Code Inspection Report

XENO

**Client**

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2 March 2015

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**1. Introduction**

Welcome to the XENO Code Inspection Report. As of the second spiral, a majority of the frontend has been completed and the SQL scripts required to tie into the backend will be created in Spiral 3.

**1.1 Purpose of this Document**

The purpose of this document is to explain and verify that the XENO team has followed and agreed upon a set of coding conventions as well as explain and verify the XENO team’s code review process. Any defects or abnormalities will be reported in this document.

**1.2 References**

* PEP 8 - Style Guide for Python Code
  + URL: https://www.python.org/dev/peps/pep-0008/
* W3Schools JavaScript Style Guide and Coding Conventions
  + URL: http://www.w3schools.com/js/js\_conventions.asp
* W3Schools HTML5 Style Guide and Coding Conventions
  + URL: http://www.w3schools.com/html/html5\_syntax.asp

**1.3 Coding and Commenting Conventions**

The style and coding conventions described in the referenced documents (See 1.2 References) will be followed without alteration. These are being used because they are clear, concise, and accepted by the public coding community. If the code is ever made public, these conventions will be easily readable by others. They were also chosen in part because they are already defined and the XENO team has used them in previous projects.

**1.4 Defect Checklist**

* Coding Convention Defects
* Commenting Defects
* Display Defects
* Conflicting CSS styles
* Wrong or Invalid HTML5 Tag Names
* Syntax Errors

**2. Code Inspection Process**

**2.1 Description**

Code inspection has mostly consisted of verifying that the website does not have any obvious display issues; that there are no errors in the minimal JavaScript, CSS, HTML, or Python files; and that the page will load from the test bed. Each team member independently opened the given URL and clicked every link. After each click, the team member verified that no errors occurred or display was altered in a negative manner. Afterwards, the group met on Skype to discuss the results. Team members tested on Safari, Chrome, and Firefox browsers. We tested in this manner to quickly test all of the pages in a short duration of time.

**2.2 Impression of the Process**

The team decided that this testing process was effective simply because of the modularity the Flask web framework provides. So far, many of the pages are created but the form data isn’t validated on the client or server side. Many of the pages still use sample data and are not integrated with the completed database backend.

**2.3 Inspection Meetings**

|  |  |  |
| --- | --- | --- |
| **Date** | **Time** | **Attendance** |
| 3/4/2015 | 06:45 – 07:30 | All Team Members |
| 3/18/2015 | 06:45 – 07:15 | All Team Members |
| 4/1/2015 | 06:45 – 08:00 | All Team Members |
| 4/8/2015 | 06:45 – 09:00 | Vesh Bhatt |

**3. Modules Inspected**

XENO is web application written in Python with the Flask web framework. See Systems Design Document for more details.

|  |  |  |
| --- | --- | --- |
| **#** | **File (in /xeno/)** | **Brief Description** |
| 1 | backend/backbone.py | Main file for Flask that routes requests and presents the proper view. |
| 2 | backend/car\_actions.py | Contains the SQL commands for the car management pages. |
| 3 | backend/configuration.py | Contains the database information. |
| 4 | backend/database\_connection.py | Contains the database abstraction layer custom written for XENO. |
| 5 | backend/user\_class.py | Contains the user session management code for Flask. |
| 6 | scripts/angular-route.min.js |  |
| 7 | scripts/angular.min.js |  |
| 8 | scripts/konami.js |  |
| 9 | scripts/module.js |  |
| 10 | templates/add\_car.tpl | The template for the add\_car page. |
| 11 | templates/dash.tpl | The template for the static elements across pages (menubar, etc). |
| 12 | templates/dashboard.tpl | The template for the landing page for a user when they are signed in. |
| 13 | templates/index.tpl | The template for the landing page when a user isn’t signed in. |
| 14 | templates/login.tpl | The template for the page where a user can login. |
| 15 | templates/menu.tpl | The template for the menu bar. |
| 16 | templates/new\_accounts.tpl | The template where new accounts can be added (admin and maintenance accounts added by admins). |
| 17 | templates/profile.tpl | The template for a user’s profile page. |
| 18 | templates/search.tpl | The template for where users can search for cars. |
| 19 | templates/sign\_up.tpl | The template for where users can create an account. |

**4. Defects**

|  |  |  |  |
| --- | --- | --- | --- |
| **Category: Defect** | **Location** | **Comments** | **Fixed** |
| Directory and file permissions are invalid | xeno directory | Change permissions in final build to reflect safe practices (550 for directories, and 440 for files). | No |
| backbone.py does not contain server side validation of form input | xeno/backend/ directory | Implement Flask-WTforms to simply this or use regex to validate incoming data. | No |

**Appendix B – Team Review Sign-off**

As of 4/13/2015, all group members of XENO have reviewed the Code Inspection Report document and all have agreed the content and format of this document is correct. This document has been tailored to meet the client’s necessities for an online web application which will offer an online exotic car rental service to VIP customers.

**Team: XENO**

Name: Vesh Bhatt

Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Name: Michael Bishoff

Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Name: Edward LaFemina

Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Name: Michael Lee

Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Name: John Swank

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**Appendix C – Document Contributions**

Vesh Bhatt:

Michael Bishoff:

Edward LaFemina:

Michael Lee:

John Swank: