CABOOSE

Guide for Users

Overview

The CABOOSE system realizes a simple software pattern. This is a pattern for a general-purpose controller within an standard architecture which also contains model and view components. This controller might be used in the production of systems as simple a text-based, menu-driven system on a stand-alone desktop computer or as sophisticated as a web-based application that harnesses RESTful web-services and NoSQL databases. CABOOSE simply defines a pattern of interaction between the canonical "concerns" in these systems. It is highly-extensible, very flexible, open-source, and standards-based.

This "prewritten" component holds the "universal" behaviors found in every "middleware" controller. As such, one only needs add the application-specific details for the system which he is creating by drafting up a controller application bundle, a CAB. This CAB is a collection of subroutines that supply the "unique" content for the view template which the system sends as a response. Hence, we have the product's name, Controller Application Bundles for Object-Oriented Software Engineering (CABOOSE).

The current implementation of CABOOSE in Python, provided with this guide, is "structured" but not "object-oriented". This just was a design choice, and it might be "enhanced" during future revisions. So, it supports object-orientated "extensions".

This current implementation of CABOOSE is designed for Windows systems and the Internet Information Server (IIS); however, it can be ported for use in LINUX environments.

Building CABOOSE Systems

1. Ensure that Python is installed for "system–wide" use.
2. Ensure that Windows Internet Information Server (IIS) is configured for your workstation.
3. Ensure that Python scripts are configured for use on this instance of IIS.
4. Deploy the starter files for this instance of Python in CABOOSE (Python ICE).
    1. Place the "Controller" folder in the web container.
    2. Place the "StoryBoard" folder in the web container.
5. Then invoke the "home" view with the following URL:
    1. http://localhost/..../Controller/caboose.py?view=home