

Beta Presentation Electronic Laboratory User's Guide 2.0

The Capstone Experience

Team Henry Ford Innovations

Rocco Camilletti Cole Current Ashton Kushner Rafid Munjid Elijah Porter Andrew Roth

Department of Computer Science and Engineering
Michigan State University



Project Overview

- Catalog of laboratory test procedures
- Modern, cross-platform application
- Compatible with existing systems
- Easily maintainable

Team Member's Technical Tasks

Technical Tasks Assigned

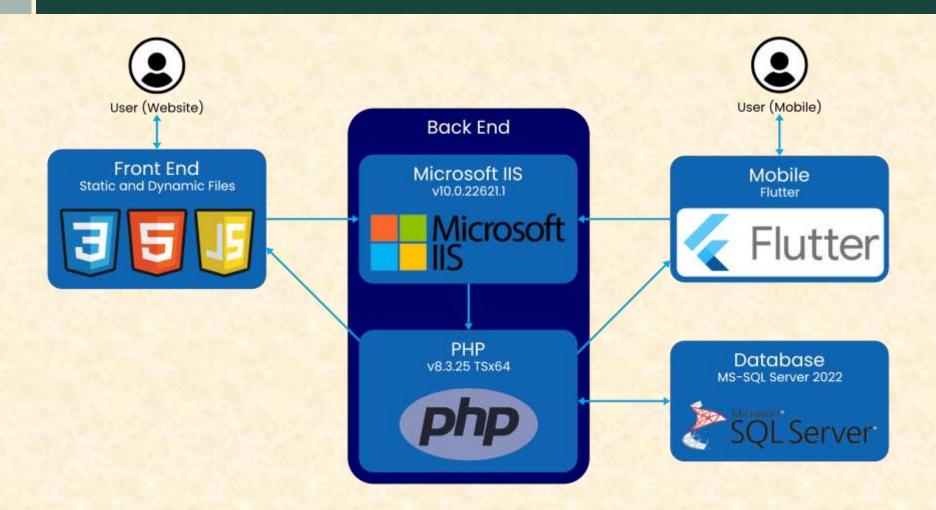
- Rocco Camilletti
 - Login API and authentication system
 - Lab test details editor
 - Narrative page search utility
- Cole Current
 - Search API and search suggestions feature
 - Laboratory management utility
 - Lab test creation utility
- Ashton Kushner
 - Lab test details page
 - Lab test details modification API
 - Administration panel
- Rafid Munjid
 - Integrated APIs into Flutter app
 - Bookmarks system
 - Recently viewed/view history feature
- Elijah Porter
 - Integration with Microsoft Entra ID
 - Narrative page visual editor
 - Search history component
- Andrew Roth
 - LIS Upload
 - Lab test changes APIs and pages
 - Reference range integration on test details page

Technical Tasks Completed

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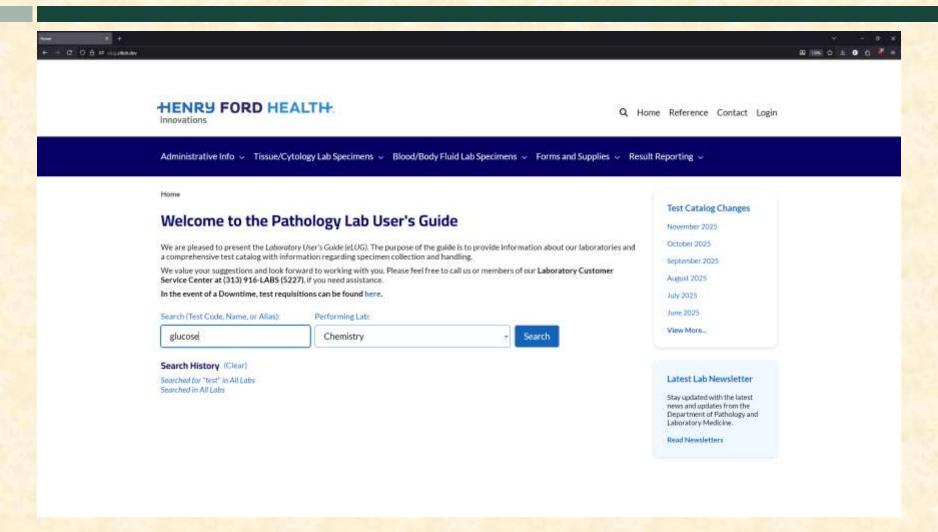


System Architecture

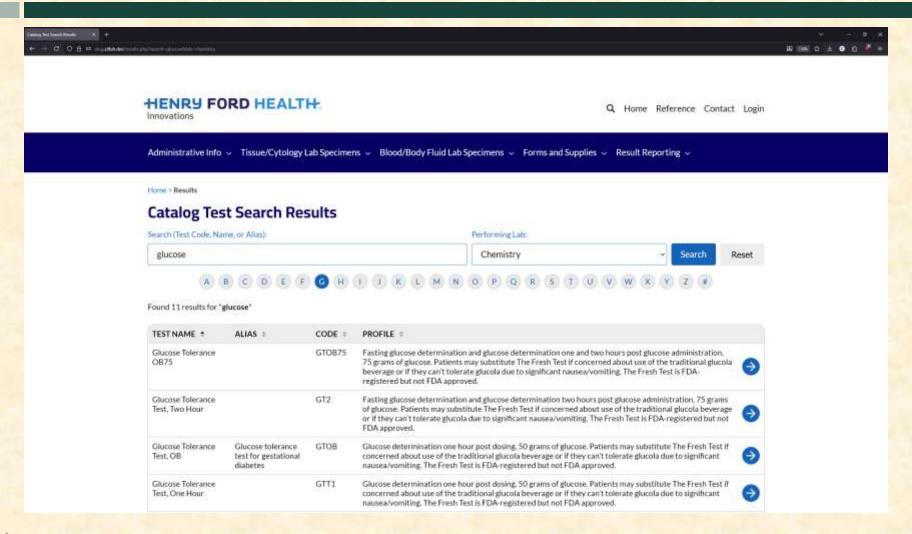




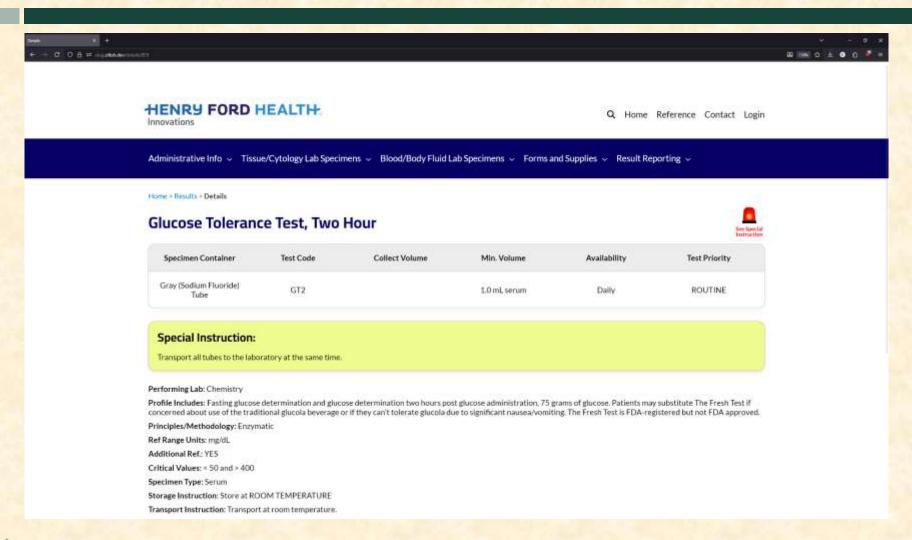
Home/Search Page



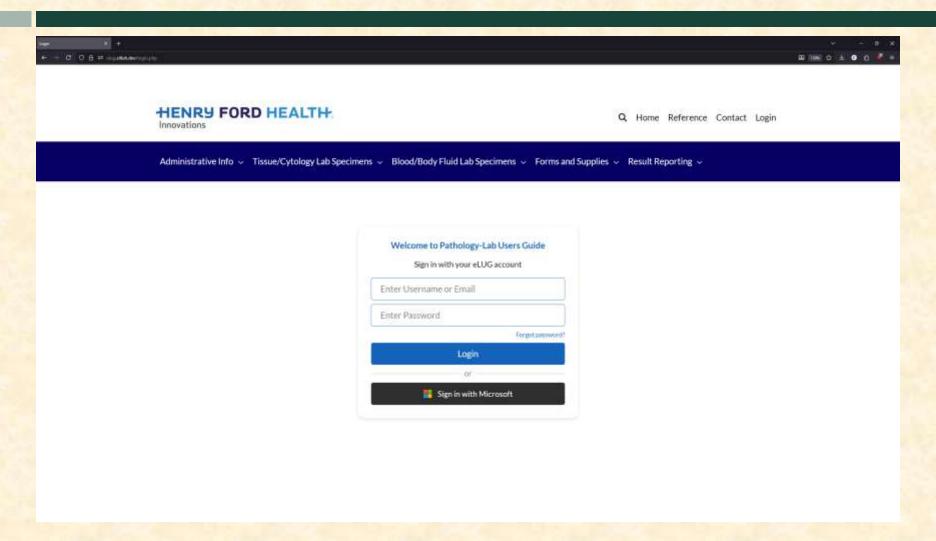
Search Results Page



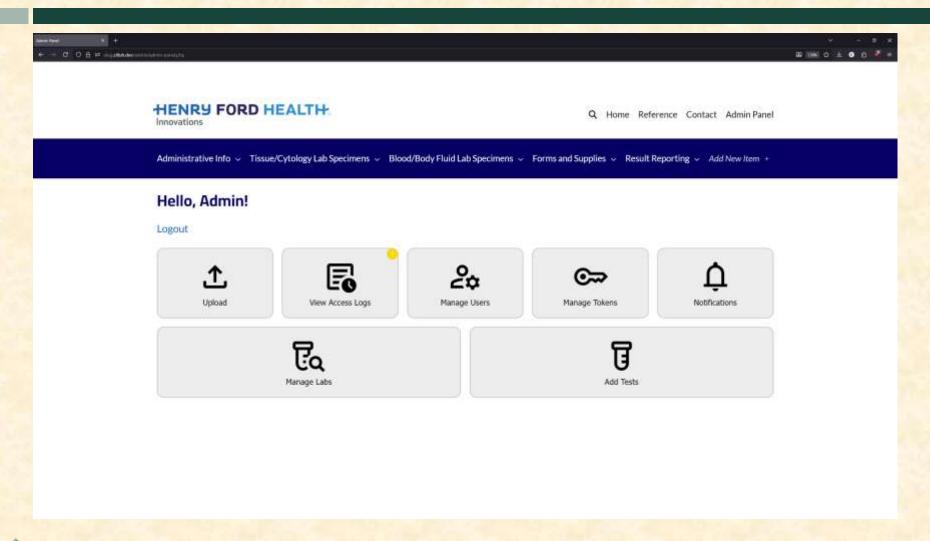
Lab Test Details Page



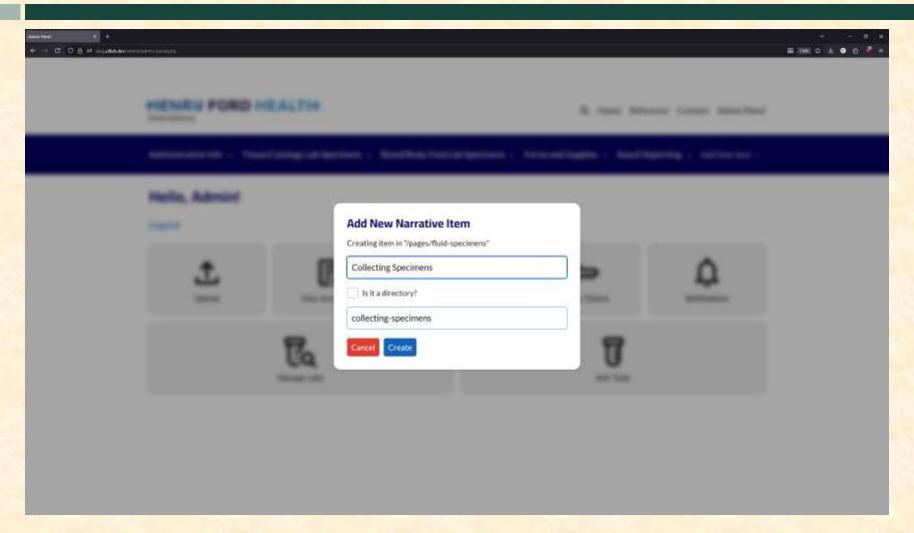
Authentication Screen



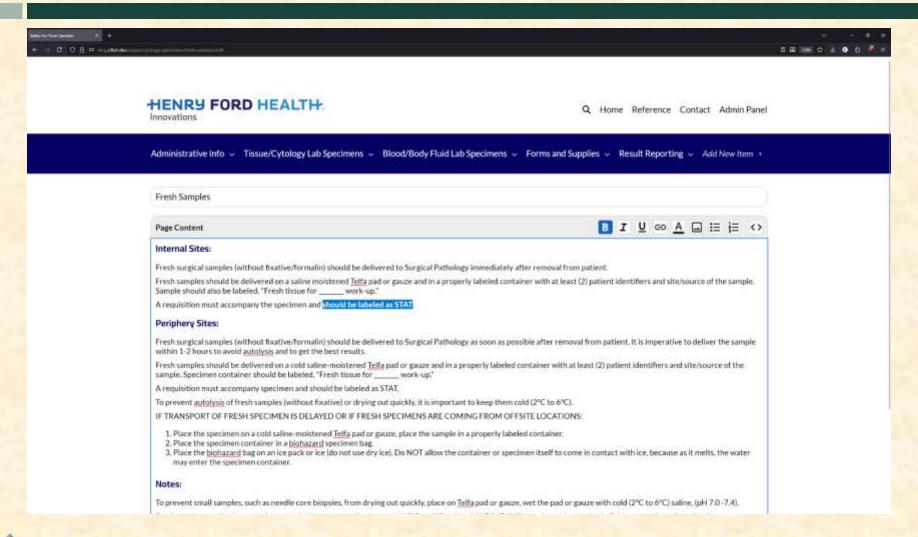
Admin Panel



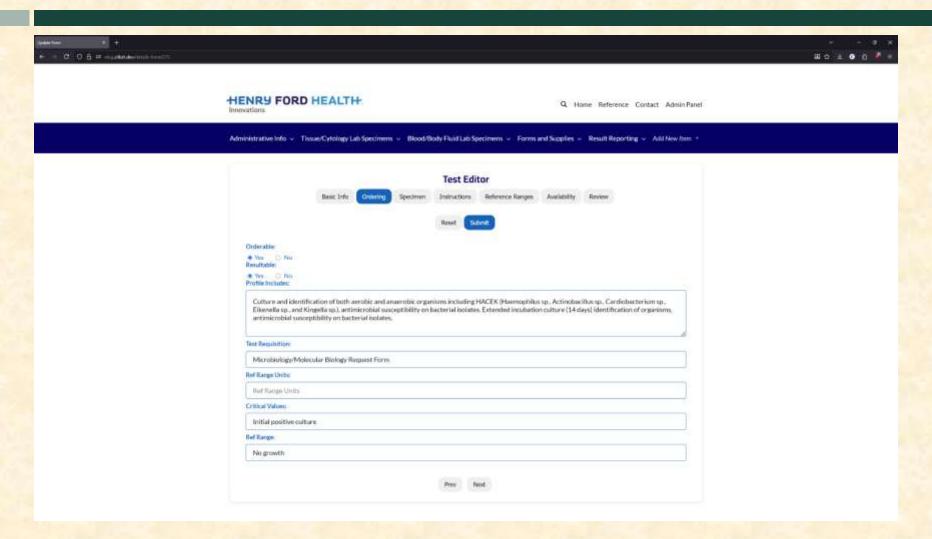
Narrative Page Creator



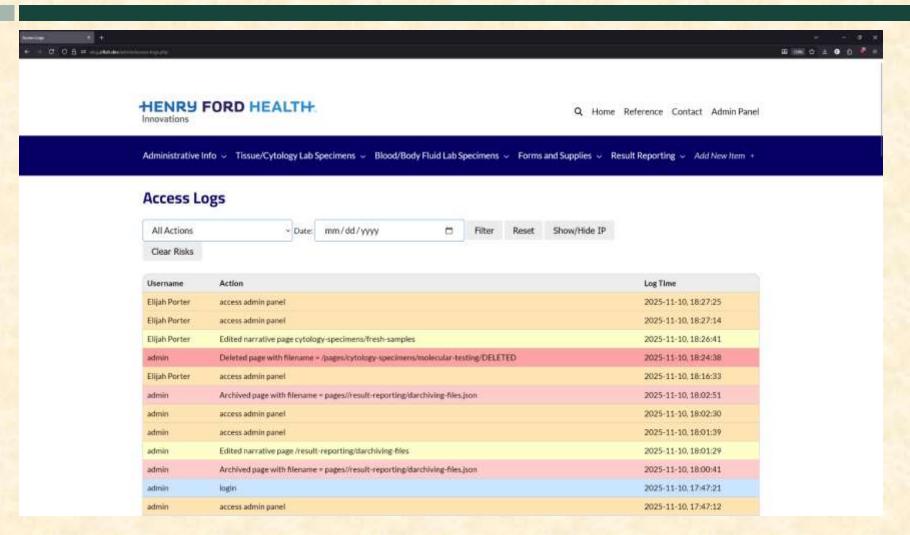
Narrative Page Editor



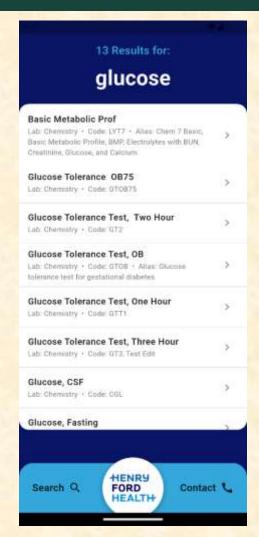
Lab Test Details Editor



Access Logs Page

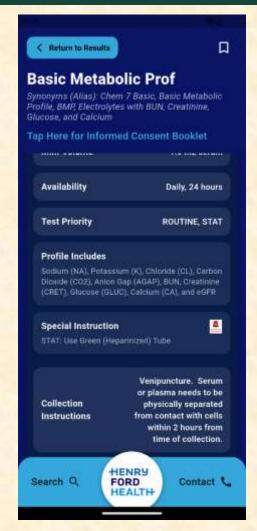


Mobile Search Page



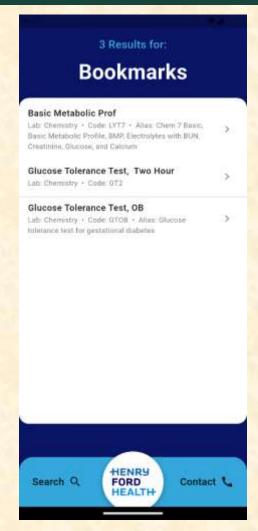


Mobile Test Details Page





Mobile Bookmarked Tests





What's left to do?

- Features
- Stretch Goals
 - System for change requests
 - Smarter search algorithm
- Other Tasks
 - Remove need for .php file extensions
 - Fix narrative page parsing
 - Recycle bin/archived search filter

Questions?

