

COMP3001 2012/13 Group Coursework Assignment

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January 9, 2013

1 Prototype Functionality

The system created was a prototype of a text book selling system for use by university students. The intent is that students, when finishing a module, can put their module text book on the website so that they can sell it to students who will be starting this module after them.

Here is a list of all features implemented in the prototype:

- sell books;
- buy books;
- search books;
- basket system;
- PayPal checkout;
- messaging system;
- registering users;
- book templates (for selling books that are already known to the system);
- predictive search.

2 Tools and Techniques

The tools used during the development process were the following:

- Editors:
 - Vim;
 - Notepad+;
 - Sublime Text.
- Source Control:
 - Git.
- Testing:
 - Google App Engine Local Launcher;
 - Google App Engine Runner*.

The programming techniques used during the development process were the following:

- web page templates.

*The Google App Engine Runner is a system which updates the App Engine when there is a push to the Git repository. Each branch has its own link to what the final website will look like as the branch currently exists, as well as access to standard out and standard error from the associated Google App Engine instance.

3 Statistics

4 Design and Implementation

The following list contains all of the technologies and how they were used:

- Google App Engine Data Store keeps track of users, books, messages between users and sessions;
- Python interfaces are used to interact with the data store for the purposes of retrieving and adding information;
- templates are used to decouple the database system and the HTML formatting;
- JavaScript is used for predictive search, logging in and listing books;
- client side validation for forms is performed by HTML5.

5 Critical Evaluation