

MICHIGAN STATE
UNIVERSITY

Alpha Presentation

Medication Shortages Dashboard

The Capstone Experience

Team Spectrum Health

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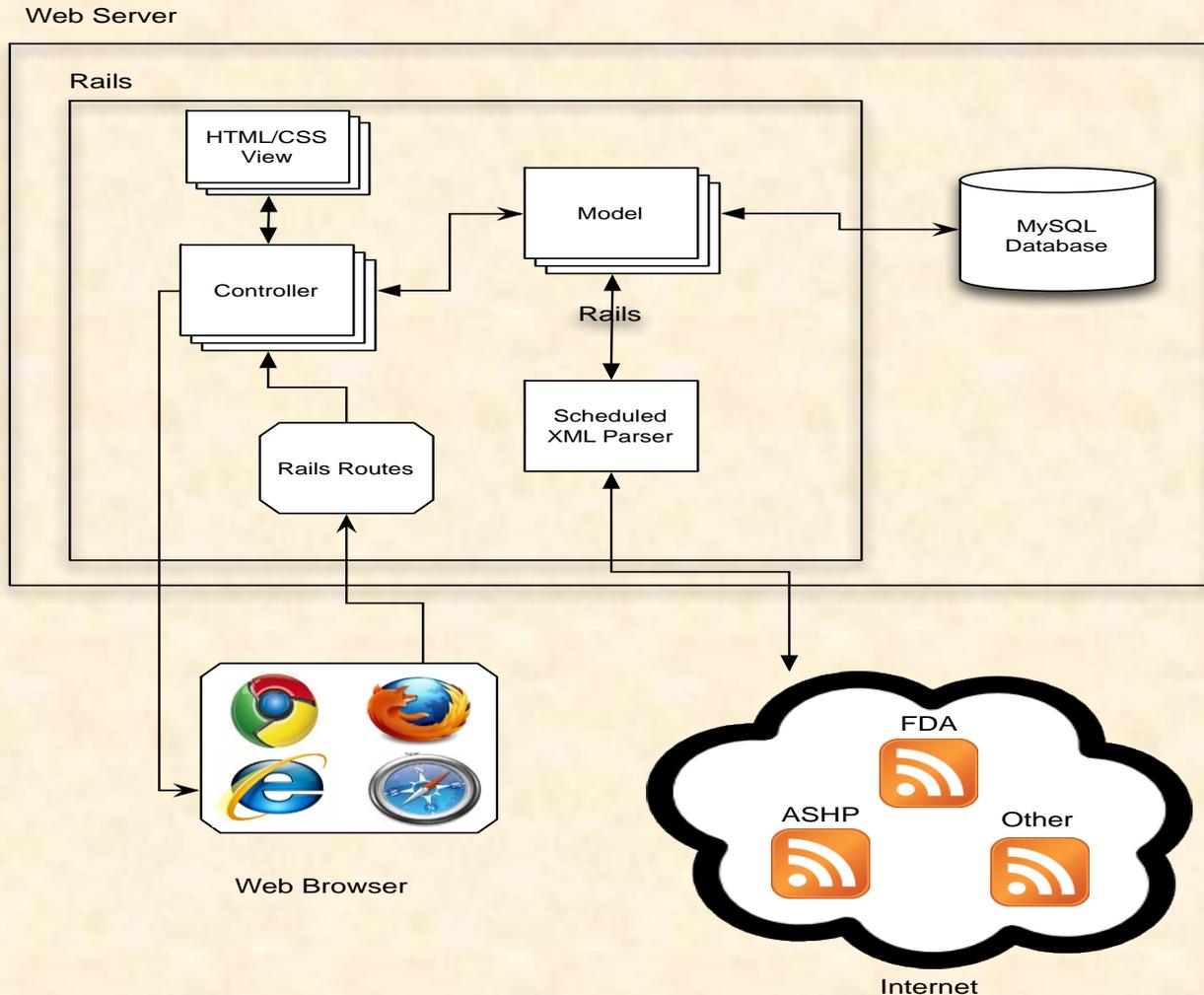
From Students...
...to Professionals

Project Overview

- Aggregate and visualize medication supply
 - Faster and more efficient
 - Watchlist, news feed
 - High-level visual of shortage
 - Help pharmacists coordinate
- Customizable by user
 - Users add/edit/view comments
 - Users add/remove shortage from watchlist
 - Moderators create/edit shortage
 - Moderators assign status of medication



System Architecture



Single Drug

The screenshot shows a web browser window with the URL `localhost:3000/drugs/41868`. The page title is "Dashboard". The main content area displays the drug name "ampicillin" and its dosage "1 Gm Vial". Below this is a "Recent Updates" section with a table of updates:

Source	Status	URL	Content
ASHP	Satisfactory	http://www.ashp.org/DrugShortages/Current/Bulletin.aspx?Source=Current&Type=Rss&id=805	
ASHP	Average	http://www.ashp.org/DrugShortages/Current/Bulletin.aspx?Source=Current&Type=Rss&id=728	
ASHP	Bad	http://www.ashp.org/DrugShortages/Current/Bulletin.aspx?Source=Current&Type=Rss&id=900	

Below the table is a button labeled "All Drugs". At the bottom of the page, there is a copyright notice "© Spectrum Health 2012" and links for "Website Privacy Policy", "Terms of Use", and "Contact Us".

On the right side of the page, there is a "News Feed" section with a list of drug names: acetaminophen, ziprasidone, raloxifene, and ketoprofen. Above the news feed, the user's email "kumarar@msu.edu" and links for "Edit profile" and "Logout" are visible.

On the left side, there is a "Search Bar" with a text input field "Type here to search..." and a "Show all drugs" button.



Drugs and Search Bar

The screenshot shows a web browser window with the URL `localhost:3000/drugs`. The page title is "Dashboard". The main content area is titled "Listing drugs" and contains a table of drug entries. Each entry has columns for "Name", "Dosage", and "Actions". The "Actions" column contains a "Show" button for each drug. To the left of the table is a "Search Bar" with the text "calcium chlor" entered. Below the search bar is a list of search results for calcium chloride. To the right of the table is a "News Feed" section with a list of drug names: acetaminophen, ziprasidone, raloxifene, and ketoprofen. At the bottom of the page, there is a copyright notice for Spectrum Health 2012 and links for Website Privacy Policy, Terms of Use, and Contact Us.

Search Bar

calcium chlor

Show all drugs

calcium chloride 1 Gm/10 mL Syringe
calcium chloride 1 Gm/10 mL Vial
calcium chloride 13.6 mEq/10 mL Vial
calcium chloride additive 100 mg/mL additive
calcium chloride in NaCl 20 mg/mL in NaCl 0.45%
calcium chloride in NaCl 20 mg/mL in NaCl 0.9% (PEDS/Apheresis only)

Listing drugs

Name	Dosage	Actions
ABH(Ativan)	1mg-Benadryl 25mg-Haldol 0.5mg Supp	Show
ACCL	L0431 (sodium thiosulfate)	Show
ALPRAZolam	0.25 mg Tab	Show
ALPRAZolam	1 mg Tab	Show
AMANTadine	100 mg Cap	Show
AMANTadine	50 mg/5 mL Syrup UD (SCH)	Show
AMANTadine Syrup	10 mg/mL Syrup	Show
AMitriptyline	10 mg Tab	Show
AMitriptyline	25 mg Tab	Show
AMitriptyline	5 mg Tab	Show
AMitriptyline	50 mg Tab	Show
AMitriptyline	75 mg Tab	Show
AMitriptyline Oral Susp	1 mg/mL Oral Susp	Show
ARIPiprazole	1 mg/mL Oral Soln	Show
ARIPiprazole	10 mg Tab	Show
ARIPiprazole	15 mg Tab	Show
ARIPiprazole	2 mg Tab	Show
ARIPiprazole	5 mg Tab (CM)	Show
ATENolol	100 mg Tab	Show
ATENolol	25 mg Tab	Show

News Feed

[acetaminophen](#)
[ziprasidone](#)
[raloxifene](#)
[ketoprofen](#)

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Edit Article

Dashboard

localhost:3000/articles/9/edit

SPECTRUM HEALTH

Drugs Articles Sources Moderate

Search Bar

Type here to search...

Show all drugs

Editing article

Suggested Drug: Dipyridamole Injection

The name of the drug pulled from the data feed

Drug: Select an Option

dipyri|

Status: dipyridamole 10 mg/mL Oral Susp

Content: dipyridamole 25 mg Tab
dipyridamole 50 mg Tab
dipyridamole 50 mg/10 mL Vial (CM)
dipyridamole 75 mg Tab

Publicly Visible

Update Article

Show Back

News Feed

- acetaminophen
- ziprasidone
- raloxifene
- ketoprofen

koumarer@msu.edu
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What's left to do?

- Watchlist
- Ability to add comments
- News feed
- Styling

