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LABEL Home

Objective

The Label and Barcode Excerpt Locator (LABEL) system is a responsive web application for finding and displaying information about FDA prescription and over-the-counter drugs using search terms and product barcodes.

Schedule

Team

Because of limited time and resources, a number of team members will be playing dual roles.

Role	GSA Agile Labor Category	Resource
Product Owner		Joshua Phillips
Product Manager	Product Manager	Patrick McConnell
Architect	Technical Architect	Joshua Phillips
Usability Tester	Interaction Designer / User Researcher / Usability Tester	Ben Traynham
Technical Writer	Writer / Content Designer / Content Strategist	Patrick McConnell
UI Designer	Visual Designer	Ben Traynham
Technical Lead		Denis Krylov
Frontend Engineer	Frontend Web Developer	Janakiram Gollapudi Lalit Agarwal
Backend Engineer	Backend Web Developer	Gopal Unnikrishnan
DevOps Engineer	DevOps Engineer	Denis Krylov
Project Manager	Delivery Manager	Patrick McConnell
	Agile Coach	
Business Analyst	Business Analyst	Patrick McConnell
	Digital Performance Analyst	
User/Stakeholder		Vasudev Chatti

In order to really understand what people need, we have included "users" from the beginning of the project. These are:

- Paul Baumgartner, senior project manager in "real life"
- Vasudev Chatti, project manager in "real life"
- Ramakrishna Gundala, senior software engineer in "real life"

Meetings

- Daily scrums: 4 PM EST @ +1-312-757-3131 | 846863757 | <https://gotomeet.me/SemanticBits2>

Resources

- Jira, Crucible, Git
- USDS Playbook
- UI Style Guide

Architecture

- Scenarios
- Logical View
 - Component Layers
 - View Components
 - Controller Components
 - Service Components
- Development View
- Process View
- Physical View

Scenarios

Following are the architecturally important scenarios.

Key	Summary	Epic Link
LABEL-41	User navigates back to search from label details	LABEL-24
LABEL-40	User views help tooltip for barcode search	LABEL-24
LABEL-39	User views help tooltip for regular search	LABEL-24
LABEL-38	User navigates to and views Help page	LABEL-24
LABEL-37	User navigates to and views Contact page	LABEL-24
LABEL-36	User navigates to and views About page	LABEL-24
LABEL-35	System searches by barcode image through REST-like service	LABEL-22
LABEL-34	System fetches all details for a label through REST-like service	LABEL-22
LABEL-33	System performs query through REST-like service	LABEL-22
LABEL-32	User views all information for a label	LABEL-23
LABEL-31	User browses results from a search	LABEL-23
LABEL-30	User performs search by barcode	LABEL-22
LABEL-29	User switches between text and barcode search	LABEL-22
LABEL-28	User enters hashtag to perform advanced search	LABEL-22
LABEL-26	User searches for labels from the results	LABEL-22

LABEL-25

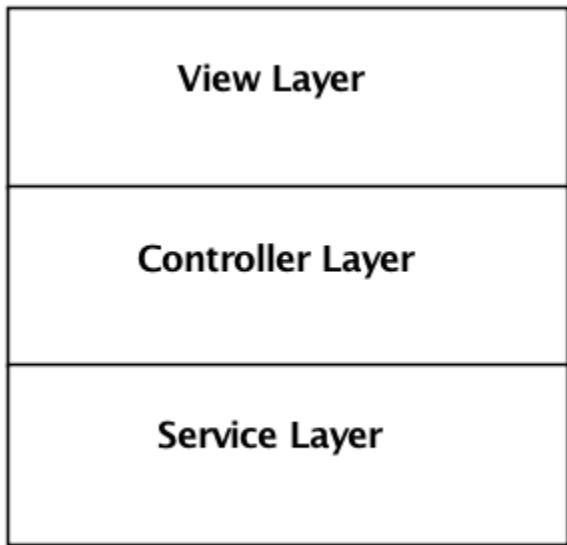
page

User searches for labels from the home page

LABEL-22

Logical View

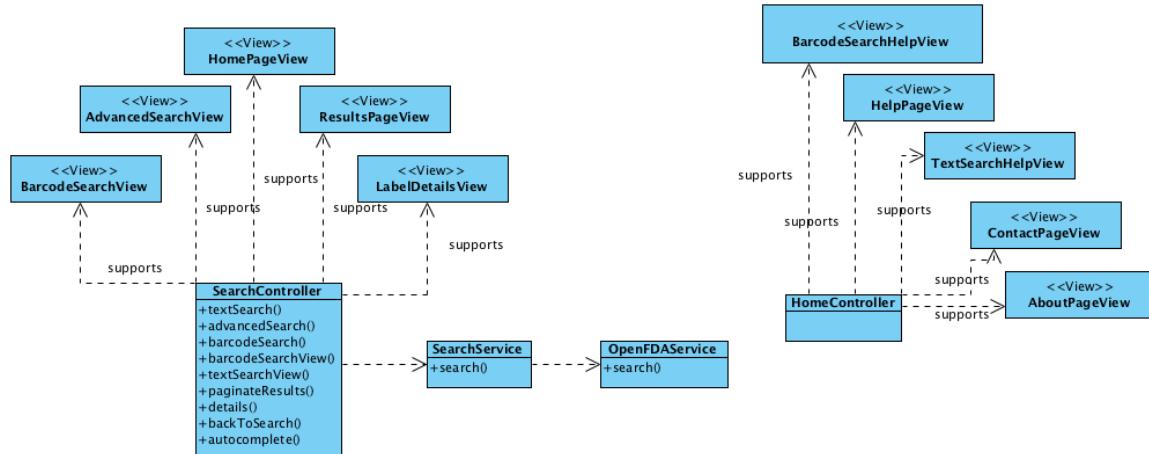
Component Layers



The LABEL application components are organized into three layers:

- View: Components responsible for rendering the Web-based UI - HTML, CSS, JavaScript.
- Controller: Components responsible for responding to user actions via the Web browser.
- Service: Components that encapsulate business logic and interact with external services.

LABEL does not have its own persistence layer.



View Components

Refer to [wireframes and mockups](#).

- HomePageView (LABEL-25): Renders the initial search controls (box and button).
 - AboutPageView (LABEL-38): Renders the About page.
 - ContactPageView (LABEL-37): Renders the Contact page.
 - HelpPageView (LABEL-36): Renders the Help page.
 - TextSearchHelpView (LABEL-39): Renders the Help tooltip for text search.
- ResultsPageView (LABEL-26): Renders search results, controls to navigate the results, and search controls.
- AdvancedSearchView (LABEL-28): Allows the user to search against individual fields.
- BarcodeSearchView (LABEL-30): Allows the user to search by barcode.
 - BarcodeSearchHelpView (LABEL-34): Renders the Help tooltip for barcode search.
- LabelDetailsView (LABEL-32): Renders all fields of the label.

Controller Components

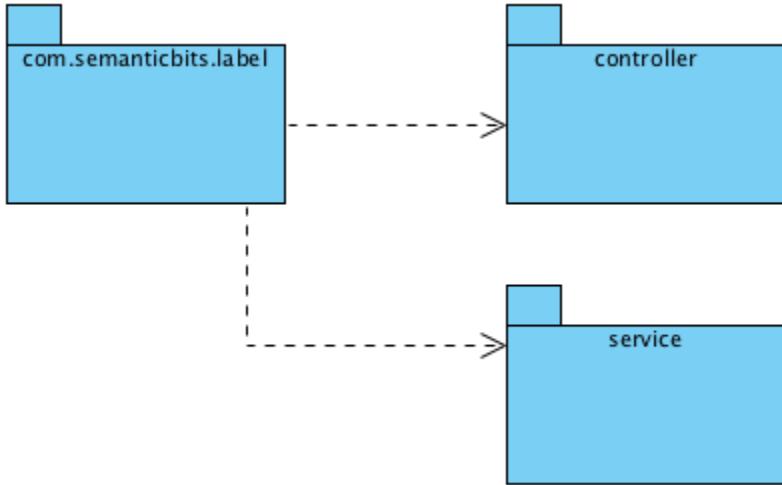
- SearchController: Supports all search-related views.
 - textSearch (LABEL-25, LABEL-26): Supports searching against all fields from HomePageView or ResultsPageView. Delegates to SearchService.search.
 - advancedSearch (LABEL-28): Supports searching against a given field from AdvancedSearchView. Delegates to SearchService.search.
 - barcodeSearch (LABEL-29): Supports searching by barcode. Delegates to advancedSearch.
 - barcodeSearchView (LABEL-29): Supports switching to the BarcodeSearchView.
 - textSearchView (LABEL-29): Supports switching to the HomePageView or ResultsPageView.
 - paginateResults (LABEL-31): Supports navigation between pages of results on the ResultsPageView.
 - details (LABEL-32): Directs the user to the Label Details view for a given label. Passes "query" and "offset" parameters to allow returning to the previous search results.
 - backToSearch (LABEL-41): Directs the user back to the previous search, positioned on the appropriate page. Uses the "query" and "offset" parameters based from the LabelDetailsView.
 - autocomplete (LABEL-28): Returns field names, given the first few characters.
- HomeController: Supports all non-search resulted views.
 - home (LABEL-25): Directs the user to the Home page.
 - about (LABEL-38): Directs the user to the About page.
 - contact (LABEL-37): Directs the user to the Concat page.
 - help (LABEL-36): Directs the user to the Help page.
 - textHelp (LABEL-39): Supports rendering Help tooltip for text search.
 - barcodeHelp (LABEL-34): Supports rendering Help tooltip for barcode search.

Service Components

- SearchService: Supports SearchController operations. Encapsulates OpenFDAService API access.
 - Collaborators
 - openFDAService
 - Operations
 - search: Supports all search operations (text, advanced, barcode, paginate). Delegates to OpenFDAService.
 - Inputs:
 - query (JSONObject): Key-value pairs, where key is the search field and value is one or more search values. Each search term is included in a logical AND, while each search term value is included in a logical OR.
 - offset (Integer): The index of the first result set item to include.
 - pageSize (Integer): The number of results to return.
 - Outputs:
 - results (JSONObject): Has the following nested structure
 - count: Total number of results matching the query.
 - offset
 - pageSize
 - items: Array of result items, following the OpenFDA JSON structure.
- OpenFDAService (LABEL-33, LABEL-34, LABEL-35): Handles all interaction with the OpenFDA REST API.
 - Properties
 - apiKey: The OpenFDA API key.
 - apiURL: The OpenFDA API URL.

- Operations
 - search: Interacts with the OpenFDA REST search API.
 - Inputs:
 - query (JSONObject): The same key-value pairs structure passed to SearchService.search.
 - Outputs:
 - results (JSONObject): Array of items returned by the OpenFDA API.

Development View

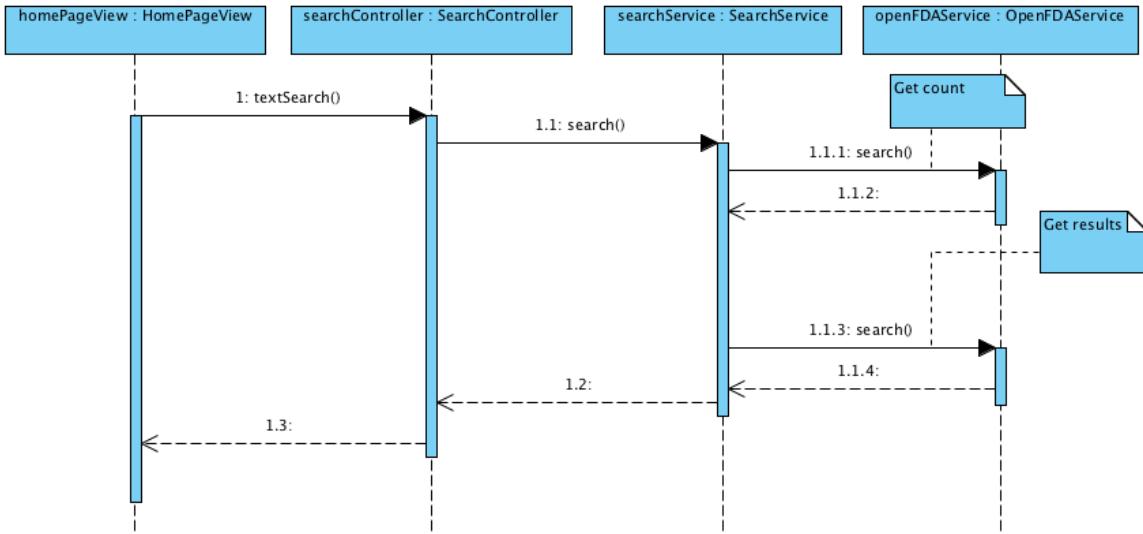


The LABEL application consists of a single Grails module, which is packaged as a Java EE Web Application Archive (war) file, which is deployed to an Apache Tomcat servlet container. In general, classes are organized according to the Grails standard structure. All application code is included in the `com.semanticbits.label` package. Sub packages include:

- controller: All controller components.
 - service: All service components.

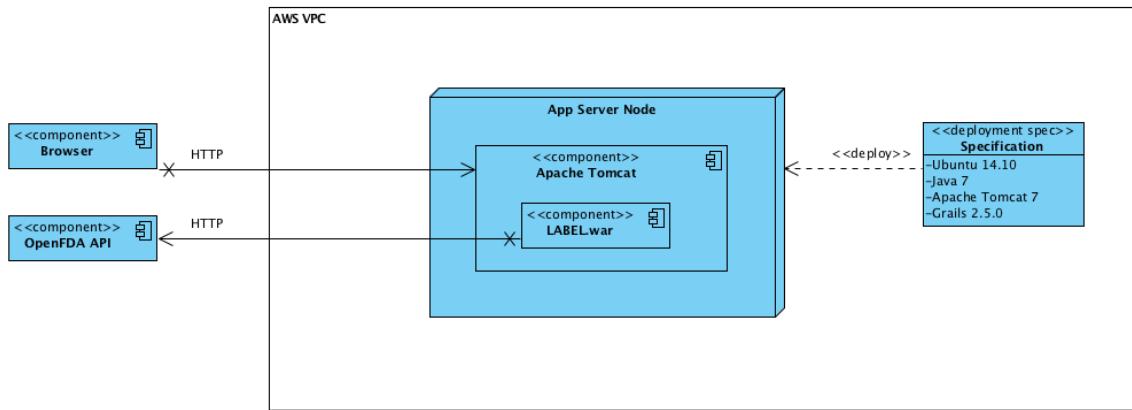
Spring is used to "wire" together collaborators, using a dependency injection pattern - e.g. SearchService is wired to the SearchController; OpenFDAService is wired to the SearchService. All properties (e.g. OpenFDAService.apiKey) are injected by Spring.

Process View



The user submits a query from his browser. SearchController formulates the query JSON from the HTTP parameters and delegates to SearchService. SearchService interprets the query JSON and pagination parameters and delegates to OpenFDAService to obtain the count and query results via the OpenFDA API. OpenFDAService returns the query as JSON. SearchService modifies the results to include only the desired page.

Physical View



A complete specification of the deployment environment is found in the LABEL Vagrant file - <git_repo>/vm/Vagrantfile.

Configuration Management

- Overview
- Version Control Process
- Collaboration Process
- Release Process
- Deployment Process
- Source Code Repository Structure
- Environment Configuration Items
- Credentials
- Third-Party Software

Overview

This page describes our Agile configuration management process.

Version Control Process

All source code and configuration artifacts will be pushed to the Git repository on an at least daily process. The Git repository is [here](#).

Collaboration Process

We follow the GitFlow workflow as described [here](#), utilizing the [git-flow plugin](#). We use the default branch naming model - e.g. release/1.0 not release-1.0. Feature branches are named according to the user story being implemented - e.g. feature/LABEL-123.

Release Process

In projects of normal length (e.g. at least three months), we would create a release branch at the end of each sprint. However, since this project is only a few days, we will create a single release branch 1.0, which will be pushed to the master branch when it has passed all UATs for this release.

Required artifacts for release include:

- Release Notes: A file named RELEASE_NOTES.pdf, exported from JIRA
- Documentation: A file named LABEL_DOCS.pdf, exported from Confluence.
- Executable: A file named label.war, generated by the Release (UAT) Build (see below).
- Source Code: Delivered daily to the Git repository and tagged for each release.

The above artifacts are checked into the docs directory of the Git repository in the release branch.

For this project, we will produce a single release, named 1.0. Each release build that is deployed to the UAT instance will be tagged with as release-1.0-RC1, release-1.0-RC2, etc. The 1.0 release will have the tag release-1.0.

Deployment Process

Our deployment process is entirely automated via Jenkins builds:

- Integration Build (label-dev): This build deploys to our DEV instance on a nightly basis, but can be triggered manually via the Jenkins UI. It is a child of label-unit > label-integration > label-functional, which must all pass.
- Release/UAT (label-uat): This build deploys to our QA/UAT instance. It deploys from a given tag. It is triggered manually via the Jenkins UI.

Source Code Repository Structure

The Git repository has the following structure, under each branch.

- **code:** All application software.
 - LABEL: The LABEL Grails application. This directory follows the normal [Grails project structure](#).
- **docs:** Documentation artifacts.
 - RELEASE_NOTES.pdf: Release notes exported from JIRA.
 - LABEL_DOCS.pdf: Documentation exported from Confluence.
- **vm:** DevOps artifacts - e.g. Vagrant, Chef, Bash, etc. scripts for automating the environment.

Environment Configuration Items

We have provisioned three environments for this project:

- DEV: Used for integration testing.
- QA: Used for QA verification and UAT.
- CI: Used for continuous integration and automated testing.

Within the LABEL Grails application, configuration items are externalized in `~/.label/label-config.groovy`. The configuration has the following general structure.

```

env=System.getenv() //Access to shell environment variables
//Common configuration items
environments{
    dev{
        //DEV specific items
    }
    qa{
        //QA specific items
    }
    ci{
        //CI specific items
    }
}

```

Following are the configuration items that we track. Changes to these items must be discussed with the team and approved by the Architect. AWS configuration items below are set as environment variables on a developer's workstation and are passed to Vagrant scripts when executing `vagrant up`.

Identifier	Value	Description
AWS_DEV_ELASTIC_IP	54.175.56.188	The IP address of the DEV server.
AWS_QA_ELASTIC_IP	54.175.144.58	The IP address of the QA server.
AWS_CI_ELASTIC_IP	54.172.116.12	The IP address of the CI server.
AWS_SUBNET	subnet-fb5896d0	A subnet in which to create instances without elastic IP addresses, such as Jenkins slaves.
AWS_CI_SLAVE01_IP	172.31.31.253	The IP address of the Jenkins Linux slave that belongs to the subnet above.
AWS_WIN_PASSWORD	***	The password to the Jenkins Windows slave.
OPENFDA_URL	https://api.fda.gov/drug/label.json	The URL of the OpenFDA API.
OPENFDA_KEY	***	The API key for the OpenFDA API.

Credentials

All credentials are stored in a secure location that is managed by the Product Owner. All scripts and code access credentials via environment variables or protected files. They are never checked in to the source code repository. The following credentials are used by this project.

- OpenFDA API Key: Used to interact with the OpenFDA API.
- AWS Access Key ID and AWS Secret Key: Used to interact with AWS APIs.
- AWS Environment Keypair: We use a key pair to enable password-less login for DevOps automation.
- GitHub OAuth Token: Used by Git to pull the code on the EC2 VMs.
- GitHub Client ID and Secret: We are using GitHub as an identity provider for Jenkins. CI authenticates users via GitHub.

AWS credentials are associated with a specific AWS policy that restricts access to the environment.

Third-Party Software

Each piece of third-party software used at run-time by this project is listed below.

Name	Description	License
DataTables(jquery.dataTables.min.js)	DataTables is a plug-in for the Javascript library. It is a highly flexible tool, based upon the foundations of progressive enhancement, and will add advanced interaction controls to any HTML table.	MIT License(datatables.net/license)
ZXing	ZXing ("zebra crossing") is an open-source, multi-format 1D/2D barcode image processing library implemented in Java,	Apache License Version 2.0 (https://github.com/zxing/zxing/blob/master/COPYING)

Environments

- Authentication
- Dev
- QA
- CI

Authentication

Use AWS credentials to log in to the nodes below.

Dev

- Name: LABEL-DEV
- App URL: <http://ec2-54-175-56-188.compute-1.amazonaws.com:8080/LABEL/>
- Notes: Refreshes nightly or upon a successful CI build: label-unit > label-integration > label-functional.

QA

- Name: LABEL-QA
- App URL: <http://ec2-54-175-144-58.compute-1.amazonaws.com:8080/LABEL/>
- Notes: Refreshes on-demand from a Git tag.

CI

- Name: LABEL-CI-JENKINS
- App URL: <http://ec2-54-172-116-12.compute-1.amazonaws.com:8080/>
- Notes: Developers use their GitHub username/password to log in.

- Name: LABEL-CI-LINUX
- Private IP: 54.175.36.85
- Notes: Managed by LABEL-CI-JENKINS

- Name: LABEL-CI-WINDOWS
- Private IP: 172.31.63.203
- Notes: Managed by LABEL-CI-JENKINS

Human-centered Design

- Background
 - ISO Standard
 - IDEO
- Use in the LABEL application
 - ISO Standard Use in LABEL
 - IDEO Field Guide Use in LABEL

Background

These are the user-centered design standards/best-practices that we apply.

ISO Standard

ISO 9241-210:2010 provides requirements and recommendations for human-centred design principles and activities throughout the life cycle of computer-based interactive systems. It is intended to be used by those managing design processes, and is concerned with ways in which both hardware and software components of interactive systems can enhance human–system interaction.

Human-centred design is an approach to interactive systems development that aims to make systems usable and useful by focusing on the users, their needs and requirements, and by applying human factors/ergonomics, and usability knowledge and techniques. This approach enhances effectiveness and efficiency, improves human well-being, user satisfaction, accessibility and sustainability; and counteracts possible adverse effects of use on human health, safety and performance.

The ISO standard describes 6 key principles that will ensure a design is user centered:

1. The design is based upon an explicit understanding of users, tasks and environments.
2. Users are involved throughout design and development.
3. The design is driven and refined by user-centered evaluation.
4. The process is iterative.
5. The design addresses the whole user experience.
6. The design team includes multidisciplinary skills and perspectives.

IDEO

IDEO.org is a registered 501(c)(3) nonprofit dedicated to applying human-centered design to alleviate poverty. IDEO.org is dedicated innovation, great design, and changing lives.

Human-centered design is a creative approach to problem solving. It's a process that starts with the people you're designing for and ends with new solutions that are tailor made to suit their needs. Human-centered design is all about building a deep empathy with the people you're designing for; generating tons of ideas; building a bunch of prototypes; sharing what you've made with the people you're designing for; and eventually putting your innovative new solution out in the world.

Human-centered design consists of three phases. In the Inspiration Phase you'll learn directly from the people you're designing for as you immerse yourself in their lives and come to deeply understand their needs. In the Ideation Phase you'll make sense of what you learned, identify opportunities for design, and prototype possible solutions. And in the Implementation Phase you'll bring your solution to life, and eventually, to market. And you'll know that your solution will be a success because you've kept the very people you're looking to serve at the heart of the process.

Use in the LABEL application

Following is a description of how we use each of these standards in the LABEL application.

ISO Standard Use in LABEL

1. The design is based upon an explicit understanding of users, tasks and environments.

One of the initial tasks was for us to define our user base, which is the general public that is interested in learning more about their prescription or over-the-counter drug. We understand that they will be searching mostly with free text, occasionally by an image of the barcode on their medication, and less frequently by specific fields. Furthermore, they'll be using their desktop or mobile device.

2. Users are involved throughout design and development.

We incorporated user involved from day one, reviewing wireframes, mockups, prototype, and release implementation.

3. The design is driven and refined by user-centered evaluation.

Feedback was documented, evaluated, and incorporated at each step (iteration).

4. The process is iterative.

Because of the short timeline, we iterated every single day.

5. The design addresses the whole user experience.

The design addressed the user experience on different platforms and at every aspect of the application.

6. The design team includes multidisciplinary skills and perspectives.

The design team included a UI Design specialist, project manager, and product owner, providing a wide array of perspectives.

IDEO Field Guide Use in LABEL

The LABEL project utilized the following Human-centered Design techniques or tools:

- **Create a Project Plan:** created a project plan with key design milestones, review sessions, etc.
- **Build a Team:** our team included a Product Owner, Lead Designer, Project Manager, and stakeholders/users
- **Group Interview:** during design review sessions, got feedback on needs
- **Define Your Audience:** early on we determined our audience would be the general public, not specialists, physicians, or the government (though those people could be part of the general public)
- **Analogous Inspiration:** we used Google.com as an "analogous" search engine to look at for presenting results of free-text searches
- **Draw It:** we used interactive wireframing sessions
- **Find Themes:** we looked through our notes on our design sessions and identified a theme around clearly marking the purpose of buttons/links
- **Brainstorm:** the early iterations of the design brainstormed on many ideas, such as focusing the entire application on barcodes to using rules to help find adverse events
- **Get Visual:** we used wireframes to visualize the design
- **Create a Concept:** we used mockups to conceptualize the design
- **Gut Check:** the Product Owner and Project Manager took a gut check on results of design sessions and tossed some ideas due to time constraints and kept others that seemed to really "matter" to the users
- **Determine What to Prototype:** as part of our iterative approach, the most important features to users were placed first in the list
- **Rapid Prototyping:** our prototyping work implemented the initial user interface in a single day
- **Get Feedback:** through iteration on wireframes, mockups, prototype, and implementation we were able to gather feedback at each step
- **Integrate Feedback and Iterate:** each step mentioned above incorporated feedback gathered from the previous step
- **Roadmap:** we created an initial roadmap for the project that incorporated users at every single step
- **Staff Your Project:** we staffed our project with a wide array of resources and roles
- **Keep Iterating:** we iterated on the design and implementation every single day

Meetings

S1 - Inception Planning and Wireframe Review

Project name	Label
--------------	-------

Prepared by	Patrick McConnell
Location	+1-312-757-3131 846863757 https://gotomeet.me/SemanticBits2
Start time	6/18/2015 4 PM
End time	6/18/2015 5 PM

Agenda

Topic	Lead Attendee
Initial task assignment	Patrick McConnell
Initial wireframe review	Patrick McConnell

Attendees

Individual	Attended	Contact
Joshua Phillips	Yes	joshua.phillips@semanticbits.com
Patrick McConnell	Yes	patrick.mcconnell@semanticbits.com

Notes

Initial Task Assignment

Initial set of tasks looks good.

Denis should focus on getting environments up and Gopal should focus on getting baseline code checked in.

Wireframes

Let's simplify the query interface - no need for "Add Term" and "Remove Term" functionality. Make it more Google-like.

Use hashtag to start auto-complete on fields. Make it kind of like GMail query.

Organize results by categories instead of organized by OpenFDA query return.

Action Items

Task	Assignee	Due Date	Notes
Make initial assignments	Patrick	6/18	
Finish first pass at wireframes	Patrick	6/19	
Begin architecture document and other documents	Joshua	6/19	
By end of 6/19 make mockup assignment to Ben	Patrick	6/19	

S2 - Scrum, Retrospective, and Planning

Project name	Label
Prepared by	Patrick McConnell
Location	+1-312-757-3131 846863757 https://gotomeet.me/SemanticBits2
Start time	6/19 4:00 PM
End time	6/19 4:30 PM

Agenda

Topic	Lead Attendee
Scrum	Patrick McConnell
<ul style="list-style-type: none"> • What have you completed since last scrum? • What are you planning to complete before the next scrum? • Do you have any roadblocks? 	
Retrospective	Patrick McConnell
Planning	Patrick McConnell

Attendees

Individual	Attended	Contact
Patrick McConnell	Yes	patrick.mcconnell@semanticbits.com
Joshua Phillips	Yes	joshua.phillips@semanticbits.com
Denis Krylov	Yes	denis.krylov@semanticbits.com
Gopal Unnikrishnan	Yes	gopal.unnikrishnan@semanticbits.com
Janakiram Gollapudi	Yes	janakiram.gollapudi@india.semanticbits.com
Lalit Agarwal	Yes	lalit.agarwal@semanticbits.com

Notes

Scrum

Denis

- Set up development branch
- Finishing up environments in Amazon - should be done shortly

Gopal

- Built baseline app
- Configured code coverage and other tools
- Got up hello world page
- Reviewed and checked in

Janakiram

- Reviewed barcode API
- Reviewed Open FDA
- Unable to log into Confluence - call Kumar and get resolved by end of night

Lalit

- No updates

Joshua

- No progress on docs - will start on Monday
- Tagged on issues - will look through them on Monday

Patrick

- Wireframes complete
- Did

Retrospective

What went well this sprint?

- Wireframes review was more useful than expected

What can be improved for next sprint?

- More punctual starting and closing sprints in JIRA Agile
- Grails version changes caused some problems getting the application going.
 - IDE support is also causing some problems?
 - Should we downgrade grails? - No, it is resolved
 - Will the newer version slow us down? No, it should work fine with Eclipse but not with IntelliJ 12
 - What version of Grails? 2.5.0

Planning

S3

- Get environment set up on everyone's machine
- Get CI going
- Get user stories complete
- Review mockups

S4

- Gopal: write backend services
- Janakiram: search and results
- Lalit: label

S5

- Gopal: more backend services
- Janakiram: type-ahead
- Lalit: barcode

S6

- UAT and bug fixes

S7

- Documentation and completion

Action Items

Task	Assignee	Due Date	Notes
Complete environments	Denis	Today	
Get mockups going	Patrick	Today	

Complete mockups over the weekend	Ben	Monday	
-----------------------------------	-----	--------	--

S2 - Wireframe Review with Users

Project name	Label
Prepared by	Patrick McConnell
Location	+1-312-757-3131 846863757 https://gotomeet.me/SemanticBits2
Start time	6/19 3:30 PM
End time	6/19 4:30 PM

Agenda

Topic	Lead Attendee
Wireframe review with "users"	Patrick McConnell

Attendees

Individual	Attended	Contact
Patrick McConnell	Yes	patrick.mcconnell@semanticbits.com
Vasudev Chatti	Yes	vasudev.chatti@semanticbits.com
Paul Baumgartner	Yes	paul.baumgartner@semanticbits.com
Ramakrishna Gundala	Yes	ramakrishna.gundala@semanticbits.com

Notes

Desktop

Home

What do you think is the purpose of the page?

Search based on label name

Switch to upload image of scanned barcode

Don't know the context - barcode of what?

What is the square for? - represents an image

Title and description of the page is not entirely intuitive. "Excerpt Locator" does not strike someone as knowing what it is doing - is it taking excerpts from a label or from a barcode.

What can you accomplish with the search by barcode link?

Enter in a barcode string into a text box.

What else would you expect to see on this page?

"Upload barcode image" or "Upload label image"

Instructions, such as what is the term that the user is expected to enter. Adverse events, side effects, indications

Include an image of a barcode from an actual product.

Results

What is the purpose of this page?

Listing all the labels that match.

Showing page 4 of at least 10 pages of results of labels that are a match with "carcinogen".

It is clear there are 253 results, but it is not clear how they are ordered?

Label names are links so seems you can click and get more information

Search term could be highlighted in summary text.

It is not clear the result number that the user is at on page 4.

Seems there are only 2 per page.

What do you think the header links do?

Take you to another page with more information about the drug.

What do you think the text below the drug names is?

The description.

What other information is necessary to make the decision on whether to click on one of the links?

Would want to narrow results down further because 253 results is too many.

Add the drug type.

Recommendations.

Ages it is suitable for.

How would you narrow the search down?

It isn't obvious, but perhaps add more terms to the search box.

Might want to exclude terms also.

Label

What is the purpose of this page?

Additional details for the drug. It isn't obvious what ID and version is for. There is a way to navigate to different sections or pages, probably sections.

Quick links are out of place on the left.

ID and version are unlikely to be interesting and should not be at the top.

Would placing links on left be jarring?

Could be, but would certainly be more useful. Could be placed at the top in a wide format as an alternative.

What can you accomplish on this page?

More information.

Feels like a wiki.

Might be able to drill down with hyperlinks once I dig deeper.

What would you do next?

Click on "back to search" if it isn't what I am looking for.

"Back to search" might take me back to my results or a new search.

Search

Read the help text. If you want to search for something more specific, do you think you could?

What is a full text search? I think it is saying enter text to search against everything.

How would you use the hash?

It is not clear what the fields are. Also, it isn't clear how to format using the hash.

It isn't clear how it would work with a regular search term.

Most people say "pound" instead of "hash".

Guessing labels will be very hard. Rather, "click this link to search on specific fields" to get a search that's field-based.

Would a more specific help link with field names, explanation, and examples be sufficient?

It should be.

After clicking "Search by Barcode", what should you do next?

Upload a barcode file. Consider the word "Upload" or "Select" instead of "Choose". "Choose" seems like it will list some barcodes.

What do you think about the help text?

It seems clear.

Second sentence is a little too much information and makes me second guess uploading it.

Mobile

Home

Do you know what to do next on your mobile device?

"Search by Barcode" should be "Upload Barcode Image".

Can you scan a barcode or only take a picture?

Center align search button or to the right adjacent to the field.

Results

Is the layout easy to read?

I can update search term, but can I cancel the search - maybe add an X button.

Center the search button.

May want to navigate to search results at top also.

How do you think you navigate in this page?

Navigation of paging is not clear as far as getting to the end, say number 250.

Label

What is the purpose of this page and how would you navigate through it?

Click links to navigate to section.

Logo seems to be large on mobile device.

How do you navigate in the page?

It is hard to tell it is a scrollable page from the wireframe.

A back to top link would be very helpful.

Functionality to expand and collapse the sections may be nice.

Would a back to top link be strange if you are already at the top?

Yes - put it in the bottom right-hand corner.

Action Items

Task	Assignee	Due Date	Notes

S3 - Scrum, Retrospective, and Planning

Project name	Label
Prepared by	Patrick McConnell
Location	+1-312-757-3131 846863757 https://gotomeet.me/SemanticBits2
Start time	6/19 4:00 PM
End time	6/19 4:30 PM

Agenda

Topic	Lead Attendee
Scrum <ul style="list-style-type: none">• What have you completed since last scrum?• What are you planning to complete before the next scrum?• Do you have any roadblocks?	Patrick McConnell
Retrospective	Patrick McConnell
Planning	Patrick McConnell

Attendees

Individual	Attended	Contact
Patrick McConnell	Yes	patrick.mcconnell@semanticbits.com
Joshua Phillips	Yes	joshua.phillips@semanticbits.com
Denis Krylov	Yes	denis.krylov@semanticbits.com
Gopal Unnikrishnan	Yes	gopal.unnikrishnan@semanticbits.com

Janakiram Gollapudi	Yes	janakiram.gollapudi@india.semanticbits.com
Lalit Agarwal	Yes	lalit.agarwal@semanticbits.com

Notes

Scrum

Denis

- Environments done
- Jenkins build for dev refresh

Gopal

- Will have some service done today
- Will finish tomorrow

Janakiram

- Set up local
- Questions on label search

Lalit

- Setting up local
- Will work on stories tomorrow

Joshua

- Working on configuration management - need to discuss
- Arch doc and design notes next

Retrospective

What went well?

- FDA docs were good and useful
- Aligning tasks well with the project plan
- Scrum has been informative and is going well

What can be improved?

- Daily sprints may not be warranted - reviewers may not find it practical
- May not be worth producing a release with all artifacts every day
 - Let's cut release tomorrow (Tuesday, S4, and Thursday, S6) instead

Planning

Have a release tomorrow to do CSS/images

Dependency between front-end and back-end services should mostly be resolved today, completed tomorrow

Action Items

Task	Assignee	Due Date	Notes

S4 - Mockup Review with Users

Project name	Label
Prepared by	Patrick McConnell
Location	+1-312-757-3131 846863757 https://gotomeet.me/SemanticBits2
Start time	6/23 1:00 PM
End time	6/23 2:00 PM

Agenda

Topic	Lead Attendee
Mockup review with "users"	Patrick McConnell

Attendees

Individual	Attended	Contact
Patrick McConnell	Yes	patrick.mcconnell@semanticbits.com
Vasudev Chatti	Yes	vasudev.chatti@semanticbits.com
Paul Baumgartner	Yes	paul.baumgartner@semanticbits.com
Ramakrishna Gundala	Yes	ramakrishna.gundala@semanticbits.com

Notes

Desktop

Home

Is the logo attractive? What does it make you think of when you see it?

Difficult to read the text underneath the logo. Everything else on the page is very legible. Probably font+color+size is contributing to the text under label.

The page looks very attractive.

Logo looks like a barcode.

Does the bottom part of the B look like a pill?

No, we thought it was a barcode.

What about making the whole thing a pill?

Yes, good idea!

What is the call to action on the page?

Enter something and click search.

Uploading a barcode image is a secondary feature.

Maybe include an upload icon.

Why include an upload icon - because it isn't clear or because that would make it more attractive?

Attractive.

It isn't obvious whether you will go to another page or not.

Might miss the fact that you could upload a barcode image because it is understated.

Maybe use the word "or" between.

Results

How does this page "feel"?

It doesn't look like headings are clickable links.

Make the current page index more pronounced because it isn't clear from just the bolding (maybe black background with white font).

Should there be an  icon in the search box.

Would you not know to click on the box, or do you think it would be more simple to have the icon?

More ease of use.

Label

First reaction?

I like it - it looks well organized.

What is the order of the contents? *The FDA site has this order.*

Will clicking the back button on the browser work? Yes.

Make "Set Id" to Set "ID"

What do you think you will be able to do on this page?

"Back to search results" instead of "Back to your search results"

Consider putting search bar on this page too.

Perhaps the header can include the search box (above back to your search).

Mobile

Home

Does this resemble what you expect a mobile site to look like?

Yes, it meets our expectations.

Other comments?

Same as other comments regarding Upload link.

Replace "terms" with "text"

If you were confused by what you could search, would you be able to find help?

Yes, most people will be fine.

But... no context on what type of label.

On regular one - "Enter **search** terms to **search** anywhere in drug labels" - too many search

Results

Are the results easy to see?

We don't need to keep the logo and search field as we scroll

We don't need so many details in the description. *It's supposed to be three lines*

Label

The table of contents as a drop-down menu is good.

Logo should disappear as you scroll. Yes

Table of contents stays? No

It might be nice to keep it at the top. *We can have it also stick*

Action Items

Task	Assignee	Due Date	Notes

S4 - Scrum, Retrospective, and Planning

Project name	Label
Prepared by	Patrick McConnell
Location	+1-312-757-3131 846863757 https://gotomeet.me/SemanticBits2
Start time	6/19 4:00 PM
End time	6/19 4:30 PM

Agenda

Topic	Lead Attendee
Scrum <ul style="list-style-type: none">• What have you completed since last scrum?• What are you planning to complete before the next scrum?• Do you have any roadblocks?	Patrick McConnell
Retrospective	Patrick McConnell
Planning	Patrick McConnell

Attendees

Individual	Attended	Contact

Patrick McConnell	yes	patrick.mcconnell@semanticbits.com
Joshua Phillips	yes	joshua.phillips@semanticbits.com
Denis Krylov	yes	denis.krylov@semanticbits.com
Gopal Unnikrishnan	yes	gopal.unnikrishnan@semanticbits.com
Janakiram Gollapudi	yes	janakiram.gollapudi@india.semanticbits.com
Lalit Agarwal	yes	lalit.agarwal@semanticbits.com

Notes

Scrum

Denis

- Amazon properties filled out in config doc
- Updated CI config
- Code reviews
- Going to do virtual box settings

Gopal

- LABEL-33 finished
- LABEL-34 started
- LABEL-35 next

Janakiram

- LABEL-25 done with UI
 - Code to display results
 - Unit test cases there
 - Geb test cases coming
 - LABEL-26 covered
- Tomorrow will be LABEL-26 - need some discussion

Lalit

- LABEL-31
 - Have a few questions on this
 - Not focusing on pagination
 - Dependent on service - it is merged

Retrospective

What didn't work well today?

- Release schedule was too aggressive
- Scrum was too late
- Dependency caused problems

What worked well today?

- Code review process

Planning

Scrum at 3:00

Merge and deploy by COB

Action Items

Task	Assignee	Due Date	Notes

S5 - Scrum, Retrospective, and Planning

Project name	Label
Prepared by	Patrick McConnell
Location	+1-312-757-3131 846863757 https://gotomeet.me/SemanticBits2
Start time	6/19 4:00 PM
End time	6/19 4:30 PM

Agenda

Topic	Lead Attendee
Scrum	Patrick McConnell
<ul style="list-style-type: none"> • What have you completed since last scrum? • What are you planning to complete before the next scrum? • Do you have any roadblocks? 	
Retrospective	Patrick McConnell
Planning	Patrick McConnell

Attendees

Individual	Attended	Contact
Patrick McConnell		patrick.mcconnell@semanticbits.com
Joshua Phillips		joshua.phillips@semanticbits.com
Denis Krylov		denis.krylov@semanticbits.com
Gopal Unnikrishnan		gopal.unnikrishnan@semanticbits.com
Janakiram Gollapudi		janakiram.gollapudi@india.semanticbits.com
Lalit Agarwal		lalit.agarwal@semanticbits.com

Notes

Scrum

Retrospective

Planning

Action Items

Task	Assignee	Due Date	Notes

S6 - Scrum, Retrospective, and Planning

Project name	Label
Prepared by	Patrick McConnell
Location	+1-312-757-3131 846863757 https://gotomeet.me/SemanticBits2
Start time	6/19 4:00 PM
End time	6/19 4:30 PM

Agenda

Topic	Lead Attendee
Scrum <ul style="list-style-type: none">• What have you completed since last scrum?• What are you planning to complete before the next scrum?• Do you have any roadblocks?	Patrick McConnell
Retrospective	Patrick McConnell
Planning	Patrick McConnell

Attendees

Individual	Attended	Contact
Patrick McConnell		patrick.mcconnell@semanticbits.com
Joshua Phillips		joshua.phillips@semanticbits.com
Denis Krylov		denis.krylov@semanticbits.com
Gopal Unnikrishnan		gopal.unnikrishnan@semanticbits.com
Janakiram Gollapudi		janakiram.gollapudi@india.semanticbits.com
Lalit Agarwal		lalit.agarwal@semanticbits.com

Notes

Scrum

Retrospective

Planning

Action Items

Task	Assignee	Due Date	Notes

S7 - Scrum, Retrospective, and Planning

Project name	Label
Prepared by	Patrick McConnell
Location	+1-312-757-3131 846863757 https://gotomeet.me/SemanticBits2
Start time	6/19 4:00 PM
End time	6/19 4:30 PM

Agenda

Topic	Lead Attendee
Scrum <ul style="list-style-type: none">• What have you completed since last scrum?• What are you planning to complete before the next scrum?• Do you have any roadblocks?	Patrick McConnell
Retrospective	Patrick McConnell
Planning	Patrick McConnell

Attendees

Individual	Attended	Contact
Patrick McConnell		patrick.mcconnell@semanticbits.com
Joshua Phillips		joshua.phillips@semanticbits.com
Denis Krylov		denis.krylov@semanticbits.com
Gopal Unnikrishnan		gopal.unnikrishnan@semanticbits.com
Janakiram Gollapudi		janakiram.gollapudi@india.semanticbits.com
Lalit Agarwal		lalit.agarwal@semanticbits.com

Notes

Scrum

Retrospective

Planning

Action Items

Task	Assignee	Due Date	Notes

Mockups

S2 - Mockups

Desktop - Results

The screenshot shows a web application interface for searching labels. At the top left is the logo 'Label & Barcode EXCERPT LOCATOR' with a magnifying glass icon. At the top right are links for 'About', 'Contact', and 'Help'. Below the header is a search bar with the placeholder 'Carcinogen' and a blue 'Search' button. To the right of the search bar is a question mark icon. Below the search bar is a link 'Upload Barcode Image to Search'. Underneath the search area, the text 'Showing 1 ~ 10 of 253 labels' is displayed, followed by a page navigation bar with numbers 1 through 9 and arrows. The main content area contains three sections, each with a bold title and a paragraph of placeholder text. The first section is 'Metronidazole', the second is 'Etoposide', and the third is 'Glucopyranoside'. Each section's text is identical: 'Lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse sed varius massa, ut scelerisque tellus. Fusce a purus id nisi rutrum pulvinar. Vivamus consectetur, turpis sed posuere commodo, eros odio auctor nunc, rutrum tincidunt mauris lectus sit amet erat. Ut id sodales urna. Nunc congue arcu justo. Maecenas rhoncus, orci id convallis condimentum, risus justo vehicula est, eget condimentum nisl urna vitae ligula. Aliquam pretium efficitur lacus vel faucibus.'.

S3 - Mockups

Desktop

 Enter search terms to search anywhere in drug labels Search ?[Upload Barcode Image to Search](#)[About](#) | [Contact](#) | [Help](#)

Home

Results

About | Contact | Help

Carcinogen Search ?

[Upload Barcode Image to Search](#)

Showing 1 - 10 of 253 labels

« < 1 2 3 4 5 6 7 8 9 10 > »

Metronidazole

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse sed varius massa, ut scelerisque tellus. Fusce a purus id nisi rutrum pulvinar. Vivamus consectetur, turpis sed posuere commodo, eros odio auctor nunc, rutrum tincidunt mauris lectus sit amet erat. Ut id sodales urna. Nunc congue arcu justo. Maecenas rhoncus, orci id convallis condimentum, risus justo vehicula est, eget condimentum nisl urna vitae ligula. Aliquam pretium efficitur lacus vel faucibus.

Etoposide

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse sed varius massa, ut scelerisque tellus. Fusce a purus id nisi rutrum pulvinar. Vivamus consectetur, turpis sed posuere commodo, eros odio auctor nunc, rutrum tincidunt mauris lectus sit amet erat. Ut id sodales urna. Nunc congue arcu justo. Maecenas rhoncus, orci id convallis condimentum, risus justo vehicula est, eget condimentum nisl urna vitae ligula. Aliquam pretium efficitur lacus vel faucibus.

Glucopyranoside

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse sed varius massa, ut scelerisque tellus. Fusce a purus id nisi rutrum pulvinar. Vivamus consectetur, turpis sed posuere commodo, eros odio auctor nunc, rutrum tincidunt mauris lectus sit amet erat. Ut id sodales urna. Nunc congue arcu justo. Maecenas rhoncus, orci id convallis condimentum, risus justo vehicula est, eget condimentum nisl urna vitae ligula. Aliquam pretium efficitur lacus vel faucibus.

Label

[Back to your search](#)

Metronidazole

Abuse and overdosage

Adverse effects and interactions

Clinical pharmacology

Indications, usage and dosage

Patient information

Special populations

Nonclinical toxicology

References

Supply, storage and handling

Warnings and precautions

ID and version

Other fields

openFDA fields

ABUSE AND OVERDOSAGE

Overdose Lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse sed varius massa, ut scelerisque tellus. Fusce a purus id nisi rutrum pulvinar. Vivamus consectetur, turpis sed posuere commodo, eros odio auctor nunc, rutrum tincidunt mauris.

ID AND VERSION

Set Id 987652-21w1333-220-p00098-23w0865531

Id 22311093-3376y6-338207-1119922m-s877

Version 3

Effective time 7/12/2015

Mobile

Home



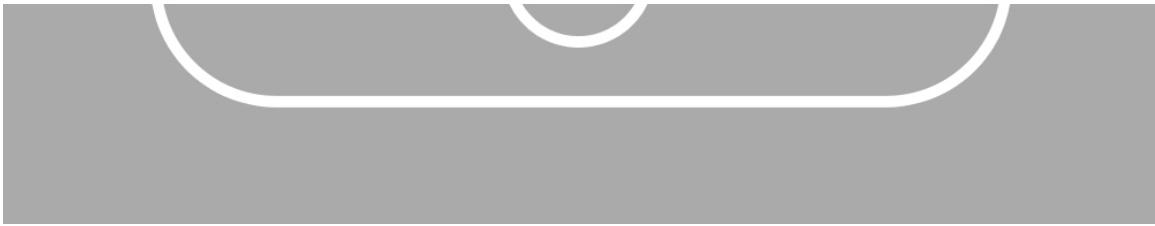
 Enter terms to search labels

Search



[Upload Barcode Image to Search](#)

[About](#) | [Contact](#) | [Help](#)



Results

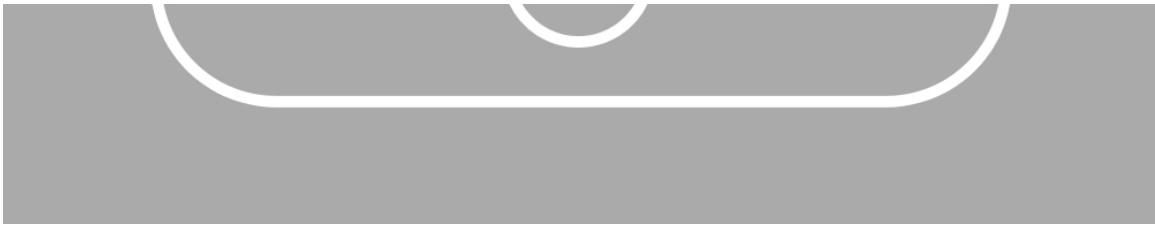
 🔍 CarcinogenSearch[Upload Barcode Image to Search](#)

Showing 1 – 10 of 253 labels

Metronidazole

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse sed varius massa, ut scelerisque tellus. Fusce a purus id nisi rutrum pulvinar. Vivamus consectetur, turpis sed posuere commodo, eros odio auctor nunc, rutrum tincidunt mauris lectus sit amet erat. Ut id sodales urna. Nunc congue arcu justo. Maecenas rhoncus, orci id convallis condimentum, risus justo vehicula est, eget condimentum nisl urna

« < 1 2 3 4 ... 7 8 9 10 > »



Label



[Back to your search](#)

Metronidazole

Abuse and overdosage

ABUSE AND OVERDOSAGE

Overdose

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse sed varius massa, ut scelerisque tellus. Fusce a purus id nisi rutrum pulvinar. Vivamus consectetur, turpis sed posuere commodo, eros odio auctor nunc, rutrum tincidunt mauris.

ID AND VERSION

Set Id

987652-21w1333-220-p00098-23w0865531

Id

22311093-3376v6-338207-1119922m-c877



S4 - Mockups

Desktop

Home



Enter search terms to search anywhere in drug labels Search ?

— OR —

[Upload Barcode Image to Search](#)

[About](#) | [Contact](#) | [Help](#)

Results



About | Contact | Help

Search



Showing 1 - 10 of 253 labels

<< < 1 2 3 4 5 6 7 8 9 10 > >>

Metronidazole

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Etoposide

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Glucopyranoside

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse sed varius massa, ut scelerisque tellus. Fusce a purus id nisi rutrum pulvinar. Vivamus consectetur, turpis sed posuere commodo, eros odio auctor nunc, rutrum tincidunt mauris lectus sit amet erat. Ut id sodales urna. Nunc congue arcu justo. Maecenas rhoncus, orci id convallis condimentum, risus justo vehicula est, eget condimentum nisl urna vitae ligula. Aliquam pretium efficitur lacus vel faucibus.

Label



About | Contact | Help

[Back to your search](#)

Metronidazole

Abuse and overdosage

Adverse effects and interactions

Clinical pharmacology

Indications, usage and dosage

Patient information

Special populations

Nonclinical toxicology

References

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Warnings and precautions

ID and version

Other fields

openFDA fields

ABUSE AND OVERDOSAGE

Overdose Lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse sed varius massa, ut scelerisque tellus. Fusce a purus id nisi rutrum pulvinar. Vivamus consectetur, turpis sed posuere commodo, eros odio auctor nunc, rutrum tincidunt mauris.

ID AND VERSION

Set Id 987652-21w1333-220-p00098-23w0865531

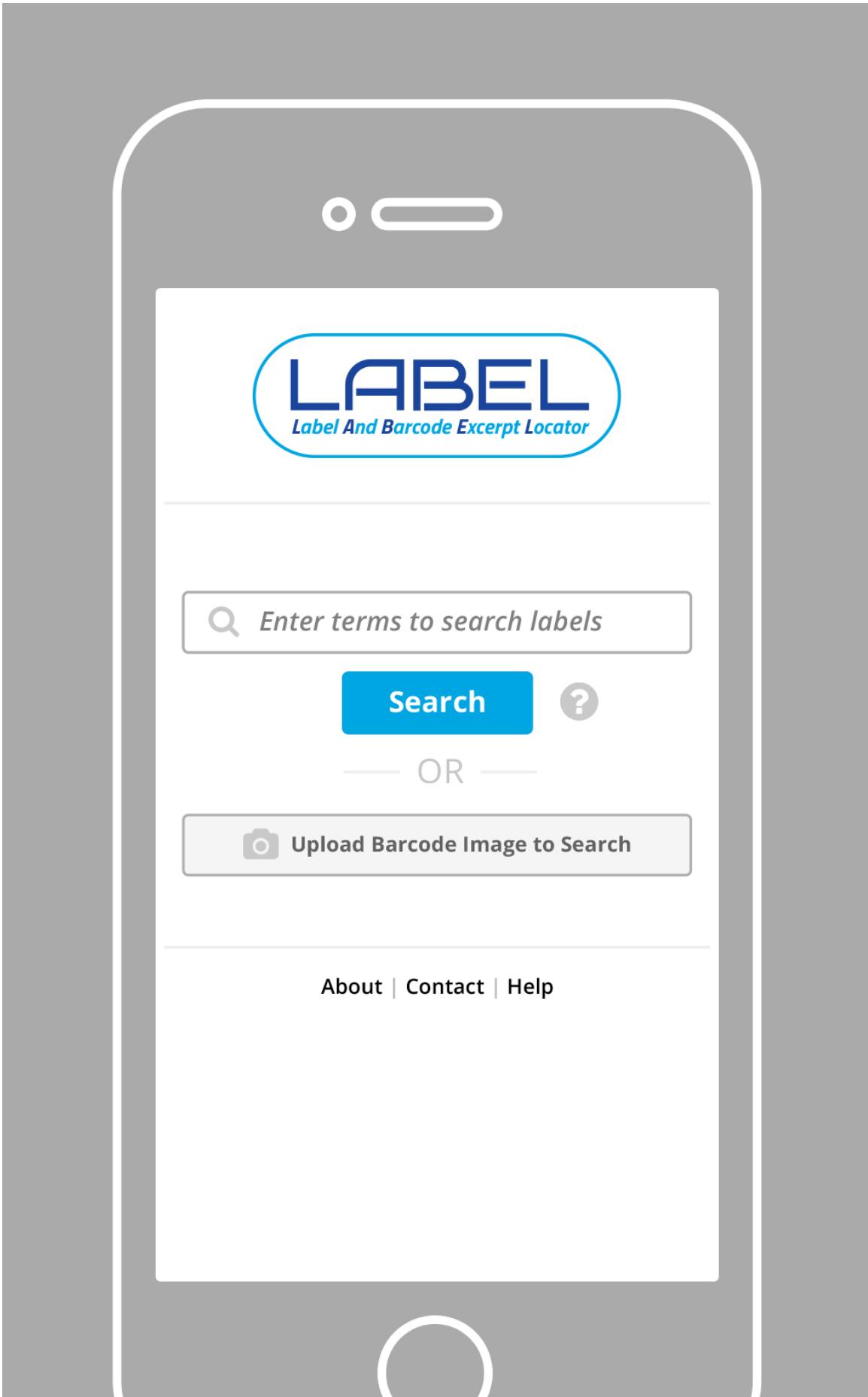
Id 22311093-3376y6-338207-1119922m-s877

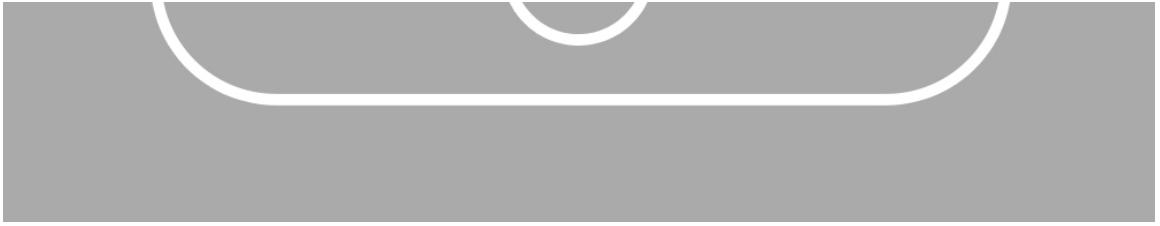
Version 3

Effective time 7/12/2015

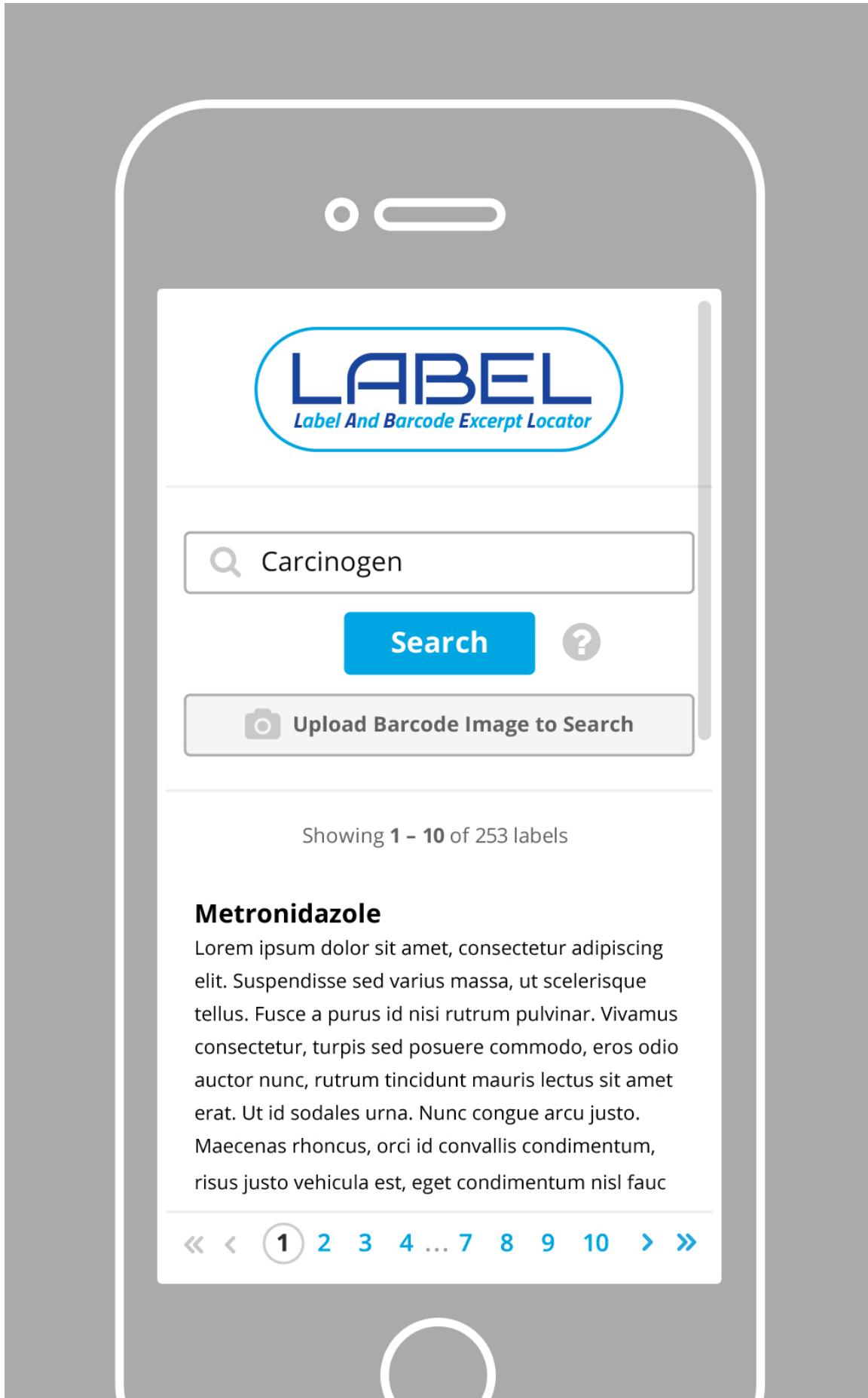
Mobile

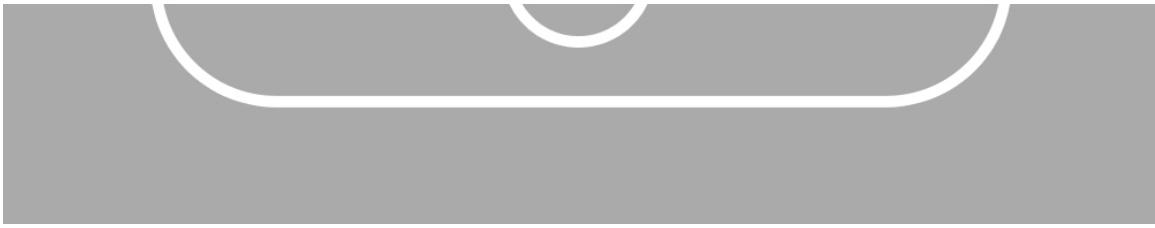
Home





Results





Label



[<< Back to your search](#)

Metronidazole

Abuse and overdosage



ABUSE AND OVERDOSAGE

Overdose

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse sed varius massa, ut scelerisque tellus. Fusce a purus id nisi rutrum pulvinar. Vivamus consectetur, turpis sed posuere commodo, eros odio auctor nunc, rutrum tincidunt mauris.

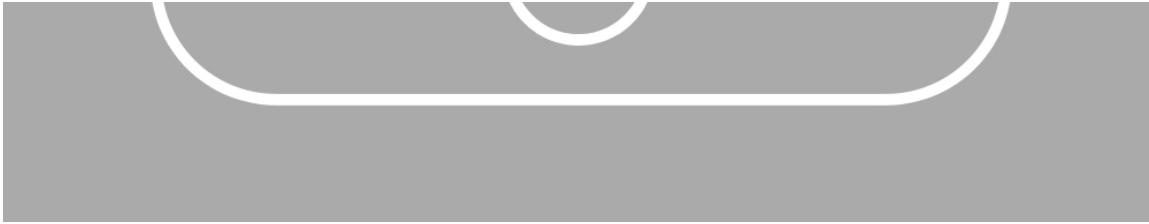
ID AND VERSION

Set Id

987652-21w1333-220-p00098-23w0865531

Id

00011000 0076 6 000007 1110000 111 077



Schedule

Schedule v1

The project will take one week to complete. Each day will be an individual sprint:

- Inception
 - Thursday (Sprint 1) - brainstorming
- Elaboration
 - Friday (Sprint 2) - wireframing
 - Monday (Sprint 3) - wireframing
- Construction
 - Tuesday (Sprint 4) - release 1 (beta) - mockups/prototype
 - Wednesday (Sprint 5) - prototype
 - Thursday (Sprint 6) - release 2 (production) - implementation
- Transition
 - Friday (Sprint 7)

Schedule v2

The project will take one week to complete. Each day will be an individual sprint:

- Inception
 - Thursday (Sprint 1)
- Elaboration
 - Friday (Sprint 2)
 - Monday (Sprint 3)
- Construction
 - Tuesday (Sprint 4)
 - Wednesday (Sprint 5)
 - Thursday - beta release
 - Friday (Sprint 6)
 - Monday
 - Tuesday - prod release
- Transition
 - Wednesday (Sprint 7)

Team

Because of limited time and resources, a number of team members will be playing dual roles.

Role	GSA Agile Labor Category	Resource
Product Owner		Joshua Phillips
Product Manager	Product Manager	Patrick McConnell
Architect	Technical Architect	Joshua Phillips
Usability Tester	Interaction Designer / User Researcher / Usability Tester	Ben Traynham
Technical Writer	Writer / Content Designer / Content Strategist	Patrick McConnell
UI Designer	Visual Designer	Ben Traynham

Technical Lead		Denis Krylov
Frontend Engineer	Frontend Web Developer	Janakiram Gollapudi Lalit Agarwal
Backend Engineer	Backend Web Developer	Gopal Unnikrishnan
DevOps Engineer	DevOps Engineer	Denis Krylov
Project Manager	Delivery Manager	Patrick McConnell
	Agile Coach	
Business Analyst	Business Analyst	Patrick McConnell
	Digital Performance Analyst	
User/Stakeholder		Vasudev Chatti

In order to really understand what people need, we have included "users" from the beginning of the project. These are:

- Paul Baumgartner, senior project manager in "real life"
- Vasudev Chatti, project manager in "real life"
- Ramakrishna Gundala, senior software engineer in "real life"

UI Style Guide

- [UI Style Guide](#)
- Usage of punctuation marks
- [Guidelines for UI text](#)
 - [Error message guidelines](#)
 - Best Practices
 - Style Considerations
 - [Capitalization and Punctuation](#)

UI Style Guide

View User - SSTS

<http://ssts.com/users/view/1234>

All pages use REST-like URLs rather than parameters
Page titles are title-space-hyphen-space-application

Error validation form. Please correct issues in the following fields:

- Zip code: Invalid zip code. It should be in the format ##### or #####-####.
- Telephone: Invalid telephone. It should be in the format (###) ###-####.

Server-side messages should have icons, be colored, be comprehensive.

✓ Successfully created sample "Human papilloma pool".

Most server actions, such as create, update, delete, should have a confirmation message.
Auto-hide success messages 5 seconds after page is fully loaded.

Title	<input type="text"/>	No colon in field name
First name	<input type="text"/>	Required fields should be outlined in red.
Last name	<input type="text" value="McConnell"/>	Outline must change to green when filled in.
Degree	<input type="text"/>	Non-required fields are always black.
Subject area	<input type="text"/>	Fields that have focus should get a blue outline.
City	<input type="text"/>	Field names should be horizontally right-aligned with each other.
State	<input type="text"/>	Field names must be vertically centered with the field.
Country	<input type="text"/>	Fields should always be equally spaced with each other
Date	<input type="text" value="7/16/2014"/>	Date format is always M/d/yyyy.
Time	<input type="text" value="8:06 PM EDT"/>	Time format is always h:mim a z
User	<input type="text" value="Start typing to find a User"/>	Autocompleteers always have prompt text
Role	<input type="text" value="-Select-"/>	Drop-down menus always have prompt text of hyphen-Select-hyphen with no spaces Drop-down menus are always alphabetically sorted, with -Select- first.
Sex	<input type="radio"/> Male <input type="radio"/> Female	Option fields should be stacked vertically. The label should align with the top of the options.
Status	<input type="text" value="Disabled"/>	Prefer drop-down over a checkbox for binary options.
Age	<input type="text"/> <input type="checkbox"/> Not provided	Check boxes always have text to the right of them.
Color	Click to edit	In-line editors indicated by pencil icon and tooltip.
Comment	<input type="text"/>	Field names top-aligned with text areas. Text areas prefer 3 text rows, auto-scroll.

Panel: prostate cancer When a colon is required, there is never a space before it and always a space after it.

Zip code Validation errors are displayed below the field in question, closer to the field with an issue than the next field.
Invalid zip code. It should be in the format ##### or #####-####.

Telephone Highlight fields failing validation with a red outline. Include the name of the field but in a sentence-like style.
Invalid telephone. It should be in the format (###) ###-####.

Save Cancel Delete Apply

Action buttons should be side-by-side and aligned with the input fields
All buttons should have an icon
No buttons are colored

Usage of punctuation marks

Mark	Usage
Period (.)	<ul style="list-style-type: none">• Periods end sentences.<ul style="list-style-type: none">• Example: Please enter a valid accession number.• A period always comes before a closing quotation mark.<ul style="list-style-type: none">• Incorrect: George said, "I don't get it".• Correct: George said, "I don't get it."• If a complete sentence is in parentheses, the period should be inside the closing parenthesis.
Quotation ("")	<ul style="list-style-type: none">• Always use double quotes, never single• Only use single quotes when quoting a quote, i.e. almost never in any messages we provide to users• Use double quotes around technical terms, e.g. Contact admin@sb.com to find out more about the "CrazyAmazingException" in the log files.
Question mark (?)	<ul style="list-style-type: none">• Question marks end all direct questions. This includes incomplete questions and statements intended as questions.<ul style="list-style-type: none">• Example: What is your name?• Example: Are you sure you want to delete?• Note: There should be no space between the end of a sentence and the question mark.
Colon (:)	<ul style="list-style-type: none">• Note: There should be no space between the end of a word and a colon. And, there should be a space between the colon and the next word/sentence<ul style="list-style-type: none">• Incorrect: Disease : Ovarian Epithelial Cancer• Correct: Disease: Ovarian Epithelial Cancer
Comma (,)	<ul style="list-style-type: none">• In a series of three or more controls, separate the controls with commas.• There should be no space before a comma.• There should be a space after a comma and a word.<ul style="list-style-type: none">• Example: This patient has been diagnosed with Skin cancer, Bone cancer.• We should be formatting text like this for variable lists:<ul style="list-style-type: none">• A• A and B• A, B, and C• ...• Do not place a comma between the month and year when the day is not mentioned.
Ellipsis (...)	<ul style="list-style-type: none">• Ellipses should be used when there are space constraints.• Use an ellipsis at the end of a menu command and at the end of a button command that opens another dialog box instead of performing an action.• Use an ellipsis in a progress bar label to indicate a continuing action.• When material is deleted at the end of one paragraph and at the beginning of the one that follows, place an ellipsis in both locations.

Apostrophes (single closing quote)	<ul style="list-style-type: none"> • Use only an apostrophe when making possessive a singular proper name ending in s. • Examples: Dickens' novels, Owens' office • Do not use an apostrophe when making figures and letters plural. • Example: the 1970s, two CPUs
Dashes	<ul style="list-style-type: none"> • Use a dash with no extra space before or after to indicate continuing (or inclusive) numbers, dates, times, or reference numbers. <ul style="list-style-type: none"> • Example: 2000–05, but when written in text material, "from 2000 to 2005" • Example: May–June 2000, but when written in text material, "from May to June 2000" • Example: 8:30 a.m.–2:30 p.m., but when written in text material, "between 8:30 a.m. and 2:30 p.m." • Example: pp. 1–100, but when written in text material, "from pages 1 to 100"

Guidelines for UI text

When writing UI text for web and mobile applications, use the guidelines in the following checklist:

- Ask business analyst to review all UI text.
- Use clear terminology.
- Avoid technical jargon and colloquialisms.
- Use as few words as possible without losing the meaning.
- Use one term consistently for all concepts that have the same meaning.
- Avoid negative and politically sensitive terms.
- When writing instructional text, present the result before the required action. For example, "To begin importing specimens, click Next."
- Make sure UI command labels match labels for the UI they open.
- Write informative error messages.

Error message guidelines

An error message is text that is displayed to describe a problem that has occurred that is preventing the user or the system from completing a task. The problem could result in data corruption or loss. Other message types include confirmations, warnings, and notifications. The guidelines in this topic are intended to help you write clear error messages.

Poorly written error messages can be a source of frustration for users. A well-written error message provides the following information to the user:

- What happened and why?
- What is the end result for the user?
- What can the user do to prevent it from happening again?

The length of the text is not an issue as long as it is handled correctly. It is important that the user have all the information necessary to solve the problem. If a message has multiple audiences, you may need to provide separate text for administrators, end users, and developers.

Best Practices

The following are ways to improve your error messages:

- Avoid error conditions. If you can predict that an error will occur when a user performs a specific action, rewrite your code so that the user cannot cause the error.
- Write a separate error message for each known cause of the error. Do not use a single, generic message to explain every possible reason for the error unless you cannot determine the cause of the error when it occurs.
- State the problem clearly and, if it will be helpful to the user, explain what caused the problem. Whenever possible, replace the generic messages from the system message-table resources with a detailed message that is specific to the problem.
- Provide the user with a solution to the problem. If the solution has more than one step, refer to a help topic that explains the task in detail.
- Display only the product, component, or wizard name in the title bar of the message. This helps the user determine where the problem is. Do not summarize the problem in the title bar or include the word "error".
- Do not use technical jargon, use terminology that your audience understands. Do not use slang or abbreviations.

- Use the appropriate command buttons, such as OK, Cancel, Yes, No, and Retry. You can use combinations of these buttons. The Yes and No buttons must always be used in combination and must always be preceded by a question.
 - To stop an operation and close the message box, use the Cancel button.
 - To close a message box, use the Close button.
 - To provide more information about the cause of the error, use the Details button.
 - To provide more information about the solution to the problem, use the Help button.
 - If a user action is included in the message, use the OK button to close the message box.
 - Yes and No buttons must be used in combination and must always be preceded by a question.
- If the error is a critical error, write it to the log.

Style Considerations

- Use complete but simple sentences.
- Use the present tense to describe the conditions that caused the problem or a state that still exists. You can use past tense to describe a distinct event that occurred in the past.
- Avoid uppercase text and exclamation points.
- Do not make the user feel at fault even if the problem is the result of a user error.
- Do not anthropomorphize. Do not imply that programs or hardware can think or feel.
- Do not use colloquial words or phrases. Do not use terms that may be offensive in certain cultures.
- Do not compound several nouns without adding a preposition or subclause to clarify the meaning. For example, "Site Server LDAP Service directory server" should be changed to "Directory server for the LDAP Service of the Site Server".
- Insert descriptors before a term to clarify the meaning of the sentence. For example, "Specify InfID when Detect is set to No." should be changed to "Specify the InfID parameter when the Detect option is set to No".
- Avoid the word "bad". Use more descriptive terms to tell the user what is wrong. For example, avoid messages such as "Bad size". Instead, tell the user what criteria to use when specifying a size.
- Avoid the word "please". It can be interpreted to mean that a required action is optional.
- Place words that are both in the index and relevant to the central meaning at the beginning of the message string.
- Plurals for words should be correctly used. Please get statements reviewed with an editor before publishing them.
 - Example: Report is exported
 - Plural: Reports are exported

Content and Presentation

Use messages to report those conditions that require special consideration or affect the user's ability to complete the action.

- Avoid combining more than two or three issues in a single message. For example, if a file cannot be opened for several reasons, provide a separate message for each reason.
- Put the program name in the title bar of the message box to identify the source of the message. Do not use the words warning, caution, or error in a message-box title bar.
- State the problem, its probable cause (if known), and what the user can do about it, no matter how obvious the solution. Try to include enough information so that an advanced user or technical support person can quickly diagnose and solve the problem.
 - Correct: There is not enough disk space to save this file. Free additional space on this disk, or save the file to a different disk.
 - Incorrect: Insufficient disk space
- Provide only as much background information as is necessary for the user to understand the message.
- Avoid multi-step solutions. After a message closes, users have difficulty remembering more than two or three simple steps.
- Present solution steps in the order in which they should be completed.
 - Correct: Delete the shipment and then delete the specimen.
 - Incorrect: Delete the specimen after you delete a shipment.
- Replace general system-supplied messages, with your own specific messages where possible.
- Use generic confirmation messages, such as "Do you want to continue...," judiciously. A more useful alternative is to describe the result of this choice.

Terminology

The terminology used in messages should be consistent with the rest of the application.

- Avoid contractions in technical messages. They can slow down comprehension.
- Avoid technical terms and system-oriented information, unless you are certain that your users understand them.

- Avoid "please" except in situations where the user is asked to do something inconvenient or the software is to blame for the situation—for example, "Please wait while the system copies the files to your computer."
- Avoid the word error, which the user could misinterpret to mean user error.
- Avoid phrasing that blames the user or implies user error. Passive voice can be appropriate in messages to achieve this purpose.
 - Correct: The password is incorrect. Please type the correct password.
 - Incorrect: You typed an incorrect password.
- Do not use database style field names in error messages. For example, Status of the shipment cannot be changed from NOT_SHIPPED to READY_FOR_SHIPMENT (this is incorrect)

Capitalization and Punctuation

Use standard capitalization and punctuation in messages.

- Use complete sentences with ending punctuation. For example, say "System cannot find a case with given accession number." instead of "Cannot find the case."
- In the message, use sentence caps.
- In the message title bar, use title caps.

Users

In order to really understand what people need, we have included "users" from the beginning of the project. These are:

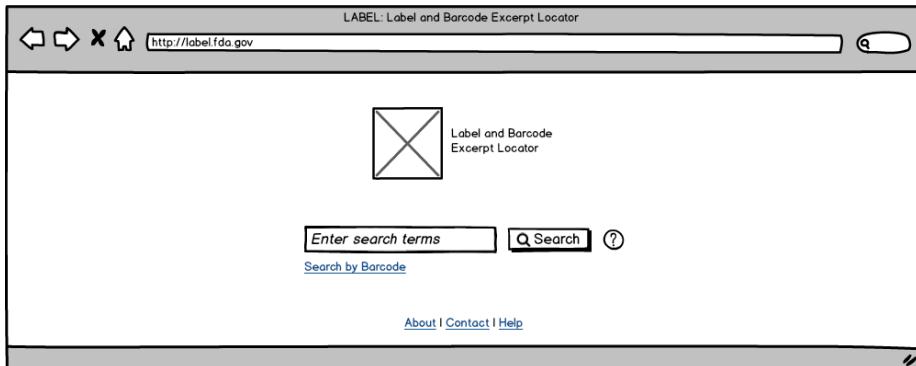
- Paul Baumgartner, senior project manager in "real life"
- Vasudev Chatti, project manager in "real life"
- Ramakrishna Gundala, senior software engineer in "real life"

Wireframes

S2 - Wireframes

Desktop

Home



Results

LABEL: Label and Barcode Excerpt Locator

<http://label.fda.gov/search?term=carcinogen>

Label and Barcode Excerpt Locator

Carcinogen

Search by Barcode

253 labels found

METRONIDAZOLE

Metronidazole vaginal gel USP, 0.75% is the intravaginal dosage form of the synthetic antibacterial agent, metronidazole, USP at a concentration of 0.75%. Metronidazole is a member of the imidazole class of antibacterial agents and is classified therapeutically as an antiprotozoal and antibacterial agent. Chemically, metronidazole is a 2-methyl-5-nitroimidazole-1-ethanol. It has a chemical formula of C6H9N3O3, a molecular weight of 171.16, and has the following

ETOPOSIDE

Etoposide Injection USP (also commonly known as VP-16) is a semisynthetic derivative of podophyllotoxin used in the treatment of certain neoplastic diseases. It is 4'-demethyllepidopodophyllotoxin 9-[4,6-O-(R)-ethylidene-β-D-glucopyranoside]. It is very soluble in methanol and chloroform, slightly soluble in ethanol and sparingly soluble in water and ether. It is made more miscible with water by means of organic solvents. It has a molecular weight of 588.58 and a molecular

<< < 1 2 3 4 5 6 7 8 9 10 > >>

About | Contact | Help

Title is generic_name, brand_name, substance_name, or id - whichever exists in that order

Description is description, display 3 lines

Display 10 results per page, paginated

Label

METRONIDAZOLE - LABEL: Label and Barcode Excerpt Locator

<http://label.fda.gov/search/5d5728bc-0a01-4bbd-886b-b5729e6b1898/?term=carcinogen&page=0>

Label and Barcode Excerpt Locator

METRONIDAZOLE [<< back to search](#)

ID and version

Set Id 0030514f-879d-416d-b422-24b67e334b36
Id 5d5728bc-0a01-4bbd-886b-b5729e6b1898
Version 3
Effective time 7/12/2011

Abuse and overdosage

Overdose There is no human experience with overdosage of metronidazole vaginal gel. Vaginally applied metronidazole gel, 0.75% could be absorbed in sufficient amounts to produce systemic effects. (See WARNINGS.)

ID and version

[Abuse and overdosage](#)
[Adverse effects and interactions](#)
[Clinical pharmacology](#)
[Indications, usage, and dosage](#)
[Patient information](#)
[Special populations](#)
[Nonclinical toxicology](#)
[References](#)
[Supply, storage, and handling](#)
[Warnings and precautions](#)
[Other fields](#)
[openFDA fields](#)

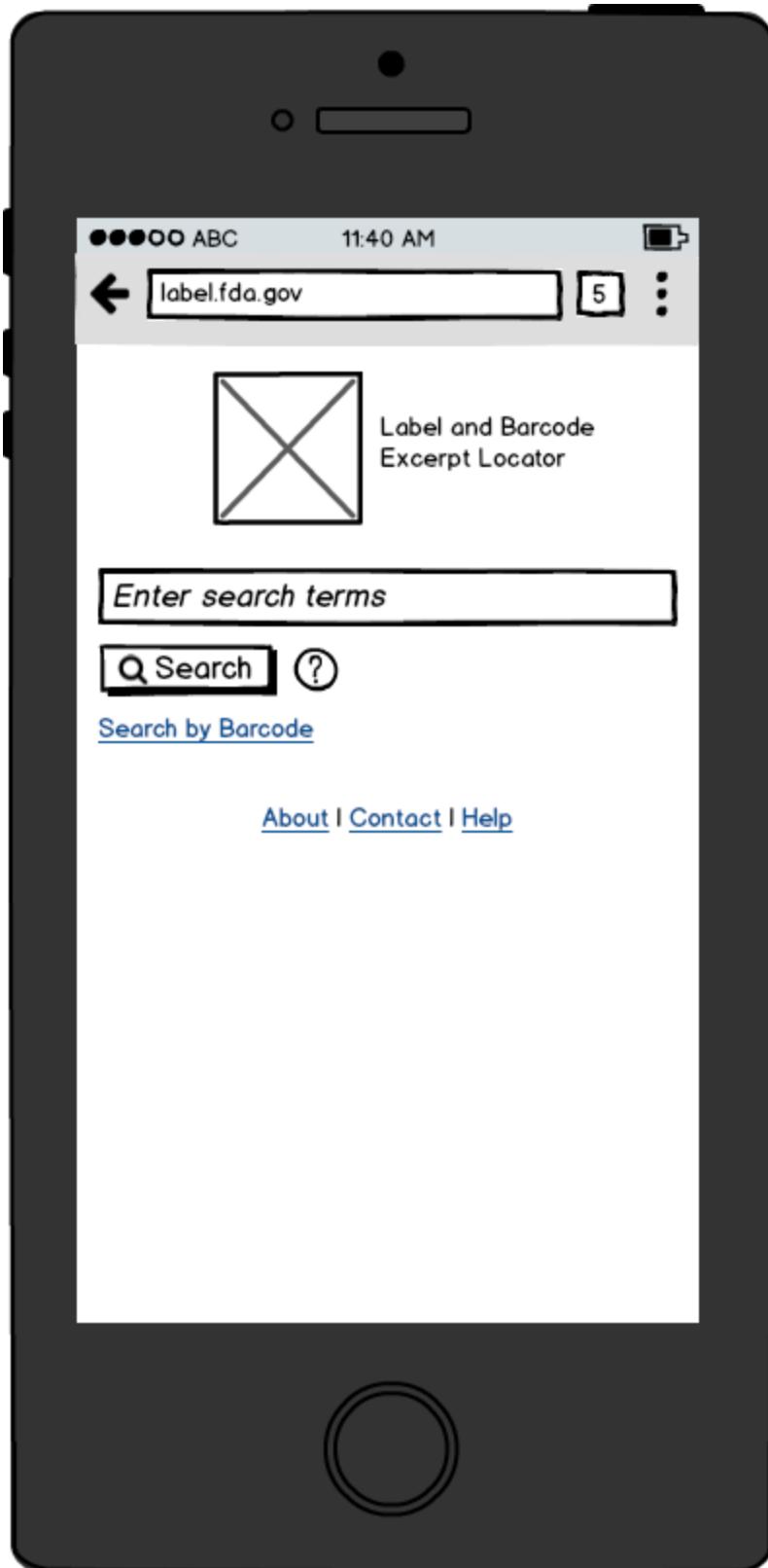
Table of contents floats on right and sticks to top of page when scrolling
Categories without any data do not appear

Organize data by category and label.
Skip categories and labels with no data.
All uncategorized (unexpected) labels

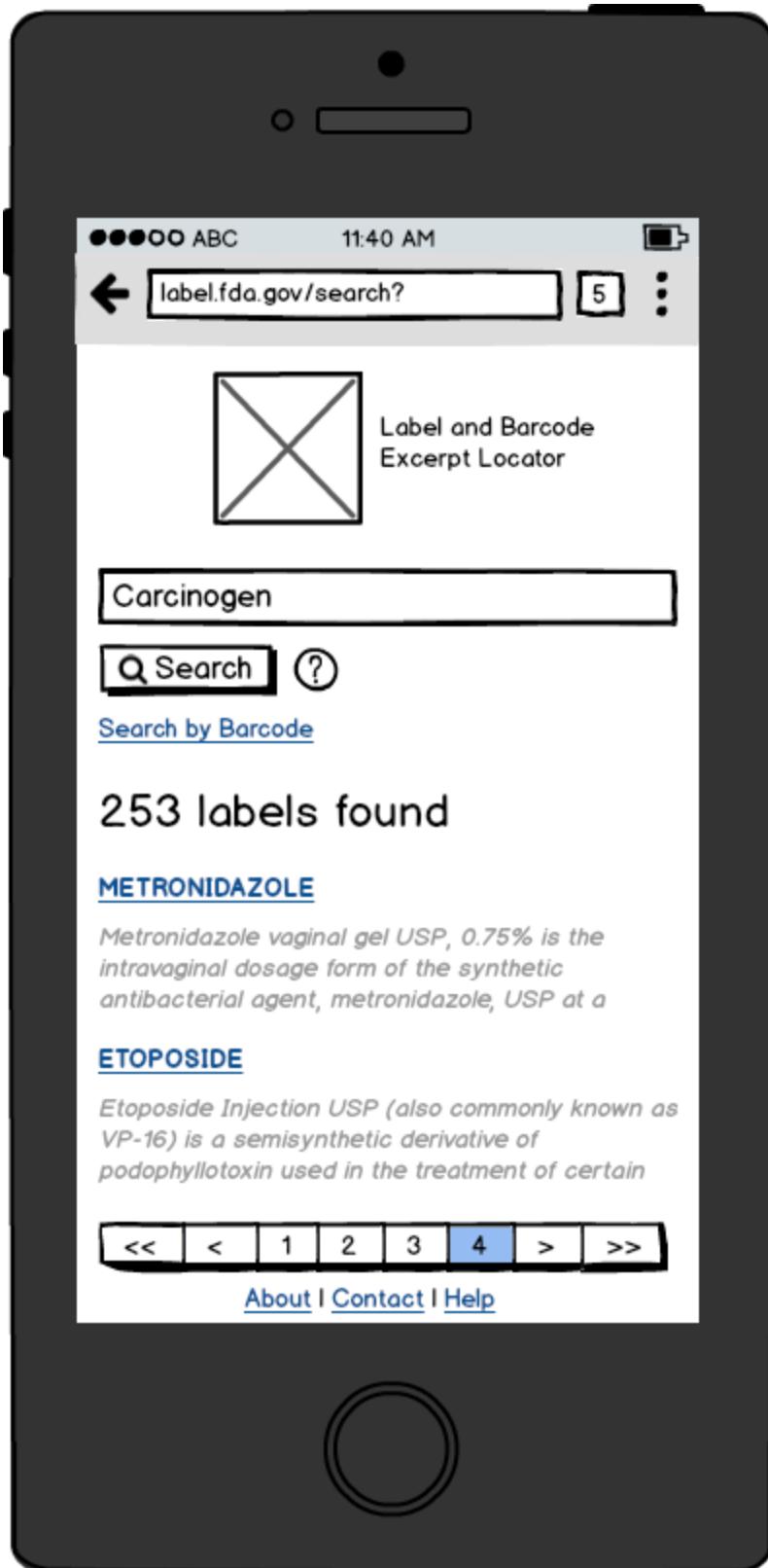
About | Contact | Help

Mobile

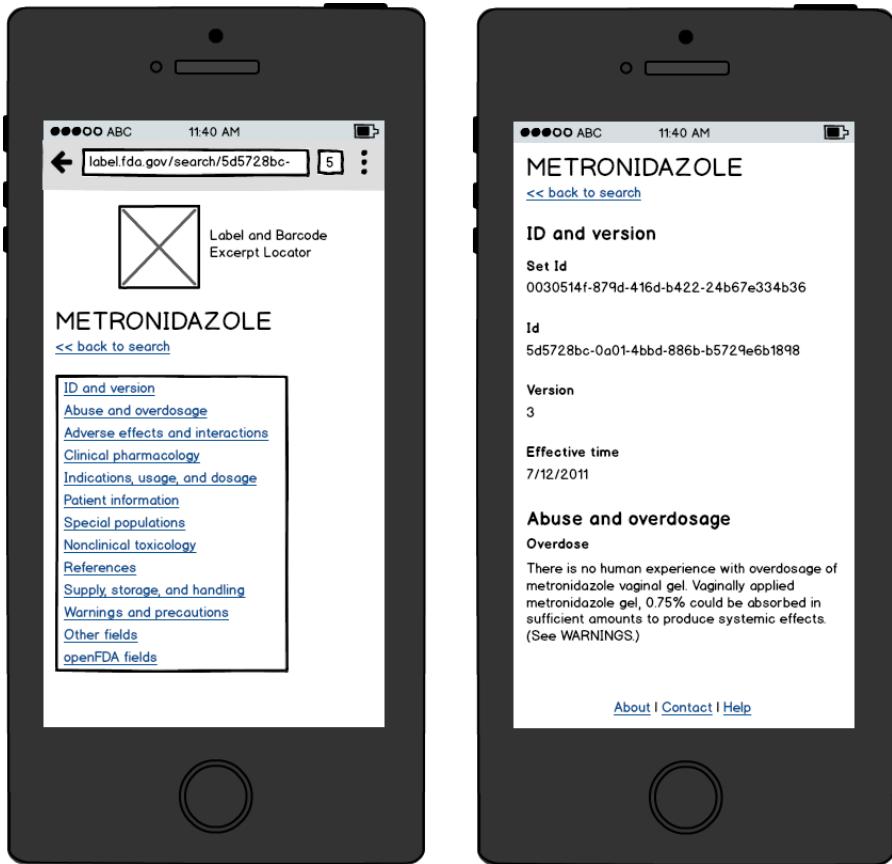
Home



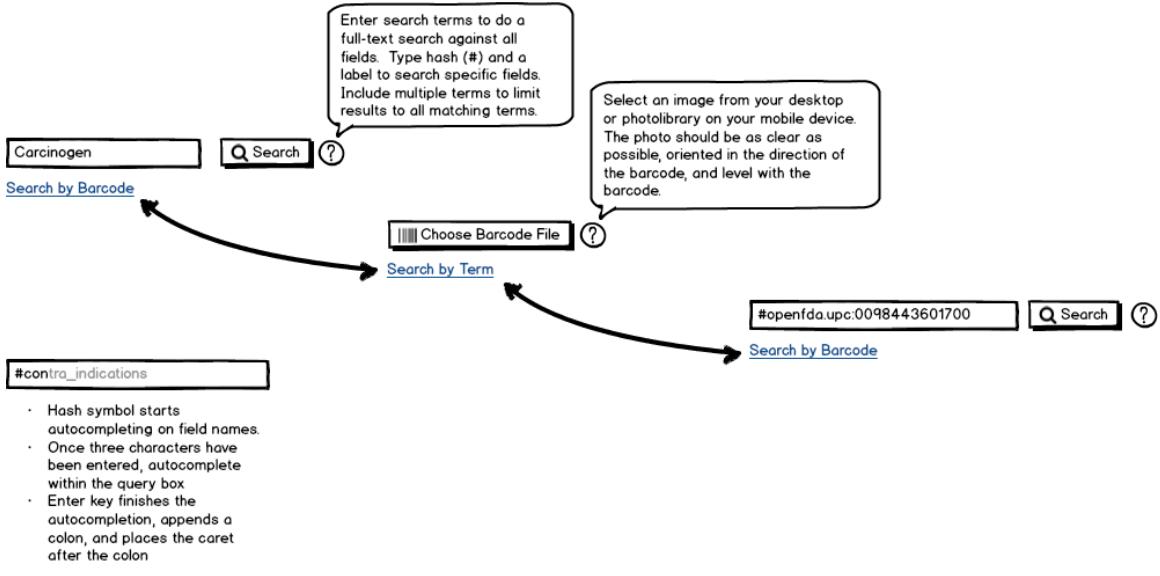
Results



Label



Query Control



S3 - Wireframes

Desktop

Home

LABEL: Label and Barcode Excerpt Locator

<http://label.fda.gov>



Label and Barcode
Excerpt Locator

[?](#)

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Normally would comply with
government
HTTPS-everywhere policy, but this
isn't going to production

[?](#)

[Search by Barcode](#)

Results

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<http://label.fda.gov/search?term=carcinogen>



Label and Barcode
Excerpt Locator

[?](#)

[Upload Barcode Image to Search](#)

253 labels found Displaying results 41-50

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[<<](#)

[About](#) | [Contact](#) | [Help](#)

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 Label and Barcode Excerpt Locator

METRONIDAZOLE [<< back to your search](#)

Abuse and overdosage

[Abuse effects and interactions](#)

[Clinical pharmacology](#)

[Indications, usage, and dosage](#)

[Patient information](#)

[Special populations](#)

[Nonclinical toxicology](#)

[References](#)

[Supply, storage, and handling](#)

[Warnings and precautions](#)

ID and version

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Set Id 0030514f-879d-416d-b422-24b67e334b36

Id 5d5728bc-0a01-4bbd-886b-b5729e6b1898

Version 3

Effective time 7/12/2011

[About](#) | [Contact](#) | [Help](#)

Table of contents floats on left and sticks to top of page when scrolling. Categories without any data do not appear.

Order categories below by the contents

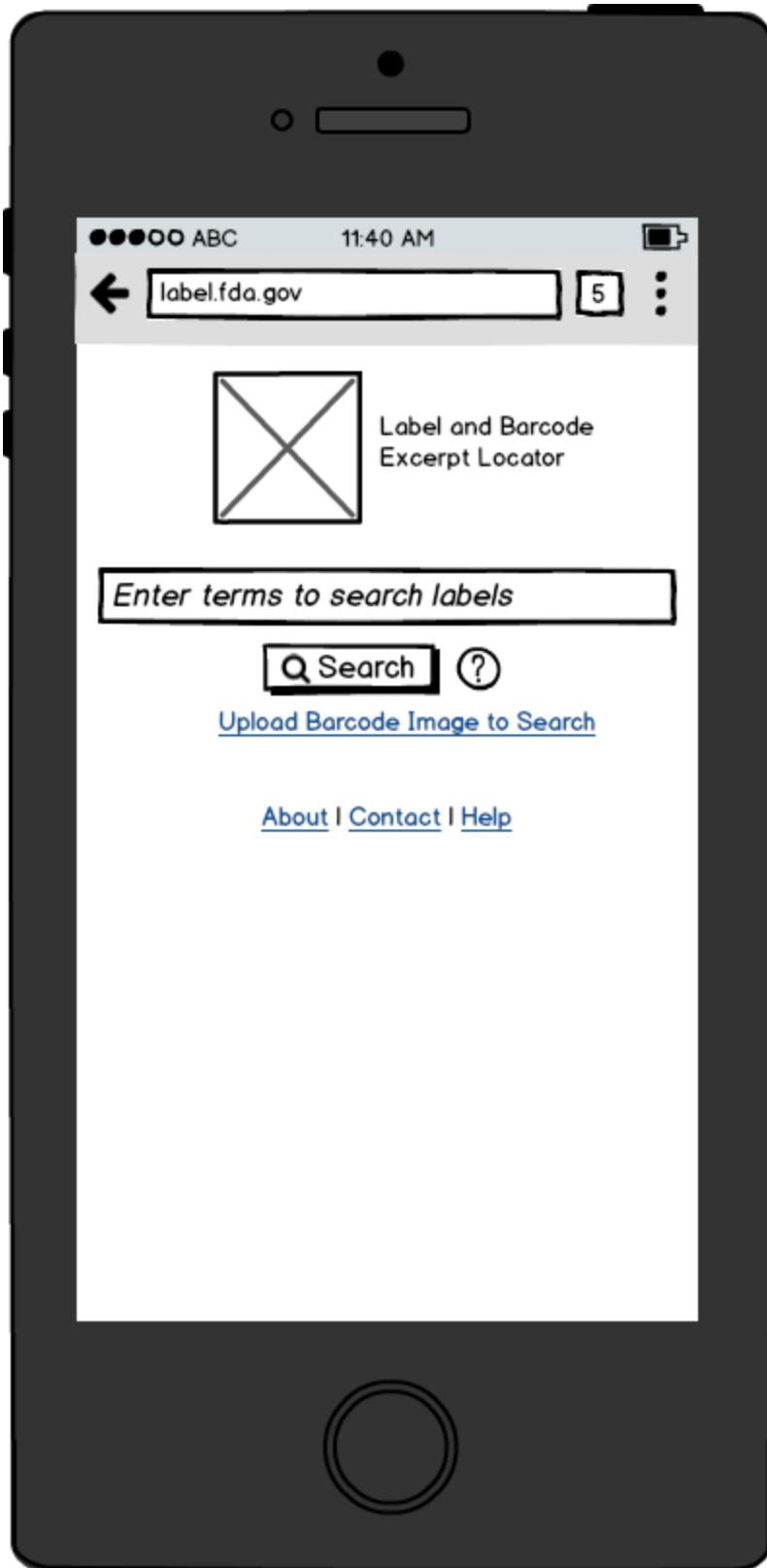
Organize data by category and label.

Skip categories and labels with no data.

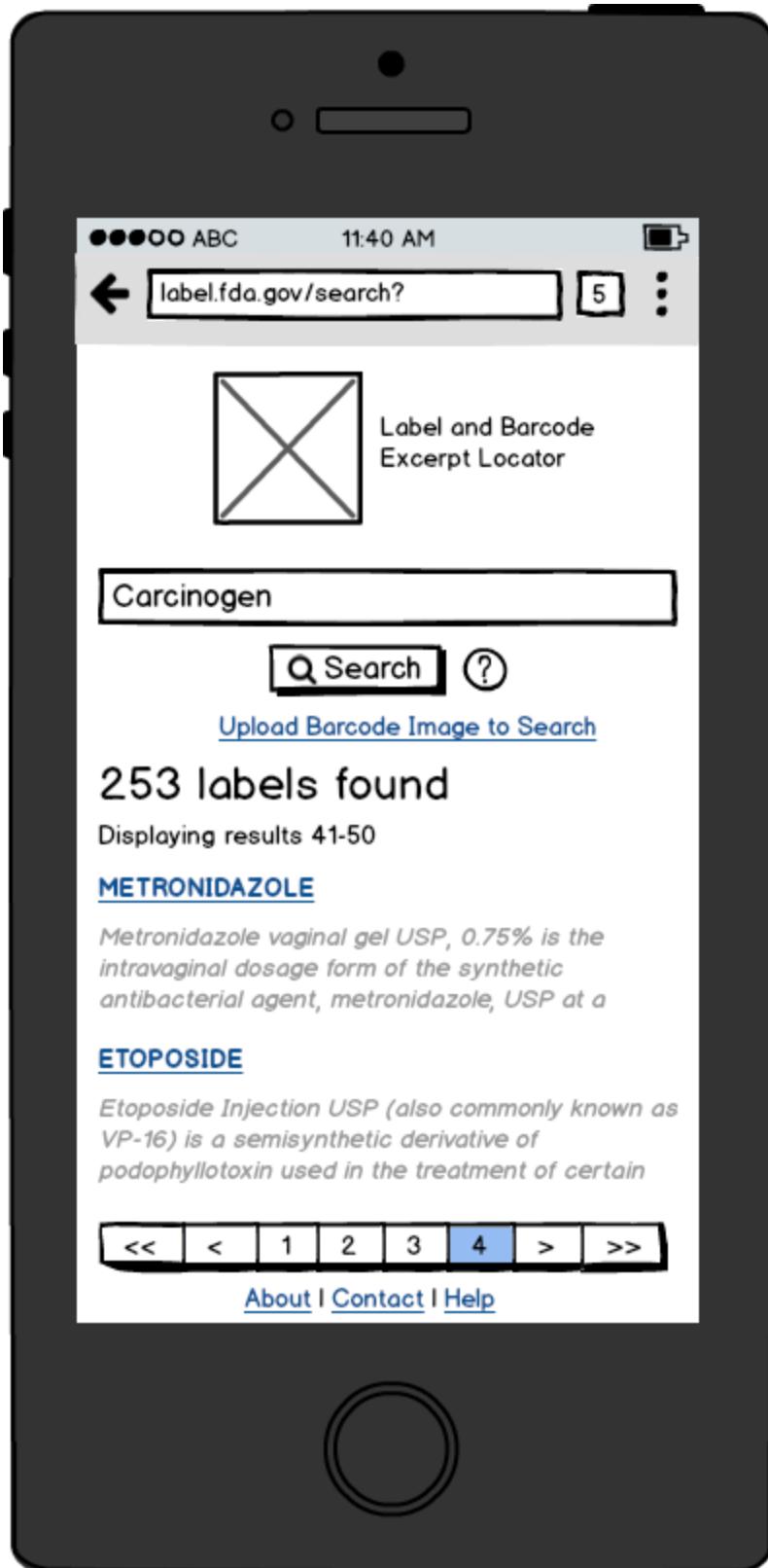
All uncategorized (unexpected) labels

Mobile

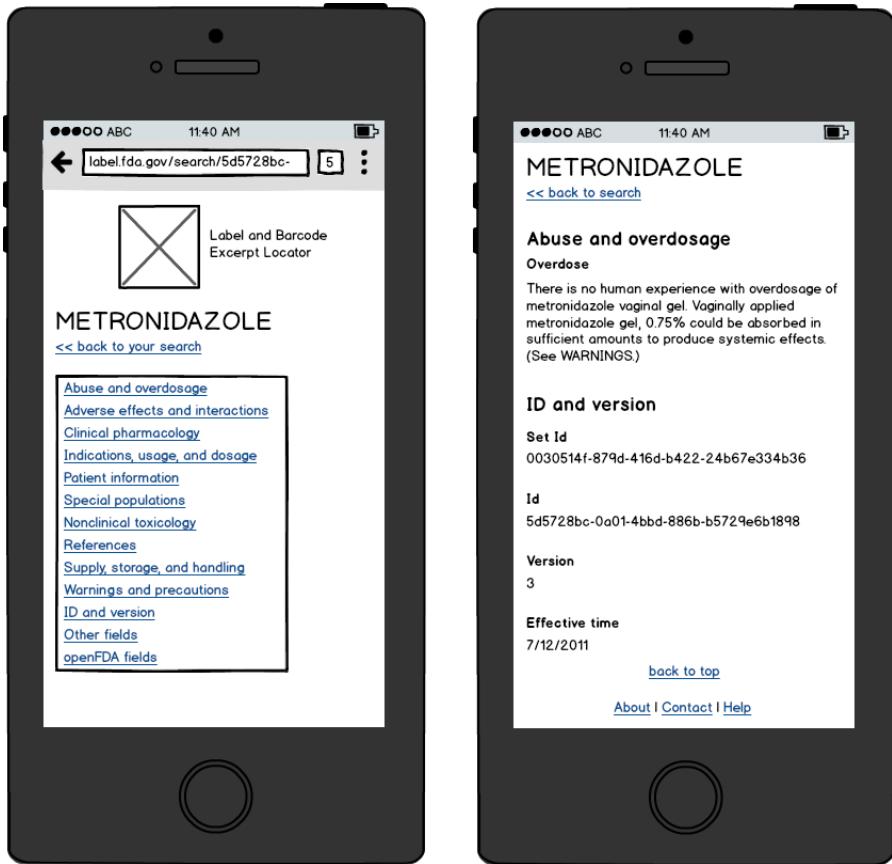
Home



Results



Label



Query Control

