- Design a strategy for identifying users: *1 day*
  1. Museum device: for the duration of using the device (cleared upon quitting the browser)
  2. Personal: forever (unless user clears their cookies)

## Artifact

- Artifact View bugs from 0.1
  - Pathing issues *1 day Antranig, can you confirm?*
  - Etc. (need to through JIRA and list specific bugs that are relevant)
- Update Artifact View to latest wireframes *2.5 days*
  - Implement audio/video for artifacts

- Refine Artifact View to handle missing data
- Remove Tags from Artifact View (ditch it completely from svn) *0.25 day*
- Code review, refine, commit Sveto's changes to artifact that allows users to collect an item. *1 day*

## Object Code Entry

- Implement Object Code component *2 days*
- Create Couch view for searching by code *0.25 day*

## QA Tasks

- Create test plans for Voice Over screen reader with iPhone *2 days*
- Create test plans for all new functionality and update for existing screens *2 days*

## Things to Consider

- Ensure we QA test on the iPod touch

## Questions/Comments for Design

- What about upcoming exhibitions? Do we need to support them for 0.3?
- Guest book could use some tweaking; modal dialog for login
- How does the Report Abuse button work?
- What happens if a user creates a collection that is associated with their account, then leaves, comes back another day, creates a new collection when they're not logged in, then goes to log in. Do they lose this new collection, or does it get merged into their existing collection?

## Questions for Hugues

- Do we have data consisting of multiple images for a single artifact?
- Can we get media data that include the duration of movies and audio?
- Can we get images in the following sizes?
  - 320 x 240 for main artifact images
  - 64 x 64 or smaller for thumbs
- What should we do with Report Abuse for comments in 0.3?
- What strategy should we use for mailing users with their collection?
- Can you tell us the 1:1 mapping of the fields in the mobile wireframes and fields in the XML?

## Stuff to Punt

- (Kettle) update kettle to JSGL 0.2
- (Performance) Investigate local caching as a way of improving speed
- Finish unobtrusive screen navigator
  - Remove content-specific contract: replace with "auto-portalization"
  - Improve unit tests
- Implement events listing on the exhibit view page. Do we have data for the events?
- Events information page. What do those page icons do?
- Implement audio/visual links from exhibit page. Do we have data for that?
- Test reordering on iPod
- Fix Reorderer scrolling for iPod
- ~~Create comment input page~~ (this should stay)
- Includes refinements to mobile FSS
- Create a myInfusion file that contains the base requirements not files that are only needed in a single component.
  - the build scripts should be made modular enough to build a myInfusion file that doesn't modify the source directory but only assembles a subset

## Artifact View

- Description: generalize as a more/less toggle *1 day*
  - Will implement as a simple function
  - Specify height in one place
  - Externalize the truncation code.