**OTTOBOOKS**

Client-Facing Web Application

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# Revision and Usage History

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| --- | --- | --- |
| Modified By | Reason | Date |
| Eric Escamilla | Created ToC and Base Requirements | 2014-01-18 |
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# System Requirements

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| SR (System Requirements) STATUS | SR DESCRIPTION |
| SR – 10 | The applications shall be written in PHP v. 5.4.16. |
| SR – 20 | The application shall run on a static Apache web server configured to listen on port 80. |
| SR – 30 | The application shall use a MySQL database for storage. (See Appendix A for MySQL schema). |
| SR – 40 | The application shall use Session Variables for storing client-server middle information such as shopping cart data and basic presentation data (such as user name, date, session id, time logged in date and time zone). NOTICE: No cookies shall be implemented. See Appendix B for complete list. |
| SR – 50 | The HTTPD configuration shall allow for proxy passing. |
| SR – 60 | The PHP Configuration file shall allow PDO extension support. |
| SR – 70 | The PHP Configuration file shall have the following error-related message settings:   * Strict-Errors: OFF * Notices: OFF * Fatal-Errors: OFF |
| SR – 80 |  |

# Functional Requirements

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| --- | --- |
| FR (Functional Requirement ID) STATUS | FR DESCRIPTION |
| FR – 10 | The webserver shall possess the capability to allow incoming connections on port 22 for FTP and SFTP sessions. |
| FR – 20 | The .htaccess file shall be configured to not allow any file extensions. |
| FR – 30 | The .htaccess file shall possess the capability to render the following error pages [R]:   * 404 * 500 |
| FR – 40 | The website shall require the user to login before any account data is accessed. |
| FR – 50 | The user shall be able to upload a photo to represent visual confirmation of their identity to other users. |
| FR – 60 | The user shall be forced to use their school email in order to confirm they are still enrolled with a functioning “.edu” account. |
| FR – 70 | The user shall be able to add an additional email for security purposes such as password changes and password reminders. |
| FR – 80 | The user shall also be able to add a cell-phone number for SMS messages pertaining to security reasons should they choose this service. |
| FR – 90 | The user shall be able to add and store a credit card for future use. |
| FR – 100 | The user shall be able to update ALL profile information using an account edit page. |
| FR – 110 | The user shall be able to view totals of their profit using a data view, rendering profit to date, profit for selected date ranges, and items related to each sale in table-view format. |
| FR – 120 | Account information shall NOT BE VISIBLE to other users. |
| FR – 130 | The user shall not be able to view buyer information or make contact with the buyer until the payment has been processed. |
|  | The site shall use Bootstrap CSS and Javascript for Alerts, Menu bar navigation, modal displays, and data displays (class= table, alert alert-x; <nav>, </b>) for responsive performance across browsers. |

# Capacity Requirements

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| --- | --- |
| CR ID STATUS | CR DESCRIPTION |
| CR – 10 | The web server shall have the capability to maintain performance form up to 50,000 TPS (Transactions per second). |
| CR – 20 | The web server shall run CRON jobs at the end of the week to process payment information (including mathematical financial computations for profit and user data) and initiate transactions between accounts. |
| CR – 30 |  |