DataWorks — Business Rules, Dictionary Requirements, & Constraints

Business Rules

BR-1	Only librarians are allowed to add, modify, and delete materials in the materials database.
BR-2	You should be able to search materials by author, title, and genre without being required to login.
BR-3	Patrons cannot checkout more than 10 books at a time (e.g. 11th book is rejected)
BR-4	Patrons are fined 10cents per day, per item, after the item reaches 30days since checkout, unless checkedin
BR-5	Anyone visiting the site should be able to (have access to) perform searches on the books
BR-6	Out of circulation books should not be shown on patron searches

Dictionary

	Term	Definition
1	Librarian	Library employees with elevated previlages to the system (add/modify/delete books, add patrons, mark patrons fines paid)
2	Public	The general public (what is avaliable for everyone to see)
3	Patron	Members of the public that have signed up as a patron of the library with some additional abilities (checkout/in book, pay fines)

Technical Requirements

TR-1	The system shall fully operate with current versions of Microsoft Internet Explorer, Firefox, and Google Chrome as well as standard Android and IOS browsers.
TR-2	The system shall fully operate on a corporate approved, Microsoft Windows 200? server using Internet Information Server ?. (instruct.biz.uiowa.edu)
TR-3	The system shall accommodate 100 concurrent users at peak usage times of $9AM-4PM$, local time.
TR-4	All pages generated by the system shall be fully downloadable in no more than 10 seconds over a 512kbsp DSL connection.
TR-5	Responses to queries shall take no longer than 7 seconds to load onto the screen after the users submits the query.
TR-6	Website hosting service should have a 99% uptime
TR-7	All pages should be formated properly and aligned as intended in windows as small as 1280x720

Constraints

CO-1	All network transactions that involve logins, financial information, or personally identifiable information shall be encrypted.
CO-2	The system shall provide an online hierarchical cross-linked help system in HTML that describes, illustrates, and provides examples for all system functions.
CO-3	All HTML code shall conform to XHTML 1.0 transitional.
CO-4	All CSS code shall conform to CSS 2.1.
CO-5	System shall be properly versioned and tagged
CO-6	System code should have adaquate comments throughout