

Front-End UI/UX Mini Project
CIA-3 Report
On
Personal Portfolio Website and
E-Book Reader Web App

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E-Book Reader Web App

1) Abstract

The **E-Book Reader Web App** is a responsive, browser-based reader that lets users browse a personal library, view book details, and read books inside a lightweight web reader. It focuses on a clean dark-themed UI, quick filtering/search, basic library management (favorites, add/remove), and a reader with table-of-contents, font/line-height controls, themes (light/dark/sepia), and page progress tracking.

2) Objectives

- Provide an accessible, distraction-free reading experience in the browser.
- Let users browse and filter a library (search, genre/format/status filters).
- Display book metadata and reading progress; allow favorites and library toggling.
- Create a reader with adjustable font size, font family, line height, themes, and simple pagination.
- Use standard, lightweight web technologies for portability (HTML5/CSS3/vanilla JS + Bootstrap/Font Awesome).

3) Scope of the Project

- Local, client-side demo app (no backend) to manage and read sample books.
- Supports text-based reading (sample content in script.js), with indication of EPUB/PDF formats.
- Good starting point for adding persistence (localStorage), real EPUB/PDF rendering (e.g., epub.js / PDF.js), user accounts, cloud sync, or online library integration.

4) Tools and Technologies Used

- HTML5 (semantic structure)
- CSS3 with a custom theme + Bootstrap 5.3 (layout, forms, responsive grid)
- JavaScript (Vanilla) for state, DOM rendering and interactivity
- Font Awesome for icons
- Images: Pexels (covers used in sample data)
- Dev tools: any code editor (VS Code recommended), browser devtools for debugging

5) HTML Structure Overview

- `nav.navbar` — top navigation (brand, sidebar toggle, tagline).
- `.container-fluid > .row` — main layout: left `#sidebar` and right `.main-content`.
- `.view-section` variants: `#libraryView`, `#bookDetailView`, `#readerView` — only one visible at a time.
- `#booksGrid` — grid where book cards are injected by JS.
- `#readingContent` — reader content area (chapters loaded by JS).
- Structural decisions: responsive columns, separate panels for contents/settings inside reader view, sticky reader header/footer

6)CSS Styling Strategy

- Dark blue theme using CSS variables (`:root`) for consistent palette and easy overrides.
- Bootstrap for base components + custom classes (`bg-navy`, `bg-dark-blue`) to keep visual identity.
- Card-based library UI: `.book-card` with hover effects, overlay, and floating action buttons for quick actions.

- Reader styling: centered .reading-content with theme classes (theme-light, theme-dark, theme-sepia), adjustable line-height, font-size, and fonts for readability.
- Accessibility/UX touches: focus outlines for form controls, readable font stacks, sticky header/footer for reader, keyboard-friendly large click targets.
- Responsive: media queries for sidebar and reader height changes so reading works on mobile.

7) Key Features

- Library view with dynamic rendering of books array.
- Search (title/author/ISBN) + filters for genre, format, reading status.
- Quick filters: Favorites and My Library.
- Book detail view showing metadata, synopsis, tags, progress bar and actions: favorite, add to library, change status.
- Reader view with: pagination (prev/next), progress bar, table-of-contents, font size, font family, line-height, themes, and reading progress tracking.
- Visual cues: badges for format/status, progress bars on cards and detail view, rating stars.

8) Challenges Faced and Solutions

Below I list the real issues found in your JavaScript (mostly template literal / string quoting mistakes and selector typos) and how to fix them. Fixing these will make the app run as intended.

9) Outcome

- A polished UI for browsing a sample library of 6 books with cover images, metadata and badges.

- Working filters/search (once the template literal fixes are applied).
- A detailed book view with progress visualization and quick actions.
- A functional reader UI that supports pagination, font/line-height adjustment and theme switching (after fixes).
- A strong visual, responsive design ready for extension (PDF/EPUB integration, persistence).

10) Future Enhancements

Short term

- Save user state (favorites, progress, readingStatus) to `localStorage` for persistence.
- Keyboard navigation in reader (left/right arrows for pages; `b` for toggle bookmarks).
- Debounced search input to reduce re-rendering on each keystroke.

Mid term

- Integrate EPUB reading with `[epub.js]` to display real EPUB content and handle real TOC.
- Integrate PDF rendering with `[PDF.js]` for in-app PDF reading.
- Allow uploading of local files and parsing metadata (or at least adding user-provided books).

Long term

- User accounts + cloud sync, bookmarking across devices, social features (sharing highlights), notes & annotations, text-to-speech (TTS) mode, reading statistics & achievements.

11) Sample Code

Index file

```

ebookindex.html • JS ebookscript.js 9+ • # ebookstyle.css 2 •
CIA 3 HTML > ebookindex.html > html
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>E-Book Reader Web Application</title>
7   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet">
8   <link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css" rel="stylesheet">
9   <link href="styles.css" rel="stylesheet">
10 </head>
11 <body>
12   <!-- Navigation Header -->
13   <nav class="navbar navbar-expand-lg navbar-dark bg-navy fixed-top">
14     <div class="container-fluid">
15       <button class="btn btn-outline-light me-3" id="sidebarToggle">
16         <i class="fas fa-bars"></i>
17       </button>
18       <a class="navbar-brand" href="#">
19         <i class="fas fa-book-open text-primary me-2"></i>
20         BookReader
21       </a>
22       <div class="navbar-nav ms-auto">
23         <span class="navbar-text">Your Digital Library</span>
24       </div>
25     </div>
26   </nav>
27
28   <div class="container-fluid">
29     <div class="row">
30       <!-- Sidebar -->
31       <div class="col-lg-3 col-md-4 sidebar bg-dark-blue" id="sidebar">
32         <div class="sidebar-content p-4">
33           <h5 class="text-light mb-4">
34             <i class="fas fa-search me-2"></i>Search & Filter
35           </h5>
36
37           <!-- Search -->
38           <div class="mb-4">
39             <label class="form-label text-light">Search Books</label>
40             <input type="text" class="form-control bg-navy text-light border-secondary"
41               id="searchInput" placeholder="Title, author, ISBN...">
42           </div>
43
44           <!-- Filters -->
45           <div class="mb-4">
46             <label class="form-label text-light">Genre</label>
47             <select class="form-select bg-navy text-light border-secondary" id="genreFilter">
48               <option value="">All Genres</option>
49               <option value="Classic Literature">Classic Literature</option>
50               <option value="Science Fiction">Science Fiction</option>
51               <option value="Romance">Romance</option>
52               <option value="Fantasy">Fantasy</option>
53               <option value="Dystopian Fiction">Dystopian Fiction</option>
54               <option value="Literary Fiction">Literary Fiction</option>
55             </select>
56           </div>
57
58           <div class="mb-4">
59             <label class="form-label text-light">Format</label>
60             <select class="form-select bg-navy text-light border-secondary" id="formatFilter">
61               <option value="">All Formats</option>
62               <option value="EPUB">EPUB</option>
63               <option value="PDF">PDF</option>
64             </select>
65           </div>
66

```

```

67         <div class="mb-4">
68             <label class="form-label text-light">Reading Status</label>
69             <select class="form-select bg-navy text-light border-secondary" id="statusFilter">
70                 <option value="">All Status</option>
71                 <option value="To Read">To Read</option>
72                 <option value="Reading">Reading</option>
73                 <option value="Finished">Finished</option>
74             </select>
75         </div>
76
77         <!-- Quick Actions -->
78         <div class="mt-5">
79             <h6 class="text-light mb-3">Quick Actions</h6>
80             <div class="d-grid gap-2">
81                 <button class="btn btn-outline-light btn-sm" id="favoritesBtn">
82                     <i class="fas fa-heart me-2"></i>View Favorites
83                 </button>
84                 <button class="btn btn-outline-light btn-sm" id="libraryBtn">
85                     <i class="fas fa-book me-2"></i>My Library
86                 </button>
87             </div>
88         </div>
89     </div>
90 </div>
91
92     <!-- Main Content -->
93     <div class="col-lg-9 col-md-8 main-content">
94         <!-- Library View -->
95         <div id="libraryView" class="view-section">
96             <div class="p-4">
97                 <div class="d-flex justify-content-between align-items-center mb-4">
98                     <div>
99                         <h2 class="text-light mb-2">Your Library</h2>
100                         <p class="text-muted" id="bookCount">6 books available</p>
101                     </div>
102                 </div>
103
104                 <div class="row" id="booksGrid">
105                     <!-- Books will be populated by JavaScript -->
106                 </div>
107             </div>
108         </div>
109
110         <!-- Book Detail View -->
111         <div id="bookDetailView" class="view-section d-none">
112             <div class="p-4">
113                 <div class="row">
114                     <div class="col-lg-4">
115                         <div class="book-cover-large mb-4">
116                             <img id="detailCover" src="" alt="" class="img-fluid rounded shadow-lg">
117                             <div class="progress mt-3" id="detailProgress" style="display: none;">
118                                 <div class="progress-bar bg-primary" role="progressbar"></div>
119                             </div>
120                         </div>
121
122                         <div class="d-grid gap-2">
123                             <button class="btn btn-primary btn-lg" id="readBookBtn">
124                                 <i class="fas fa-book-open me-2"></i>Start Reading
125                             </button>
126                             <div class="row">
127                                 <div class="col-6">
128                                     <button class="btn btn-outline-danger w-100" id="favoriteBtn">

```

```

129         <i class="fas fa-heart me-1"></i>Favorite
130     </button>
131 </div>
132 <div class="col-6">
133     <button class="btn btn-outline-success w-100" id="libraryToggleBtn">
134         <i class="fas fa-plus me-1"></i>Library
135     </button>
136 </div>
137 </div>
138
139 <select class="form-select bg-navy text-light" id="statusSelect">
140     <option value="To Read">To Read</option>
141     <option value="Reading">Reading</option>
142     <option value="Finished">Finished</option>
143 </select>
144 </div>
145 </div>
146
147 <div class="col-lg-8">
148     <div class="book-details">
149         <h1 class="text-light mb-2" id="detailTitle"></h1>
150         <h4 class="text-muted mb-3" id="detailAuthor"></h4>
151
152         <div class="d-flex align-items-center mb-3">
153             <div class="rating me-3" id="detailRating"></div>
154             <span class="text-muted" id="detailReviews"></span>
155         </div>
156
157         <div class="mb-4">
158             <span class="badge bg-secondary me-2" id="detailStatus"></span>
159             <span class="text-muted" id="detailProgressText"></span>
160         </div>
161
162         <div class="row mb-4">
163             <div class="col-md-6">
164                 <div class="info-item mb-2">
165                     <i class="fas fa-file-alt text-muted me-2"></i>
166                     <span class="text-light">Pages: </span>
167                     <span class="text-muted" id="detailPages"></span>
168                 </div>
169                 <div class="info-item mb-2">
170                     <i class="fas fa-hashtag text-muted me-2"></i>
171                     <span class="text-light">ISBN: </span>
172                     <span class="text-muted" id="detailISBN"></span>
173                 </div>
174                 <div class="info-item mb-2">
175                     <i class="fas fa-globe text-muted me-2"></i>
176                     <span class="text-light">Language: </span>
177                     <span class="text-muted" id="detailLanguage"></span>
178                 </div>
179             </div>
180             <div class="col-md-6">
181                 <div class="info-item mb-2">
182                     <i class="fas fa-calendar text-muted me-2"></i>
183                     <span class="text-light">Published: </span>
184                     <span class="text-muted" id="detailPublished"></span>
185                 </div>
186                 <div class="info-item mb-2">
187                     <i class="fas fa-file text-muted me-2"></i>
188                     <span class="text-light">Format: </span>
189                     <span class="badge" id="detailFormat"></span>
190                 </div>

```



```

191         <div class="info-item mb-2">
192             <span class="text-light">Genre: </span>
193             <span class="badge bg-secondary" id="detailGenre"></span>
194         </div>
195     </div>
196 </div>
197
198     <div class="mb-4">
199         <h3 class="text-light mb-3">Synopsis</h3>
200         <p class="text-muted" id="detailsSynopsis"></p>
201     </div>
202
203     <div class="mb-4">
204         <h5 class="text-light mb-3">Tags</h5>
205         <div id="detailTags"></div>
206     </div>
207 </div>
208 </div>
209 </div>
210 </div>
211 </div>
212
213 <!-- Reader View -->
214 <div id="readerView" class="view-section d-none">
215     <div class="reader-header bg-navy p-3 border-bottom">
216         <div class="d-flex justify-content-between align-items-center">
217             <div class="d-flex align-items-center">
218                 <button class="btn btn-outline-light me-3" id="backToLibraryBtn">
219                     <i class="fas fa-arrow-left"></i>
220                 </button>
221             </div>

```

```

222                 <h5 class="text-light mb-0" id="readerTitle"></h5>
223                 <small class="text-muted" id="readerAuthor"></small>
224             </div>
225         </div>
226         <div class="reader-controls">
227             <button class="btn btn-outline-light me-2" id="contentsBtn">
228                 <i class="fas fa-list"></i>
229             </button>
230             <button class="btn btn-outline-light me-2" id="bookmarkBtn">
231                 <i class="fas fa-bookmark"></i>
232             </button>
233             <button class="btn btn-outline-light" id="settingsBtn">
234                 <i class="fas fa-cog"></i>
235             </button>
236         </div>
237     </div>
238 </div>
239
240 <div class="progress" style="height: 3px;">
241     <div class="progress-bar bg-primary" id="readerProgress" role="progressbar"></div>
242 </div>
243
244 <div class="reader-container d-flex">
245     <!-- Table of Contents -->
246     <div class="contents-panel bg-dark-blue p-4 d-none" id="contentsPanel">
247         <h5 class="text-light mb-4">Table of Contents</h5>
248         <div class="contents-list" id="contentsList">
249             <!-- Contents will be populated by JavaScript -->
250         </div>
251     </div>

```

```

252
253
254 <!-- Reading Area -->
255 <div class="reading-area flex-grow-1 d-flex">
256   <button class="nav-btn nav-prev" id="prevPageBtn">
257     <i class="fas fa-chevron-left"></i>
258   </button>
259
260   <div class="reading-content flex-grow-1 p-5" id="readingContent">
261     <div class="chapter-content">
262       <!-- Content will be populated by JavaScript -->
263     </div>
264   </div>
265
266   <button class="nav-btn nav-next" id="nextPageBtn">
267     <i class="fas fa-chevron-right"></i>
268   </button>
269 </div>
270
271 <!-- Settings Panel -->
272 <div class="settings-panel bg-dark-blue p-4 d-none" id="settingsPanel">
273   <h5 class="text-light mb-4">Reading Settings</h5>
274
275   <div class="mb-4">
276     <label class="form-label text-light">Font Size</label>
277     <div class="d-flex align-items-center">
278       <button class="btn btn-outline-light btn-sm me-2" id="fontSizeDown">
279         <i class="fas fa-minus"></i>
280       </button>
281       <span class="text-light mx-2" id="fontSizeDisplay">16px</span>
282       <button class="btn btn-outline-light btn-sm ms-2" id="fontSizeUp">

```

```

283         <i class="fas fa-plus"></i>
284       </button>
285     </div>
286   </div>
287
288   <div class="mb-4">
289     <label class="form-label text-light">Font Family</label>
290     <select class="form-select bg-navy text-light" id="FontFamilySelect">
291       <option value="serif">Serif</option>
292       <option value="sans-serif">Sans Serif</option>
293       <option value="monospace">Monospace</option>
294     </select>
295   </div>
296
297   <div class="mb-4">
298     <label class="form-label text-light">Theme</label>
299     <div class="row g-2">
300       <div class="col-4">
301         <button class="btn btn-outline-light w-100 theme-btn" data-theme="light">
302           <i class="fas fa-sun mb-1 d-block"></i>
303           <small>Light</small>
304         </button>
305       </div>
306       <div class="col-4">
307         <button class="btn btn-primary w-100 theme-btn" data-theme="dark">
308           <i class="fas fa-moon mb-1 d-block"></i>
309           <small>Dark</small>
310         </button>
311       </div>
312       <div class="col-4">
313         <button class="btn btn-outline-light w-100 theme-btn" data-theme="sepia">

```

```

314         <small>Sepia</small>
315     </button>
316 </div>
317 </div>
318 </div>
319
320     <div class="mb-4">
321         <label class="form-label text-light">Line Height</label>
322         <input type="range" class="form-range" min="1.2" max="2.0" step="0.1"
323             value="1.6" id="lineHeightRange">
324         <div class="text-center text-light small" id="lineHeightDisplay">1.6x</div>
325     </div>
326 </div>
327 </div>
328
329     <div class="reader-footer bg-navy p-3 border-top">
330         <div class="d-flex justify-content-between align-items-center text-light">
331             <div>Page <span id="currentPage">1</span> of <span id="totalPages">100</span></div>
332             <div><span id="readingProgress">0</span>% complete</div>
333             <div><span id="readerFormat">EPUB</span> • <span id="readerPages">300</span> pages</div>
334         </div>
335     </div>
336 </div>
337 </div>
338 </div>
339 </div>
340
341 <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle.min.js"></script>
342 <script src="script.js"></script>
343 </body>
344 </html>

```

CSS File

```

ebookindex.html • JS ebookscript.js 9+ • # ebookstyle.css 2 •
CIA 3 HTML > # ebookstyle.css > ⚙️ -webkit-scrollbar-thumb:ho
1  /* Custom Dark Blue Theme */
2  :root {
3      --navy-dark: #0f172a;
4      --navy-medium: #1e293b;
5      --navy-light: #334155;
6      --blue-primary: #3b82f6;
7      --blue-secondary: #1d4ed8;
8  }
9
10 body {
11     background-color: var(--navy-dark);
12     color: #e2e8f0;
13     font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
14     padding-top: 76px;
15 }
16
17 /* Custom Background Classes */
18 .bg-navy {
19     background-color: var(--navy-medium) !important;
20 }
21
22 .bg-dark-blue {
23     background-color: var(--navy-light) !important;
24 }
25
26 /* Navigation */
27 .navbar {
28     box-shadow: 0 2px 10px rgba(0, 0, 0, 0.3);
29     z-index: 1050;
30 }
31
32 .navbar-brand {
33     font-weight: 600;
34     font-size: 1.5rem;
35 }
36

```

```

37  /* Sidebar */
38  .sidebar {
39    position: fixed;
40    top: 76px;
41    left: -100%;
42    height: calc(100vh - 76px);
43    width: 300px;
44    transition: left 0.3s ease;
45    z-index: 1040;
46    overflow-y: auto;
47  }
48
49  .sidebar.show {
50    left: 0;
51  }
52
53  .sidebar-content {
54    padding-top: 1rem;
55  }
56
57  /* Main Content */
58  .main-content {
59    margin-left: 0;
60    min-height: calc(100vh - 76px);
61    transition: margin-left 0.3s ease;
62  }
63
64  @media (min-width: 992px) {
65    .sidebar {
66      position: relative;
67      top: 0;
68      left: 0;
69      height: calc(100vh - 76px);
70    }
71

```

```

72    .main-content {
73      margin-left: 0;
74    }
75  }
76
77  /* Form Controls */
78  .form-control:focus,
79  .form-select:focus {
80    border-color: var(--blue-primary);
81    box-shadow: 0 0 0.2rem rgba(59, 130, 246, 0.25);
82  }
83
84  .form-control::placeholder {
85    color: #9da3b8;
86  }
87
88  /* Book Cards */
89  .book-card {
90    background: var(--navy-medium);
91    border: 1px solid var(--navy-light);
92    border-radius: 12px;
93    transition: all 0.3s ease;
94    overflow: hidden;
95  }
96
97  .book-card:hover {
98    border-color: var(--blue-primary);
99    box-shadow: 0 8px 25px rgba(59, 130, 246, 0.15);
100    transform: translateY(-2px);
101  }
102
103  .book-cover {
104    position: relative;
105    aspect-ratio: 3/4;
106    overflow: hidden;
107  }

```

```

108
109 .book-cover img {
110   width: 100%;
111   height: 100%;
112   object-fit: cover;
113   transition: transform 0.3s ease;
114 }
115
116 .book-card:hover .book-cover img {
117   transform: scale(1.05);
118 }
119
120 .book-overlay {
121   position: absolute;
122   top: 0;
123   left: 0;
124   right: 0;
125   bottom: 0;
126   background: linear-gradient(to bottom, transparent 0%, rgba(0, 0, 0, 0.7) 100%);
127 }
128
129 .book-actions {
130   position: absolute;
131   top: 10px;
132   right: 10px;
133   display: flex;
134   gap: 8px;
135 }
136
137 .book-actions .btn {
138   width: 36px;
139   height: 36px;
140   border-radius: 50%;
141   display: flex;
142   align-items: center;
143   justify-content: center;

```

```

144   backdrop-filter: blur(10px);
145   background: rgba(0, 0, 0, 0.3);
146   border: none;
147   color: #e2e8f0;
148   transition: all 0.3s ease;
149 }
150
151 .book-actions .btn:hover {
152   background: var(--blue-primary);
153   color: white;
154 }
155
156 .book-actions .btn.active {
157   background: var(--blue-primary);
158   color: white;
159 }
160
161 .book-progress {
162   position: absolute;
163   bottom: 0;
164   left: 0;
165   right: 0;
166   height: 4px;
167   background: rgba(0, 0, 0, 0.3);
168 }
169
170 .book-progress .progress-bar {
171   background: var(--blue-primary);
172 }
173
174 .book-info {
175   padding: 1.25rem;
176 }
177

```

```

178 .book-title {
179   font-size: 1.1rem;
180   font-weight: 600;
181   color: #f8faff;
182   margin-bottom: 0.5rem;
183   line-height: 1.3;
184   display: -webkit-box;
185   -webkit-line-clamp: 2;
186   -webkit-box-orient: vertical;
187   overflow: hidden;
188 }
189
190 .book-author {
191   color: #94a3b8;
192   font-size: 0.9rem;
193   margin-bottom: 0.75rem;
194 }
195
196 .book-description {
197   color: #c9d5e1;
198   font-size: 0.85rem;
199   line-height: 1.4;
200   margin-bottom: 1rem;
201   display: -webkit-box;
202   -webkit-line-clamp: 2;
203   -webkit-box-orient: vertical;
204   overflow: hidden;
205 }
206
207 .rating {
208   display: flex;
209   align-items: center;
210   gap: 0.25rem;
211   margin-bottom: 0.75rem;
212 }
213

```

```

214 .rating .fa-star {
215   color: #fbbf24;
216   font-size: 0.85rem;
217 }
218
219 .rating-text {
220   color: #e2e8f0;
221   font-size: 0.85rem;
222   margin-left: 0.5rem;
223 }
224
225 .rating-reviews {
226   color: #64748b;
227   font-size: 0.75rem;
228   margin-left: 0.5rem;
229 }
230
231 /* Badges */
232 .status-badge {
233   font-size: 0.75rem;
234   padding: 0.25rem 0.5rem;
235   border-radius: 12px;
236 }
237
238 .status-to-read {
239   background: var(--navy-light);
240   color: #94a3b8;
241 }
242
243 .status-reading {
244   background: rgba(59, 130, 246, 0.2);
245   color: #60a5fa;
246 }
247
248 .status-finished {
249   background: rgba(34, 197, 94, 0.2);
250   color: #4ade80;

```

```

251 }
252
253 .format-epub {
254   background: rgba(147, 51, 234, 0.2);
255   color: #a855f7;
256 }
257
258 .format-pdf {
259   background: rgba(249, 115, 22, 0.2);
260   color: #fb923c;
261 }
262
263 /* Book Detail View */
264 .book-cover-large {
265   max-width: 300px;
266   margin: 0 auto;
267 }
268
269 .book-cover-large img {
270   border-radius: 12px;
271   box-shadow: 0 10px 30px rgba(0, 0, 0, 0.3);
272 }
273
274 .info-item {
275   display: flex;
276   align-items: center;
277   font-size: 0.9rem;
278 }
279
280 /* Reader View */
281 .reader-header {
282   position: sticky;
283   top: 0;
284   z-index: 1030;
285 }
286

```

```

287 .reader-container {
288   height: calc(100vh - 200px);
289 }
290
291 .contents-panel,
292 .settings-panel {
293   width: 300px;
294   height: 100%;
295   overflow-y: auto;
296   border-right: 1px solid var(--navy-light);
297 }
298
299 .settings-panel {
300   border-left: 1px solid var(--navy-light);
301   border-right: none;
302 }
303
304 .contents-list .btn {
305   text-align: left;
306   border: none;
307   background: transparent;
308   color: #acbd5e;
309   padding: 0.75rem 1rem;
310   border-radius: 8px;
311   margin-bottom: 0.5rem;
312   width: 100%;
313   transition: all 0.3s ease;
314 }
315
316 .contents-list .btn:hover,
317 .contents-list .btn.active {
318   background: var(--blue-primary);
319   color: white;
320 }
321

```



```

322 .reading-area {
323   position: relative;
324 }
325
326 .nav-btn {
327   width: 60px;
328   background: transparent;
329   border: none;
330   color: #64748b;
331   font-size: 1.5rem;
332   transition: all 0.3s ease;
333   display: flex;
334   align-items: center;
335   justify-content: center;
336 }
337
338 .nav-btn:hover:not(:disabled) {
339   color: var(--blue-primary);
340   background: rgba(59, 130, 246, 0.1);
341 }
342
343 .nav-btn:disabled {
344   opacity: 0.3;
345   cursor: not-allowed;
346 }
347
348 .reading-content {
349   max-width: 800px;
350   margin: 0 auto;
351   line-height: 1.6;
352   font-size: 16px;
353   font-family: Georgia, serif;
354 }
355
356 .chapter-content {
357   color: #e2e8f0;
358 }

```

```

359
360 .chapter-content h1,
361 .chapter-content h2,
362 .chapter-content h3 {
363   color: #f8fafc;
364   margin-bottom: 1.5rem;
365 }
366
367 .chapter-content p {
368   margin-bottom: 1.5rem;
369   text-align: justify;
370 }
371
372 /* Reading Themes */
373 .reading-content.theme-light {
374   background: #ffffff;
375   color: #1f2937;
376 }
377
378 .reading-content.theme-light .chapter-content {
379   color: #1f2937;
380 }
381
382 .reading-content.theme-light .chapter-content h1,
383 .reading-content.theme-light .chapter-content h2,
384 .reading-content.theme-light .chapter-content h3 {
385   color: #111827;
386 }
387
388 .reading-content.theme-sepia {
389   background: #fef7ed;
390   color: #92400e;
391 }
392
393 .reading-content.theme-sepia .chapter-content {
394   color: #92400e;

```



```

395 }
396
397 .reading-content.theme-sepia .chapter-content h1,
398 .reading-content.theme-sepia .chapter-content h2,
399 .reading-content.theme-sepia .chapter-content h3 {
400   color: #78350f;
401 }
402
403 .reader-footer {
404   position: sticky;
405   bottom: 0;
406   font-size: 0.85rem;
407 }
408
409 /* Settings Panel */
410 .theme-btn {
411   padding: 0.75rem 0.5rem;
412   font-size: 0.8rem;
413 }
414
415 .sepia-icon {
416   width: 16px;
417   height: 16px;
418   background: #d97706;
419   border-radius: 50%;
420   margin: 0 auto;
421 }
422
423 .form-range {
424   accent-color: var(--blue-primary);
425 }
426
427 /* Responsive Design */
428 @media (max-width: 991.98px) {
429   .sidebar {
430     box-shadow: 2px 0 10px rgba(0, 0, 0, 0.3);

```

```

431   }
432
433   .main-content {
434     padding-left: 0;
435   }
436
437   .contents-panel,
438   .settings-panel {
439     position: absolute;
440     top: 0;
441     right: 0;
442     z-index: 1020;
443     box-shadow: -2px 0 10px rgba(0, 0, 0, 0.3);
444   }
445
446   .settings-panel {
447     right: 0;
448   }
449 }
450
451 @media (max-width: 767.98px) {
452   .book-card {
453     margin-bottom: 1.5rem;
454   }
455
456   .reader-container {
457     height: calc(100vh - 160px);
458   }
459
460   .nav-btn {
461     width: 40px;
462     font-size: 1.2rem;
463   }
464
465   .reading-content {

```

```

466         padding: 1rem;
467         font-size: 14px;
468     }
469
470     .contents-panel,
471     .settings-panel {
472         width: 280px;
473     }
474 }
475
476 /* Animations */
477 @keyframes fadeIn {
478     from {
479         opacity: 0;
480         transform: translateY(20px);
481     }
482     to {
483         opacity: 1;
484         transform: translateY(0);
485     }
486 }
487
488 .view-section {
489     animation: fadeIn 0.3s ease;
490 }
491
492 /* Scrollbar Styling */
493 ::-webkit-scrollbar {
494     width: 8px;
495 }
496
497 ::-webkit-scrollbar-track {
498     background: var(--navy-medium);
499 }
500

```

```

500
501 ::-webkit-scrollbar-thumb {
502     background: var(--navy-light);
503     border-radius: 4px;
504 }
505
506 ::-webkit-scrollbar-thumb:hover {
507     background: #475569;
508 }

```

Javascript File

```

ebookindex.html • JS ebookscriptjs 9+ • # ebookstyle.css 2 •
CIA 3 HTML > JS ebookscriptjs > [0] books
1 // Sample book data
2 const books = [
3     {
4         id: '1',
5         title: 'The Great Gatsby',
6         author: 'F. Scott Fitzgerald',
7         cover: 'https://images.pexels.com/photos/1261180/pexels-photo-1261180.jpeg?auto=compress&cs=tinysrgb&w=300&h=400&fit=crop',
8         description: 'A classic American novel set in the Jazz Age',
9         genre: 'Classic Literature',
10        language: 'English',
11        format: 'EPUB',
12        pages: 180,
13        isbn: '9780743273565',
14        rating: 4.2,
15        reviews: 1250,
16        synopsis: 'Set in the summer of 1922, The Great Gatsby follows Nick Carraway, a young bond salesman who moves to West Egg, Long Island. There, he becomes neighbors with the mysterious millionaire Jay Gatsby, who throws lavish parties in hopes of attracting his lost love, Daisy Buchanan.',
17        readingStatus: 'To Read',
18        progress: 0,
19        isFavorite: false,
20        inLibrary: true,
21        tags: ['classic', 'american', 'drama'],
22        publishedDate: '1925-04-10'
23    },
24
25    {
26        id: '2',
27        title: 'Dune',
28        author: 'Frank Herbert',
29        cover: 'https://images.pexels.com/photos/2128249/pexels-photo-2128249.jpeg?auto=compress&cs=tinysrgb&w=300&h=400&fit=crop',
30        description: 'Epic science fiction novel about power, religion, and ecology',
31        genre: 'Science Fiction',
32        language: 'English',
33        format: 'PDF',
34        pages: 688,
35        isbn: '9780441172719',
36        rating: 4.6,
37        reviews: 2100,

```

```

37     synopsis: 'Set in the distant future amidst a feudal interstellar society, Dune tells the story of young Paul Atreides as his family accepts control of the
38     desert planet Arrakis, the only source of the spice melange, the most important substance in the universe.',
39     readingStatus: 'Reading',
40     progress: 35,
41     isFavorite: true,
42     inlibrary: true,
43     tags: ['sci-fi', 'epic', 'space'],
44     publishedDate: '1965-08-01'
45 },
46 {
47     id: '3',
48     title: 'Pride and Prejudice',
49     author: 'Jane Austen',
50     cover: 'https://images.pexels.com/photos/1130980/pexels-photo-1130980.jpeg?auto=compress&cs=tinysrgb&w=300&h=400&fit=crop',
51     description: 'Romantic novel about manners, upbringing, and marriage',
52     genre: 'Romance',
53     language: 'English',
54     format: 'EPUB',
55     pages: 432,
56     isbn: '9780141439518',
57     rating: 4.3,
58     reviews: 1890,
59     synopsis: 'Pride and Prejudice follows the turbulent relationship between Elizabeth Bennet, the daughter of a country gentleman, and Fitzwilliam Darcy, a rich
60     aristocratic landowner.',
61     readingStatus: 'Finished',
62     progress: 100,
63     isFavorite: true,
64     inlibrary: true,
65     tags: ['romance', 'classic', 'british'],
66     publishedDate: '1813-01-28'
67 },
68 {
69     id: '4',
70     title: '1984',
71     author: 'George Orwell',

```

```

70     cover: 'https://images.pexels.com/photos/2041540/pexels-photo-2041540.jpeg?auto=compress&cs=tinysrgb&w=300&h=400&fit=crop',
71     description: 'Dystopian novel about totalitarian surveillance',
72     genre: 'Dystopian Fiction',
73     language: 'English',
74     format: 'PDF',
75     pages: 328,
76     isbn: '9780451524935',
77     rating: 4.5,
78     reviews: 3200,
79     synopsis: 'Set in Airstrip One, a province of the superstate Oceania, 1984 follows Winston Smith, a diligent and skillful rank-and-file worker who secretly
80     hates the Party and dreams of rebellion.',
81     readingStatus: 'To Read',
82     progress: 0,
83     isFavorite: false,
84     inlibrary: false,
85     tags: ['dystopian', 'political', 'classic'],
86     publishedDate: '1949-06-08'
87 },
88 {
89     id: '5',
90     title: 'The Hobbit',
91     author: 'J.R.R. Tolkien',
92     cover: 'https://images.pexels.com/photos/1130623/pexels-photo-1130623.jpeg?auto=compress&cs=tinysrgb&w=300&h=400&fit=crop',
93     description: 'Fantasy adventure of Bilbo Baggins',
94     genre: 'Fantasy',
95     language: 'English',
96     format: 'EPUB',
97     pages: 366,
98     isbn: '9780547928227',
99     rating: 4.4,
100    reviews: 2800,
101    synopsis: 'Bilbo Baggins is a hobbit who enjoys a comfortable, unambitious life. But his contentment is disturbed when the wizard Gandalf and a company of
    dwarves arrive on his doorstep to whisk him away on an adventure.',

```

```

101     readingStatus: 'Reading',
102     progress: 60,
103     isFavorite: true,
104     inLibrary: true,
105     tags: ['fantasy', 'adventure', 'classic'],
106     publishedDate: '1937-09-21'
107   },
108   {
109     id: '6',
110     title: 'To Kill a Mockingbird',
111     author: 'Harper Lee',
112     cover: 'https://images.pexels.com/photos/1130621/pexels-photo-1130621.jpeg?auto=compress&cs=tinysrgb&w=300&h=400&fit=crop',
113     description: 'A story of racial injustice and childhood innocence',
114     genre: 'Literary Fiction',
115     language: 'English',
116     format: 'PDF',
117     pages: 281,
118     isbn: '9780060935467',
119     rating: 4.1,
120     reviews: 1560,
121     synopsis: 'Set in the fictional town of Maycomb, Alabama, during the 1930s, the story is narrated by Jean Louise "Scout" Finch, who recounts her childhood experiences and her father\'s defense of a black man falsely accused of rape.',
122     readingStatus: 'To Read',
123     progress: 0,
124     isFavorite: false,
125     inLibrary: true,
126     tags: ['literary', 'social', 'american'],
127     publishedDate: '1960-07-11'
128   }
129 ];
130
131 // Application state
132 let currentView = 'library';
133 let selectedBookId = null;
134 let filteredBooks = [...books];

```

```

135 let currentPage = 1;
136 let totalPages = 100;
137 let readerSettings = {
138   fontSize: 16,
139   fontFamily: 'serif',
140   theme: 'dark',
141   lineHeight: 1.6
142 };
143
144 // DOM elements
145 const sidebar = document.getElementById('sidebar');
146 const sidebarToggle = document.getElementById('sidebarToggle');
147 const searchInput = document.getElementById('searchInput');
148 const genreFilter = document.getElementById('genreFilter');
149 const formatFilter = document.getElementById('formatFilter');
150 const statusFilter = document.getElementById('statusFilter');
151 const booksGrid = document.getElementById('booksGrid');
152 const bookCount = document.getElementById('bookCount');
153
154 // View elements
155 const libraryView = document.getElementById('libraryView');
156 const bookDetailView = document.getElementById('bookDetailView');
157 const readerView = document.getElementById('readerView');
158
159 // Initialize the application
160 document.addEventListener('DOMContentLoaded', function() {
161   initializeApp();
162   setupEventListeners();
163   renderBooks();
164 });
165
166 function initializeApp() {
167   // Set initial view
168   showView('library');
169 }

```

```

170 // Initialize filters
171 updateBookCount();
172 }
173
174 function setupEventListeners() {
175 // Sidebar toggle
176 sidebarToggle.addEventListener('click', toggleSidebar);
177
178 // Search and filters
179 searchInput.addEventListener('input', handleSearch);
180 genreFilter.addEventListener('change', handlerFilter);
181 formatFilter.addEventListener('change', handlerFilter);
182 statusFilter.addEventListener('change', handlerFilter);
183
184 // Quick actions
185 document.getElementById('favoritesBtn').addEventListener('click', () => filterByFavorites());
186 document.getElementById('libraryBtn').addEventListener('click', () => filterByLibrary());
187
188 // Book detail actions
189 document.getElementById('readBookBtn').addEventListener('click', () => openReader(selectedBookId));
190 document.getElementById('favoriteBtn').addEventListener('click', () => toggleFavorite(selectedBookId));
191 document.getElementById('libraryToggleBtn').addEventListener('click', () => toggleLibrary(selectedBookId));
192 document.getElementById('statusSelect').addEventListener('change', handleStatusChange);
193
194 // Reader controls
195 document.getElementById('backToLibraryBtn').addEventListener('click', () => showView('library'));
196 document.getElementById('contentsBtn').addEventListener('click', toggleContents);
197 document.getElementById('settingsBtn').addEventListener('click', toggleSettings);
198 document.getElementById('prevPageBtn').addEventListener('click', previousPage);
199 document.getElementById('nextPageBtn').addEventListener('click', nextPage);
200
201 // Reader settings
202 document.getElementById('fontSizeDown').addEventListener('click', () => adjustFontSize(-1));
203 document.getElementById('fontSizeUp').addEventListener('click', () => adjustFontSize(1));
204 document.getElementById('fontFamilySelect').addEventListener('change', changeFontFamily);

```

```

205 document.getElementById('lineHeightRange').addEventListener('input', changeLineHeight);
206
207 // Theme buttons
208 document.querySelectorAll('.theme-btn').forEach(btn => {
209   btn.addEventListener('click', () => changeTheme(btn.dataset.theme));
210 });
211
212 // Close sidebar when clicking outside on mobile
213 document.addEventListener('click', function(e) {
214   if (window.innerWidth < 992 && sidebar.classList.contains('show')) {
215     if (!sidebar.contains(e.target) && !sidebarToggle.contains(e.target)) {
216       sidebar.classList.remove('show');
217     }
218   }
219 });
220 }
221
222 function toggleSidebar() {
223   sidebar.classList.toggle('show');
224 }
225
226 function showView(view) {
227 // Hide all views
228 libraryView.classList.add('d-none');
229 bookDetailView.classList.add('d-none');
230 readerView.classList.add('d-none');
231
232 // Show selected view
233 switch(view) {
234   case 'library':
235     libraryView.classList.remove('d-none');
236     currentView = 'library';
237     break;
238   case 'detail':
239     bookDetailView.classList.remove('d-none');

```

```

240     currentView = 'detail';
241     break;
242   case 'reader':
243     readerView.classList.remove('d-none');
244     currentView = 'reader';
245     break;
246   }
247 }
248
249 function handleSearch() {
250   applyFilters();
251 }
252
253 function handleFilter() {
254   applyFilters();
255 }
256
257 function applyFilters() {
258   const searchTerm = searchInput.value.toLowerCase();
259   const genre = genreFilter.value;
260   const format = formatFilter.value;
261   const status = statusFilter.value;
262
263   filteredBooks = books.filter(book => {
264     const matchesSearch = searchTerm === '' ||
265       book.title.toLowerCase().includes(searchTerm) ||
266       book.author.toLowerCase().includes(searchTerm) ||
267       book.isbn.includes(searchTerm);
268
269     const matchesGenre = genre === '' || book.genre === genre;
270     const matchesFormat = format === '' || book.format === format;
271     const matchesStatus = status === '' || book.readingStatus === status;
272
273     return matchesSearch && matchesGenre && matchesFormat && matchesStatus;
274   });
275

```

```

276   renderBooks();
277   updateBookCount();
278 }
279
280 function filterByFavorites() {
281   filteredBooks = books.filter(book => book.isFavorite);
282   renderBooks();
283   updateBookCount();
284 }
285
286 function filterByLibrary() {
287   filteredBooks = books.filter(book => book.inLibrary);
288   renderBooks();
289   updateBookCount();
290 }
291
292 function updateBookCount() {
293   const count = filteredBooks.length;
294   bookCount.textContent = `${count} ${count === 1 ? 'book' : 'books'} available;
295 }
296
297 function renderBooks() {
298   booksGrid.innerHTML = '';
299
300   if (filteredBooks.length === 0) {
301     booksGrid.innerHTML = `
302       <div class="col-12 text-center py-5">
303         <div class="text-muted">
304           <i class="fas fa-book-open fa-3x mb-3 opacity-50"></i>
305           <h5>No books found</h5>
306           <p>Try adjusting your search or filters</p>
307         </div>
308       `;
309   }
310   return;
311 }

```



```

312
313     filteredBooks.forEach(book => {
314         const bookCard = createBookCard(book);
315         booksGrid.appendChild(bookCard);
316     });
317 }
318
319 function createBookCard(book) {
320     const col = document.createElement('div');
321     col.className = 'col-lg-3 col-md-4 col-sm-6 mb-4';
322
323     const statusClass = status-${book.readingStatus.toLowerCase().replace(' ', '-')};
324     const formatClass = format-${book.format.toLowerCase()};
325
326     col.innerHTML = `
327         <div class="book-card h-100">
328             <div class="book-cover">
329                 
330                 <div class="book-overlay"></div>
331
332                 ${book.readingStatus === 'Reading' && book.progress > 0 ? `
333                     <div class="book-progress">
334                         <div class="progress-bar" style="width: ${book.progress}%></div>
335                     </div>
336                 ` : ''}
337
338                 <div class="book-actions">
339                     <button class="btn ${book.isFavorite ? 'active' : ''}" onclick="toggleFavorite('${book.id}')">
340                         <i class="fas fa-heart"></i>
341                     </button>
342                     <button class="btn ${book.inLibrary ? 'active' : ''}" onclick="toggleLibrary('${book.id}')">
343                         <i class="fas fa-plus"></i>
344                     </button>
345                 </div>
346             </div>
347

```

```

348             <div class="book-info">
349                 <h5 class="book-title">${book.title}</h5>
350                 <p class="book-author">by ${book.author}</p>
351                 <p class="book-description">${book.description}</p>
352
353                 <div class="rating mb-3">
354                     ${generateStars(book.rating)}
355                     <span class="rating-text">${book.rating}</span>
356                     <span class="rating-reviews">(${book.reviews} reviews)</span>
357                 </div>
358
359                 <div class="d-flex justify-content-between align-items-center mb-3">
360                     <span class="badge status-badge ${statusClass}>${book.readingStatus}</span>
361                     <span class="badge ${formatClass}>${book.format}</span>
362                     <small class="text-muted">${book.pages} pages</small>
363                 </div>
364
365                 <div class="d-grid gap-2">
366                     <div class="row g-2">
367                         <div class="col-6">
368                             <button class="btn btn-outline-light btn-sm w-100" onclick="viewBookDetail('${book.id}')">
369                                 <i class="fas fa-eye me-1"></i>Details
370                             </button>
371                         </div>
372                         <div class="col-6">
373                             <button class="btn btn-primary btn-sm w-100" onclick="openReader('${book.id}')">
374                                 <i class="fas fa-book-open me-1"></i>Read
375                             </button>
376                         </div>
377                     </div>
378                 </div>
379             </div>
380         </div>
381     `;
382     return col;
383 }
384

```

```

385
386 function generateStars(rating) {
387   let stars = '';
388   for (let i = 1; i <= 5; i++) {
389     if (i <= Math.floor(rating)) {
390       stars += '<i class="fas fa-star"></i>';
391     } else if (i - 0.5 <= rating) {
392       stars += '<i class="fas fa-star-half-alt"></i>';
393     } else {
394       stars += '<i class="far fa-star"></i>';
395     }
396   }
397   return stars;
398 }
399
400 function viewBookDetail(bookId) {
401   selectedBookId = bookId;
402   const book = books.find(b => b.id === bookId);
403
404   if (!book) return;
405
406   // Populate book detail view
407   document.getElementById('detailCover').src = book.cover;
408   document.getElementById('detailCover').alt = book.title;
409   document.getElementById('detailTitle').textContent = book.title;
410   document.getElementById('detailAuthor').textContent = by ${book.author};
411   document.getElementById('detailRating').innerHTML = generateStars(book.rating);
412   document.getElementById('detailReviews').textContent = (${book.reviews} reviews);
413   document.getElementById('detailStatus').textContent = book.readingStatus;
414   document.getElementById('detailStatus').className = badge status-badge status-${book.readingStatus.toLowerCase().replace(' ', '-')};
415   document.getElementById('detailPages').textContent = book.pages;
416   document.getElementById('detailISBN').textContent = book.isbn;
417   document.getElementById('detailLanguage').textContent = book.language;
418   document.getElementById('detailPublished').textContent = new Date(book.publishedDate).getFullYear();
419   document.getElementById('detailFormat').textContent = book.format;
420   document.getElementById('detailFormat').className = badge format-${book.format.toLowerCase()};
421
422   document.getElementById('detailGenre').textContent = book.genre;
423   document.getElementById('detailSynopsis').textContent = book.synopsis;
424
425   // Update progress
426   if (book.readingStatus === 'Reading' && book.progress > 0) {
427     document.getElementById('detailProgress').style.display = 'block';
428     document.getElementById('detailProgress').querySelector('.progress-bar').style.width = ${book.progress}%
429     document.getElementById('detailProgressText').textContent = ${book.progress}% complete;
430   } else {
431     document.getElementById('detailProgress').style.display = 'none';
432     document.getElementById('detailProgressText').textContent = '';
433   }
434
435   // Update buttons
436   document.getElementById('favoriteBtn').classList.toggle('btn-danger', book.isFavorite);
437   document.getElementById('favoriteBtn').classList.toggle('btn-outline-danger', !book.isFavorite);
438   document.getElementById('favoriteBtn').innerHTML = <i class="fas fa-heart me-1"></i>${book.isFavorite ? 'Favorited' : 'Favorite'};
439
440   document.getElementById('libraryToggleBtn').classList.toggle('btn-success', book.inLibrary);
441   document.getElementById('libraryToggleBtn').classList.toggle('btn-outline-success', !book.inLibrary);
442   document.getElementById('libraryToggleBtn').innerHTML = <i class="fas fa-plus me-1"></i>${book.inLibrary ? 'In Library' : 'Add to Library'};
443
444   document.getElementById('statusSelect').value = book.readingStatus;
445
446   document.getElementById('readBookBtn').innerHTML = `
447     <i class="fas fa-book-open me-2"></i>
448     ${book.readingStatus === 'Reading' ? 'Continue Reading' : 'Start Reading'}
449   `;
450
451   // Update tags
452   const tagsContainer = document.getElementById('detailTags');
453   tagsContainer.innerHTML = book.tags.map(tag =>
454     <span class="badge bg-secondary me-2 mb-2">${tag}</span>
455   ).join('');

```



```

456     showView('detail');
457 }
458
459 function openReader(bookId) {
460     selectedBookId = bookId;
461     const book = books.find(b => b.id === bookId);
462
463     if (!book) return;
464
465     // Populate reader view
466     document.getElementById('readerTitle').textContent = book.title;
467     document.getElementById('readerAuthor').textContent = by ${book.author};
468     document.getElementById('readerFormat').textContent = book.format;
469     document.getElementById('readerPages').textContent = book.pages;
470
471     // Initialize reader
472     totalPages = Math.ceil(book.pages / 2);
473     currentPage = Math.max(1, Math.floor((book.progress / 100) * totalPages));
474
475     updateReaderProgress();
476     loadChapterContent();
477     generateTableOfContents();
478
479     showView('reader');
480 }
481
482 function toggleFavorite(bookId) {
483     const book = books.find(b => b.id === bookId);
484     if (book) {
485         book.isFavorite = !book.isFavorite;
486
487         if (currentView === 'library') {
488             renderBooks();
489         } else if (currentView === 'detail' && selectedBookId === bookId) {
490             viewBookDetail(bookId);
491         }
492     }
493 }

```

```

492 }
493 }
494
495 function toggleLibrary(bookId) {
496     const book = books.find(b => b.id === bookId);
497     if (book) {
498         book.inLibrary = !book.inLibrary;
499
500         if (currentView === 'library') {
501             renderBooks();
502         } else if (currentView === 'detail' && selectedBookId === bookId) {
503             viewBookDetail(bookId);
504         }
505     }
506 }
507
508 function handleStatusChange() {
509     const newStatus = document.getElementById('statusSelect').value;
510     const book = books.find(b => b.id === selectedBookId);
511
512     if (book) {
513         book.readingStatus = newStatus;
514         if (newStatus === 'Finished') {
515             book.progress = 100;
516         } else if (newStatus === 'To Read') {
517             book.progress = 0;
518         }
519
520         viewBookDetail(selectedBookId);
521     }
522 }
523
524 // Reader functions
525 function toggleContents() {
526     const panel = document.getElementById('contentsPanel');

```

```

527     panel.classList.toggle('d-none');
528
529     // Hide settings panel if open
530     document.getElementById('settingsPanel').classList.add('d-none');
531 }
532
533 function toggleSettings() {
534     const panel = document.getElementById('settingsPanel');
535     panel.classList.toggle('d-none');
536
537     // Hide contents panel if open
538     document.getElementById('contentsPanel').classList.add('d-none');
539 }
540
541 function previousPage() {
542     if (currentPage > 1) {
543         currentPage--;
544         updateReaderProgress();
545         loadChapterContent();
546         updateBookProgress();
547     }
548 }
549
550 function nextPage() {
551     if (currentPage < totalPages) {
552         currentPage++;
553         updateReaderProgress();
554         loadChapterContent();
555         updateBookProgress();
556     }
557 }
558
559 function updateReaderProgress() {
560     const progress = Math.round((currentPage / totalPages) * 100);
561

```

```

562     document.getElementById('readerProgress').style.width = `${progress}%`;
563     document.getElementById('currentPage').textContent = currentPage;
564     document.getElementById('totalPages').textContent = totalPages;
565     document.getElementById('readingProgress').textContent = progress;
566
567     // Update navigation buttons
568     document.getElementById('prevPageBtn').disabled = currentPage === 1;
569     document.getElementById('nextPageBtn').disabled = currentPage === totalPages;
570 }
571
572 function updateBookProgress() {
573     const book = books.find(b => b.id === selectedBookId);
574     if (book) {
575         book.progress = Math.round((currentPage / totalPages) * 100);
576         if (book.progress > 0 && book.readingStatus === 'To Read') {
577             book.readingStatus = 'Reading';
578         }
579         if (book.progress === 100) {
580             book.readingStatus = 'Finished';
581         }
582     }
583 }
584
585 function loadChapterContent() {
586     const content = document.getElementById('readingContent');
587     const chapterNum = Math.ceil(currentPage / 5);
588
589     // Sample content (in real app, this would load actual book content)
590     const sampleContent = `
591     <div class="chapter-content">
592         <h2>Chapter ${chapterNum}</h2>
593         <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis
594         nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.</p>

```

```

595     <p>buis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident,
596     sunt in culpa qui officia deserunt mollit anim id est laborum.</p>
597
598     <p>Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore
599     veritatis et quasi architecto beatae vitae dicta sunt explicabo.</p>
600
601     <p>Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi
602     nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit.</p>
603
604     <p>At vero eos et accusamus et iusto odio dignissimos ducimus qui blanditiis praesentium voluptatum deleniti atque corrupti quos dolores et quas molestias
605     excepturi sint occaecati cupiditate non provident, similique sunt in culpa qui officia deserunt mollitia animi.</p>
606   </div>
607   ;
608
609   content.innerHTML = sampleContent;
610   applyReaderSettings();
611 }
612
613 function generateTableOfContents() {
614   const contentsList = document.getElementById('contentsList');
615   contentsList.innerHTML = '';
616
617   for (let i = 1; i <= 10; i++) {
618     const btn = document.createElement('button');
619     btn.className = btn ? Math.ceil(currentPage / 5) === i ? 'active' : '';
620     btn.innerHTML = Chapter ${i};
621     btn.onclick = () => goToChapter(i);
622     contentsList.appendChild(btn);
623   }
624 }
625
626 function goToChapter(chapterNum) {
627   currentPage = (chapterNum - 1) * 5 + 1;
628   updateReaderProgress();
629 }
630
631 loadChapterContent();
632 updateBookProgress();
633 generateTableOfContents();
634 }
635
636 // Reader settings
637 function adjustFontSize(delta) {
638   readerSettings.fontSize = Math.max(12, Math.min(24, readerSettings.fontSize + delta));
639   document.getElementById('fontSizeDisplay').textContent = ${readerSettings.fontSize}px;
640   applyReaderSettings();
641 }
642
643 function changeFontFamily() {
644   readerSettings.fontFamily = document.getElementById('fontFamilySelect').value;
645   applyReaderSettings();
646 }
647
648 function changeLineHeight() {
649   readerSettings.lineHeight = parseFloat(document.getElementById('lineHeightRange').value);
650   document.getElementById('lineHeightDisplay').textContent = ${readerSettings.lineHeight}x;
651   applyReaderSettings();
652 }
653
654 function changeTheme(theme) {
655   readerSettings.theme = theme;
656
657   // Update theme buttons
658   document.querySelectorAll('.theme-btn').forEach(btn => {
659     btn.classList.remove('btn-primary');
660     btn.classList.add('btn-outline-light');
661   });
662
663   document.querySelector([data-theme=${theme}]).classList.remove('btn-outline-light');
664   document.querySelector([data-theme=${theme}]).classList.add('btn-primary');
665 }

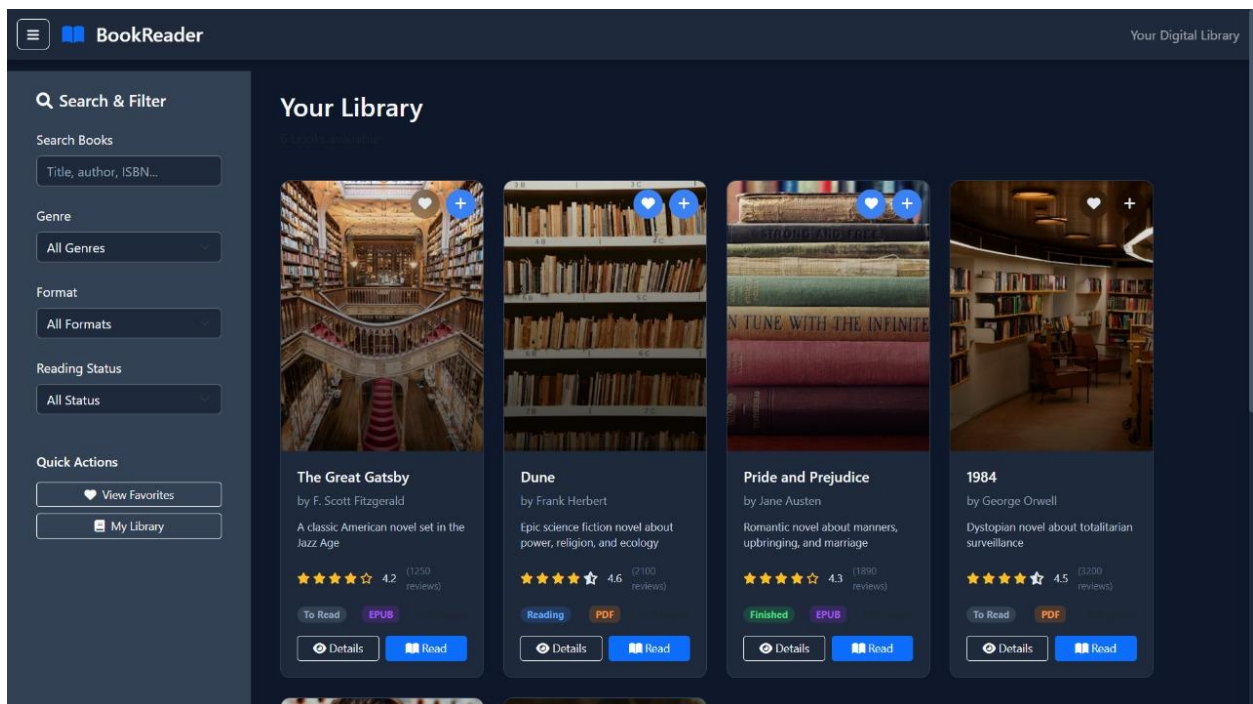
```

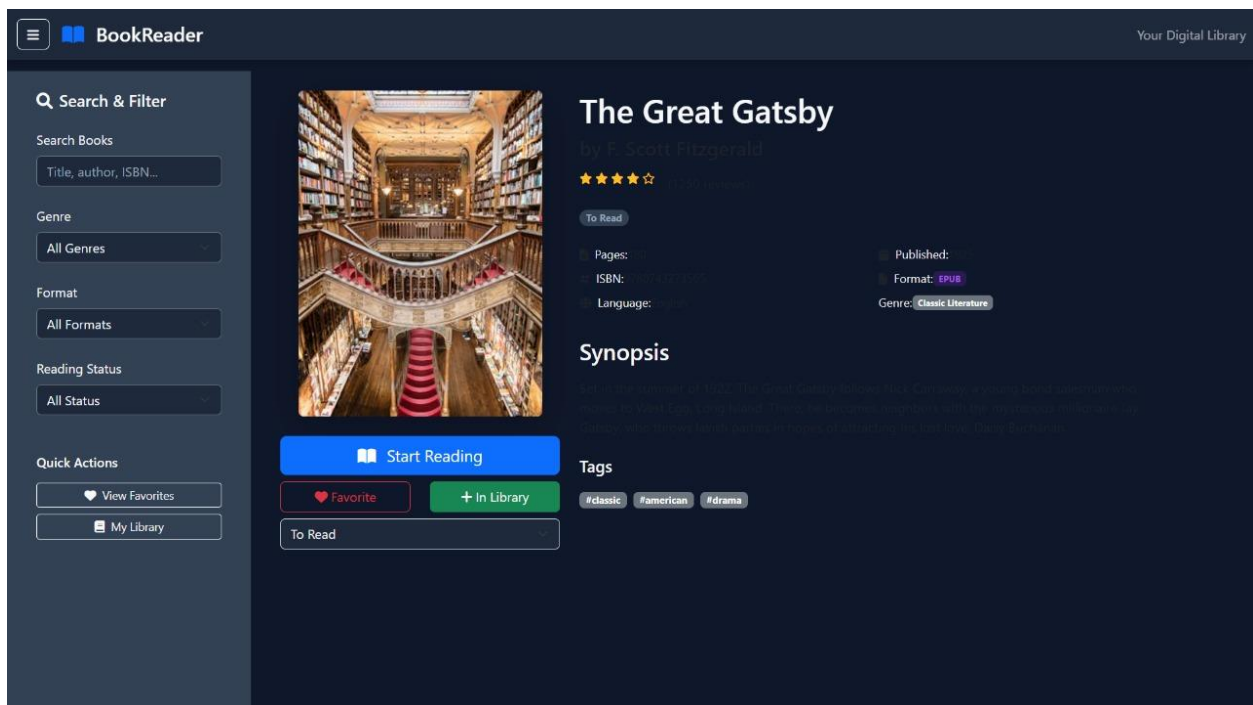
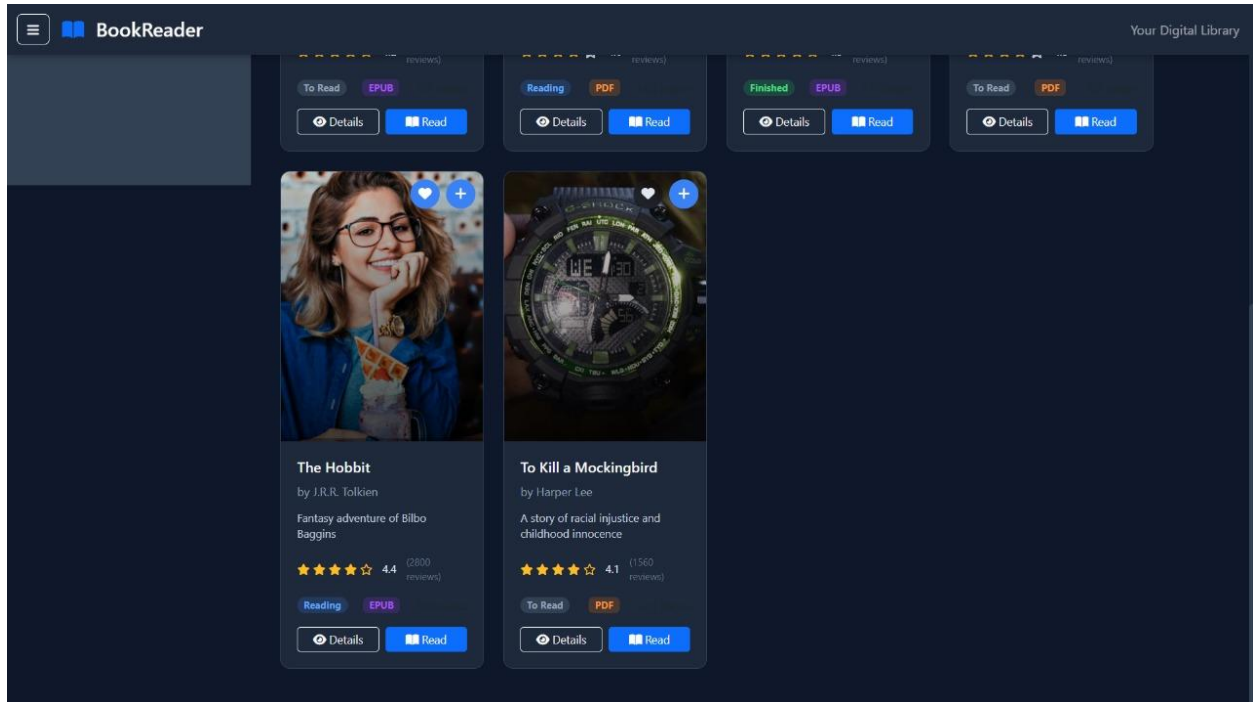
```

660     applyReaderSettings();
661   }
662
663   function applyReaderSettings() {
664     const content = document.getElementById('readingContent');
665
666     content.style.fontSize = ${readerSettings.fontSize}px;
667     content.style.lineHeight = readerSettings.lineHeight;
668
669     // Apply font family
670     switch(readerSettings.fontFamily) {
671       case 'serif':
672         content.style.fontFamily = 'Georgia, serif';
673         break;
674       case 'sans-serif':
675         content.style.fontFamily = 'system-ui, sans-serif';
676         break;
677       case 'monospace':
678         content.style.fontFamily = 'Monaco, monospace';
679         break;
680     }
681
682     // Apply theme
683     content.className = reading-content flex-grow-1 p-5 theme-${readerSettings.theme};
684   }

```

12. Screenshots of Final Output





BookReader

Your Digital Library

Search & Filter

Search Books

Title, author, ISBN...

Genre

All Genres

Format

All Formats

Reading Status

All Status

Quick Actions

View Favorites

My Library

←

The Great Gatsby

Chapter 1

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Page 1 of 90

1% complete

Epub • 180 pages

BookReader

Search & Filter

Search Books

Title, author, ISBN...

Genre

All Genres

Format

All Formats

Reading Status

All Status

Quick Actions

View Favorites

My Library

The Great Gatsby

Chapter 1

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Reading Settings

Font Size

-

16px

+

Font Family

Serif

Theme

Light

Dark

Sepia

Line Height

1.6x

Page 1 of 90

1% complete

EPUB • 180 pages

13) Conclusion

You've built a strong, well-structured front-end for an E-Book Reader Web App with thoughtful UI and reader options. Fixing the JS string/template issues and adding persistence will turn this from a demo into a reliable local app. The current CSS design and HTML structure make it production-friendly once EPUB/PDF integration and backend/persistence are added.

14) References

- Bootstrap 5 docs — layout, forms, responsive grid.
- Font Awesome — icons.
- MDN Web Docs — DOM API, `querySelector`, `classList`, `template literals`, `localStorage`.
- CSS-Tricks — patterns for responsive cards, `-webkit-line-clamp`, and custom scrollbars.
- Epub.js — for rendering EPUB files in-browser (future integration).
- Mozilla PDF.js — for rendering PDF files client-side (future integration).
- Pexels — cover images (you used Pexels images in sample data).