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Re :: Comp 6000: Web Development Term Project Proposal

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Project Title :: Interactive DataBase Backup, Import and Migration tool utilizing AJAX

and XML to support web-hosted databases written in the Djnago

Framework

The project proposed herein will explore the viability of using XML as a storage mechanism for data associated with web-hosted databases written in the Django Framework. Current mechanisms exist for data migration when tables within a database are modified and a re-sync is required. Django South and other applications using JSON allow for this. However, these mechanisms are not as viable when attempting to construct straight imports as they require data to exist before they employed. As XML is easier to ‘hand-craft’, it is believed that a mechanism implementing same will facilitate an increased number of tasks including, but not limited to, data importing, data exporting, cross database population of similar data items, and easy of testing framework installation.

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| folder.JPG #Documents | administrative file for project related documents |
| Package.JPG Comp6000 | database configuration package |
| Python.JPG settings.py | database settings, configuration and organization file |
| Python.JPG urls.py | url mapping |
| Python.JPG wsgi.py | wsgi script |
| Package.JPG Control | physical data interaction package |
| folder.JPG fixtures | physical data representations… |
| folder.JPG json | … in json |
| Text.JPG database\_testdata.json |  |
| folder.JPG xml | … in xml |
| Text.JPG xml\_import\_file.txt |  |
| Text.JPG xml\_export\_file.txt |  |
| folder.JPG templates | html templating |
| Text.JPG *{un-named html file}* | *~ one file per page* |
| … … … |  |
| Text.JPG *{un-named html file}* |  |
| Python.JPG admin.py | script for admin access and direct data interaction |
| Python.JPG xml\_functions.py | scripts for xml importing and exporting |
| Package.JPG Data\_Base | database behavior and modeling package |
| Package.JPG Data | hardcoded data import package |
| Package.JPG Imports | individual import package and scripts for … |
| Python.JPG business\_import.py | … the business table |
| Python.JPG child\_import.py | … the child table |
| Python.JPG person\_import.py | … the person table |
| Python.JPG school\_import.py | … the school table |
| Python.JPG Prime.py | primary import script |
| Python.JPG models.py | database table schemas and functionality |
| Python.JPG tests.py | data verification via formalized unit-testing |
| Python.JPG views.py | database interaction medium; bridges the html to the  database tables |
| Python.JPG manage.py | primary database control script |
| Text.JPG sqlite.db | django’s inherent physical database representation |
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