**Bug Tracking Program Project Abstract**

Project Manager: Ryan Woodward

**System Description**

A bug tracking system a software development team can use to monitor the progress of their projects. This system is essentially and effectively implemented to monitor the progress of an application. Specifically, the status and occurrence of bugs. Each bug, issue, or task is assigned with a specific id and respective status. The tickets of each of the prior can be updated with ease. Access to the system is divided into three levels: Admin, Developer, and Tester. Specific user accounts will control the access and maintain security are incorporated into the application. Individual accountability can be analyzed and tracked using the daily report option generation option. This web-based business application will prove a great tool for assigning and tracking issues and tasks during a products development.

**Product Specifications**

Three Modules, Levels of Access

* Admin/ Project Manager
  + Admin can add new users, update details of an existing user, or remove a user
  + Creates projects and assigns them to Developers for completion
  + Analyzes progress and of the project and parts assigned to particular developers
  + Add bug types, severity, and status
  + Maintains project, developer, and tester details
* Developer
  + View list of assigned projects
  + Responsible for bug status and updates
  + Reset and edit personal information (i.e. passwords)
* Tester
  + View list of assigned projects
  + Add bug details
  + View bug Statis

**Tools/ Languages/ Frameworks**

* Implement a MVC style architectural pattern
  + Frontend: Model and View with HTML, CSS, JavaScript
  + Backend: Controller with Java, Spring MVC
  + Database: SQL with MySQL
* Languages: Java, HTML, CSS, JavaScript, SQL
* Frameworks: Eclipse, Visual Studio, MySQL

**Design**

Home Page

* Top navigation menu (Home, Login, Contact, About,)
* Navigation bar (Home, Login, Contact, About)
  + If logged in provide extra Nav menu below a banner, and special access links below ‘user’ link.
  + Menu: Manage projects, manage users, manage, login, manage status
* Footer: Social media icons including Ouroboros faux home page. Include a brief company mantra representing high standards of coding.
* On left side bar have quick access that comes with being logged including and emergencies that a project contains have an alert symbol hover over the project logo.

Standards o coding

**Documentation**

**Progress Reports**

* Project Start 12/11/2020
  + First Scrum meeting
  + Written Abstract, Outline, General Design, Structure, and Architecture
  + Designated Languages, Frameworks, and Environments
* 12/19/2020
  + Second scrum Meeting
  + First hurdle, Inexperience with web development languages.
    - Set Schedule to review HTML, JS, and CSS
  + Basic Design Concept of Home Page
  + Planned what functions the program will have.
  + Began basic UML diagram for backend, MVC plans.
  + Planned for first Github Commit: Front End File Structure and Organization.
* 12/21/2020
  + Third Scrum Meeting
  + Discussed Layouts for Pages and began coding in HTML files.
  + Discussed long term goals to get to server, having ReCAPTCHA support, and proper documentation page
  + Submitted UML and Front-End design concepts for Review

**Issues/ Hurdles/ Solutions in Development**

1. Lacked experience in Front End Languages,
   1. Solution: was to review my boot camp WebDev course, watch HTML, JS, CSS Lectures. Including CSS: Flexbox and JS: Bootstrap.