

Group Project: Textbook Share
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List of things exceed CRUD:

1. Websocket and ajax: we used ajax engine to update some trivial information on our website(log in successful,wrong password); for nontrivial real-time update: websocket is used. In our example:whenever a user creates a new book record or deletes an existing book record, the rest of clients who are connected to the server will receive the updated information without the need of reloading their webpages. Whenever server receives messages from clients side, it will broadcast the message to all of the clients, so that the real time update without reloading the pages for all users can happen.
2. Multer module in node.js: this is allowed user to upload their hard drive image to the server end. The image can be used to display the REAL condition of the textbook instead of using amazon book picture online.
3. Inexact Search: We think it's best practise to make user able to search "programming" instead of "java programming". So we enable inexact search in MySQLite where like clause in severer end. However, if the user types ISBN, inexact search is turned off; otherwise it generates too much results.
4. Google GeoCode API: Based on seller's location, google GeoCode API was implemented to fetch JSON package for GPS coordinates.
5. Google Map API: After obtaining GPS coordinates, google marker and google map are used to display the seller's location so that the buyer can determine whether they can trade the textbook offline. The address shown is seller's college address instead of private address to protect privacy.
6. Nodemailer module in node.js: it allows server to create a reusable transporter object using SMTP transport and send emails with the transporter object. Buyer's address, shipping methods, name and ordered books info will be enclosed in HTML body and sent to seller's email account after orders are placed by buyers.

***Not Related To This Course, but we think it's cool ***

Android App version of this website(real app not webview) is also implemented.
Email us for the source code.