BookMeUp Requirements

# Functional Requirements

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| FR001 | The solution must allow users register. |
| FR002 | The solution must show the following information about items: item image, item description, item price in CAD, item location |
| FR003 | The solution must be able to allow sellers post an ad for used book sales. |
| FR004 | The solution must be able to display alternative purchase options if the searched book is not available. |
| FR005 | The solution must be able to allow users search for books using the following search criteria: book name, book author, book ISBN, book category. |
| FR006 | The solution must be able to allow buyers and sellers communicate anonymously. |
| FR007 | The solution must be able to allow books indexed according to the following categories: Science and Mathematics, Engineering, Applied Technology, Nursing, Arts, Business, Health and Fitness, Sports, Religion, and Social Sciences. |
| FR008 | The solution must ensure that users login before use. |
| FR009 | The solution must be able to allow sellers the following permissions to the posts: create, modify, and delete. |
| FR010 | The solution must be able to allow buyers make payments to promote their ads. |
| FR011 | The solution must allow the Application admin to do the following: edit user, delete user account, delete post, review post, publish post, and promote ad. |
| FR012 | The Application must allow user upload pictures of size not more than 4 megabytes per picture. |

# Non Functional Requirements

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| NFR001 | The solution must allow up to 1,000,000 simultaneous users. |
| NFR002 | The solution must be able to return search results in not more than 2 seconds. |
| NFR003 | The solution must be secured against SQL injection attack. |
| NFR004 | The solution must be able to prompt for verification after 1 failed login attempt. |
| NFR005 | The solution must allow for username/password retrieval |
| NFR006 | The solution must ensure that users do not use previously used password when changing password. |
| NFR007 | The solution must be available 24/7. |
| NFR008 | The solution must not be down for maintenance for more than twice in a month. Downtime must be during 2 am and 5 am EST. |

# Use Cases

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| Use Case Numer | US0001 |
| Use Case Name | Post an ad |
| Short Definition | This is a use case for posting an ad |
| Primary Actor | Customer (Seller) |
| Pre-Condition | * Must have an active Internet connection * Must have mobile application installed * Must reside in Canada * Must be verified and logged in. |
| Post Condition | * Confirm ad post success * Creates a bookmeup post ID * Application sends an email notification to customer to confirm successful ad post. * Application returns to home page |
| Main Scenario | The main scenario starts when the customer selects “post an ad” Step 1: Application displays a page that prompts the user to enter the following:   * Book’s title * Book’s description * Book’s author * Book’s ISBN * Sale’s price * Book’s use condition (drop down) * Book’s pickup location   Step 2: User fill the info on step 1 and clicks “next”  Step 3: Application requests that user get book’s picture from   * gallery or * snap using camera.   Step 4: User selects one of the options \*  Step 5: User uploads the image \*  Step 6: User clicks on “Done” to submit the post.  Step 7: Application returns to the homepage  Step 8: The use case ends |
| Secondary Scenario (Alternate flows and exceptions) | 1. If at step 4 of the main scenario, user selects gallery   (A1) Application shows the gallery  (A2) Application resumes step 5   1. If at step 5, user selects an image over 4 megabytes   (B1) Application shows an error message “File size must be less than 4MB”  (B2) Application returns to step 3   1. If at any point between step 1 and step 6 of the main scenario, the application remains idle for more than 3 minutes, the session must be expired and the following message displayed: “Sorry your session has expired due to inactivity. Please start application all over again” |

# Use Case Diagram