Ideation Phase

Brainstorm & Idea Prioritization Document (Filled)

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| Date | 19-07-2025 |
| Team ID | LTVIP2025TMID42803 |
| Project Name | Booknest - Online Bookstore Web App |
| Prepared By | Team LTVIP2025TMID42803 |
| Maximum Marks | 4 Marks |
| Document Purpose | Capture brainstorming outputs & prioritize Booknest features for MVP and future iterations |

# Project Brief

Booknest is an online bookstore platform enabling users to browse, search, and purchase books while providing administrators with tools to manage inventory and orders. The goal of this brainstorming exercise is to refine core feature ideas, surface innovation opportunities (e.g., recommendations, wishlists), and prioritize what goes into the Minimum Viable Product (MVP) vs. later releases.

# Step 1: Team Gathering, Collaboration & Problem Statement Selection

\*\*Primary Problem Statement:\*\*

Readers need a convenient, fast, and reliable way to discover, evaluate, and purchase books online while ensuring that the inventory stays accurate and order fulfilment is seamless for administrators.

\*\*Success Criteria (High-Level):\*\*

• Users can register, login, browse categories, add to cart, and place an order successfully.  
• Admins can add/update/delete books and view all orders with correct state transitions.  
• Basic performance: Book list loads under 2 seconds for standard dataset.  
• Database consistency: Inventory counts reflect purchases immediately.

\*\*Constraints & Assumptions:\*\*

• Time-bound internship delivery → Focus on core commerce flow (browse → cart → order).  
• Single database (MongoDB) instance for MVP.  
• No payment gateway integration initially (simulate order confirmation).  
• Responsive UI, but minimal advanced UX polish in MVP.

\*\*Stakeholders / Roles:\*\*

• End Users (Readers)  
• Admin / Inventory Manager  
• Internship Mentors / Reviewers

# Step 2: Brainstorm, Idea Listing & Grouping

\*\*Raw Idea Pool (Unfiltered):\*\*

* - User auth (register/login/logout, password reset)
* - Browse by category / genre
* - Full-text search (title, author, ISBN)
* - Book detail page with description, price, stock
* - Add to cart / remove from cart / update quantity
* - Checkout & order confirmation (mock payment)
* - Order history & order status tracking
* - Admin add/update/delete book
* - Admin view all orders & update order status
* - Inventory auto-decrement on order placement
* - Wishlist / Save for later
* - User reviews & ratings
* - Personalized recommendations (collaborative filtering or simple ‘similar category’ suggestion)
* - Discount codes / promotional pricing
* - Email notifications for order confirmation
* - Low-stock alerts for admin
* - Bulk CSV import/export of catalog
* - Analytics dashboard (sales by category, top sellers)
* - Dark mode UI
* - Mobile-first responsive design enhancements
* - Multi-currency support
* - Internationalization (i18n)
* - Book bundles / combo offers
* - Recently viewed items
* - Advanced filtering (price range, author, rating)

\*\*Grouped Themes:\*\*

Core Commerce Flow: Auth, Browse / Category, Search, Book Detail, Cart, Checkout, Order History

Admin & Inventory: CRUD Books, View Orders, Stock Management, Low-stock Alerts, Bulk Import/Export

User Engagement: Wishlist, Reviews & Ratings, Recently Viewed, Recommendations

Growth & Marketing: Discount Codes, Bundles/Offers, Email Notifications

Experience & UI: Responsive Design, Dark Mode, Advanced Filtering

Scaling & Advanced: Analytics Dashboard, i18n, Multi-currency

# Step 3: Idea Prioritization

\*\*Prioritization Method:\*\* Impact vs. Effort (High ↔ Low). MVP focuses on High Impact / Low–Medium Effort features enabling a functional purchase loop.

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| Feature | Impact | Effort | Priority | MVP? |
| User Authentication | High | Medium | P1 | Yes |
| Browse by Category | High | Low | P1 | Yes |
| Search (basic) | High | Medium | P1 | Yes |
| Book Detail Page | High | Medium | P1 | Yes |
| Cart Management | High | Medium | P1 | Yes |
| Checkout (mock) | High | Medium | P1 | Yes |
| Order History | High | Low | P1 | Yes |
| Admin CRUD Books | High | Medium | P1 | Yes |
| Admin View Orders | High | Low | P1 | Yes |
| Inventory Adjustment | High | Low | P1 | Yes |
| Wishlist | Medium | Low | P2 | Later |
| Reviews & Ratings | Medium | High | P3 | Later |
| Recommendations (simple) | Medium | Medium | P2 | Later |
| Discount Codes | Low | Medium | P3 | Later |
| Email Notifications | Medium | Medium | P2 | Later |
| Low-stock Alerts | Medium | Low | P2 | Later |
| Bulk Import/Export | Low | Medium | P3 | Later |
| Analytics Dashboard | Medium | High | P3 | Later |
| Advanced Filtering | Medium | Medium | P2 | Later |

\*\*Selected MVP Scope:\*\* All P1 features required to let a new user register, discover a book, place an order, and allow admin to manage catalog and view orders. Non-essential engagement and analytics features deferred.

## Risk & Mitigation (Key)

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| Risk | Impact | Mitigation |
| Search performance on large dataset | Medium | Use indexed fields; limit initial dataset size. |
| Data inconsistency on concurrent orders | Medium | Atomic updates in MongoDB; validate stock before confirm. |
| Scope creep | High | Strictly freeze MVP after prioritization sign-off. |
| UI responsiveness delays | Medium | Optimize static assets; defer advanced styling. |

# Next Actions

* - Finalize data models (Book, User, Order, CartItem).
* - Set up MongoDB collections & indexes.
* - Implement authentication & session management.
* - Develop core user flow: browse → detail → cart → checkout.
* - Implement admin CRUD and order list.
* - Quality assurance: unit tests for service layer; integration tests for order flow.
* - Prepare deployment guide / environment variables documentation.
* - Plan iteration 2 for wishlist & email notifications.

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Document generated for internship submission.