Per Scholas Case Study – Lab Management System

Lab Management System is a web-based application that will allow admin/customers to add laboratory tests to the customer, edit and delete the tests.

This is the initial design which contains the main landing page, customer and testing services list pages, login/register for the application. The customer can register for an account, view a list of testing services. The admin can add, edit and delete customers and testing services, assign tests to customers.

Currently working on adding more functionalities to this project to meet the requirements of the initial Schema Diagram.

Tools & technology used –

* Front-end – HTML/CSS, Bootstrap, JavaScript, JSP
* Back-end – Spring MVC (Spring Data JPA), Core Java (Eclipse IDE)
* Database – MySQL (MariaDB)
* Server - Apache Tomcat
* Testing – Junit
* Project Management Tool – Apache Maven

Custom Exceptions and JavaScript validation are added to validate special conditions related to Registration.

User Stories

As a Customer - Register/Login to the website, view the contact info

As an admin - create, edit, delete Customer info

create, edit and delete tests, assign tests to Customer

Challenges faced

Integrating back-end with front-end, handler mapping and designing the work flow.