

Anderson's Library - GitHub Pages Deployment

Repository Structure



Deployment Steps

1. Repository Setup

bash

cd BowersWorld-com

git init

git add .


git commit -m "Initial Anderson's Library deployment"

git branch -M main

git remote add origin https://github.com/yourusername/BowersWorld-com.git

git push -u origin main

2. GitHub Pages Configuration

1. Go to repository Settings → Pages
2. Source: Deploy from branch → main
3. Custom domain: bowersworld.com
4. Enforce HTTPS: 

3. DNS Configuration (for bowersworld.com)

CNAME: library.bowersworld.com → yourusername.github.io

A: bowersworld.com → 185.199.108.153

A: bowersworld.com → 185.199.109.153

A: bowersworld.com → 185.199.110.153

A: bowersworld.com → 185.199.111.153

4. Jekyll Configuration (_config.yml)

yaml

```
title: "BowersWorld.com - Anderson's Library"
description: "Digital library platform with AI-powered book management"
url: "https://bowersworld.com"
baseurl: ""
```

```
plugins:
  - jekyll-redirect-from
```

```
collections:
  library:
    output: true
    permalink: /library/:name/
```

```
defaults:
  - scope:
      path: "library"
    values:
      layout: "library"
```

```
exclude:
  - node_modules/
  - .git/
  - .gitignore
  - README.md
```

5. Custom Domain File (CNAME)

bowersworld.com

File Contents

library/js/firebase-config.js

javascript

// Firebase Configuration

```
const firebaseConfig = {  
  apiKey: "your-api-key-here",  
  authDomain: "anderson-library.firebaseio.com",  
  projectId: "anderson-library",  
  storageBucket: "anderson-library.appspot.com",  
  messagingSenderId: "123456789",  
  appId: "your-app-id-here"  
};
```

// Initialize Firebase

```
import { initializeApp } from 'https://www.gstatic.com/firebasejs/10.8.0/firebase-app.js';  
import { getAuth } from 'https://www.gstatic.com/firebasejs/10.8.0/firebase-auth.js';  
  
const app = initializeApp(firebaseConfig);  
export const auth = getAuth(app);  
  
console.log('🔥 Firebase initialized for Anderson\'s Library');
```

library/js/library-data.js

javascript

// Anderson's Library - Book Database

// Auto-generated from AI processing report

// Total: 1,219 books | Categories: 26 | Needs Review: 541

```
const LIBRARY_DATA = {
  metadata: {
    totalBooks: 1219,
    lastUpdated: "2025-06-27T11:18:59.000Z",
    version: "1.0.0",
    source: "AI Library Processing Report",
    averageConfidence: 74.2
  },
  statistics: {
    totalBooks: 1219,
    categorizedBooks: 1219,
    highConfidenceBooks: 678,
    needsReview: 541,
    totalSizeMB: 15420,
    categories: [
      "Programming Languages", "Math", "Physics", "Biology",
      "Electronics", "Engineering", "Reference", "Games",
      "History", "Web Development", "Chemistry", "Medicine",
      "Forensic Science", "Artificial Intelligence"
    ]
  },
  books: [] // Will be populated with processed book data
};

// Make globally available
if (typeof window !== 'undefined') {
  window.LIBRARY_DATA = LIBRARY_DATA;
}
```

library/index.html (Landing Page)


```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Anderson's Library - Digital Collection</title>
  <meta name="description" content="Access thousands of books in Anderson's digital library. Secure, organized, and /
  <link rel="canonical" href="https://bowersworld.com/library/">
  <style>
    /* Optimized landing page styles */
    body {
      background: linear-gradient(135deg, #1e3c72 0%, #2a5298 100%);
      color: white;
      font-family: 'Segoe UI', sans-serif;
      margin: 0;
      min-height: 100vh;
      display: flex;
      flex-direction: column;
    }

    .hero {
      text-align: center;
      padding: 4rem 2rem;
      flex: 1;
      display: flex;
      flex-direction: column;
      justify-content: center;
    }

    .hero h1 {
      font-size: 3rem;
      color: #ffd93d;
      margin-bottom: 1rem;
    }

    .stats {
      display: flex;
      justify-content: center;
      gap: 2rem;
      margin: 2rem 0;
      flex-wrap: wrap;
    }
```

```

.stat {
  background: rgba(255, 255, 255, 0.1);
  padding: 1rem 2rem;
  border-radius: 10px;
  text-align: center;
}

.stat-number {
  font-size: 2rem;
  font-weight: bold;
  color: #ffd93d;
}

.cta-button {
  display: inline-block;
  padding: 1rem 2rem;
  background: #ffd93d;
  color: #1e3c72;
  text-decoration: none;
  border-radius: 10px;
  font-weight: bold;
  font-size: 1.1rem;
  margin: 1rem;
  transition: transform 0.3s ease;
}

.cta-button:hover {
  transform: translateY(-3px);
}
</style>
</head>
<body>
  <div class="hero">
    <h1><img alt="book icon" data-bbox="145 738 165 755"/> Anderson's Library</h1>
    <p>Your gateway to 1,219 carefully curated digital books</p>

    <div class="stats">
      <div class="stat">
        <div class="stat-number">1,219</div>
        <div>Books</div>
      </div>
      <div class="stat">
        <div class="stat-number">26</div>
        <div>Categories</div>
      </div>
    </div>
  </div>

```



```

</div>
<div class="stat">
  <div class="stat-number">15.4</div>
  <div>GB Collection</div>
</div>
</div>

<div>
  <a href="/library/auth/login.html" class="cta-button">🔒 Access Library</a>
  <a href="/library/auth/register.html" class="cta-button">📝 Request Access</a>
</div>

<p style="margin-top: 2rem; opacity: 0.8;">
  Powered by AI • Secured by Firebase • Hosted by GitHub Pages
</p>
</div>

<script>
  console.log('📖 Anderson\'s Library Landing Page Loaded');
  console.log('🚀 Ready for user authentication and access');
</script>
</body>
</html>

```

Deployment Checklist

Pre-Deployment

- ☐ Firebase project created and configured
- ☐ Google Drive folder structure set up
- ☐ Book data processed and converted to JSON
- ☐ Authentication flow tested locally
- ☐ All file paths verified

Deployment

- ☐ Repository created on GitHub
- ☐ Code pushed to main branch
- ☐ GitHub Pages enabled
- ☐ Custom domain configured
- ☐ SSL certificate verified
- ☐ DNS records updated

Post-Deployment

- ☐ Test authentication flow
- ☐ Verify book data loading
- ☐ Test on mobile devices
- ☐ Monitor user registrations
- ☐ Set up analytics tracking

Next Phase: User Management

After successful deployment, implement:

1. Admin Approval Workflow

- Email notifications for new registrations
- Admin dashboard for user management
- Role-based access control

2. Book Access Control

- Download permissions by user level
- Usage analytics and limits
- Offline reading capabilities

3. Content Management

- Book metadata editing
- Cover image management
- Collection organization tools

Support & Monitoring

Analytics Setup

html

<!-- Google Analytics -->

<script async src="https://www.googletagmanager.com/gtag/js?id=GA_MEASUREMENT_ID"></script>

<script>

 window.dataLayer = window.dataLayer || [];

 function gtag(){dataLayer.push(arguments);}

 gtag('js', new Date());

 gtag('config', 'GA_MEASUREMENT_ID');

</script>

Error Monitoring

javascript

```
// Simple error tracking  
window.addEventListener('error', function(e) {  
  console.error('Library Error:', e.error);  
  // Send to monitoring service  
});
```

Ready for deployment! 🚀