COMP3001 2012/13 Group Coursework Assignment

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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)

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.

3   Statistics

4 Design and Implementation

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

- Google App Engine Data Store which keeps track of users, books, messages between users and sessions.

- Python interfaces are used to interact with this for the purposes of retrieving information from the data store and adding things to the data store.

- Templates were used to decouple the database system and the HTML formatting.

- JavaScript is used for predictive search, logging in, listing books.

- Validation is performed by HTML5.

5 Critical Evaluation