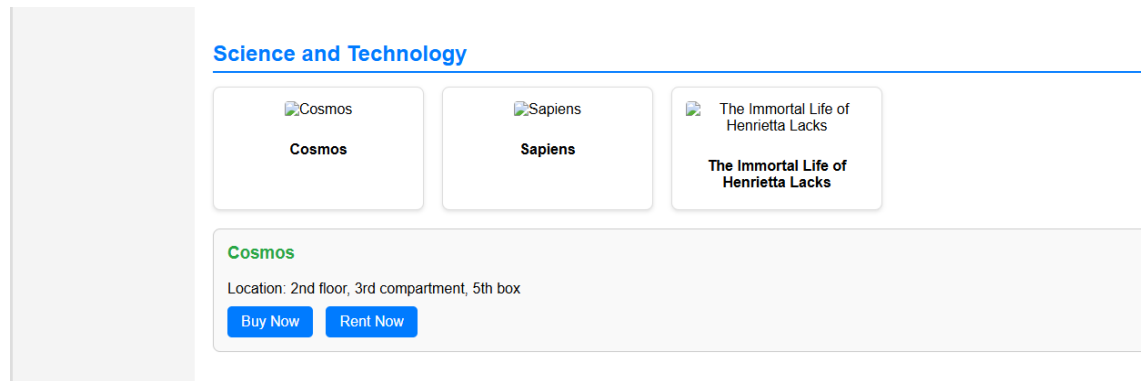


MyBook Web Application

Project Presentation

Project Overview

- A Django-based web app to help users:
 - 🔍 **Locate books** in specific sections/compartments
 - 🛒 **Buy or rent** books
- Designed for **libraries, book archives, or academic centers**



Tech Stack



Layer	Tech Used
Frontend	HTML, CSS, Bootstrap
Backend	Django (Python)
Database	SQLite / PostgreSQL
AI/NLP	Sentence-BERT, OpenAI, spaCy
Deployment	Heroku / PythonAnywhere

Login For MyBook

REMEMBER WHY YOU STARTED...

Login

Create
Account

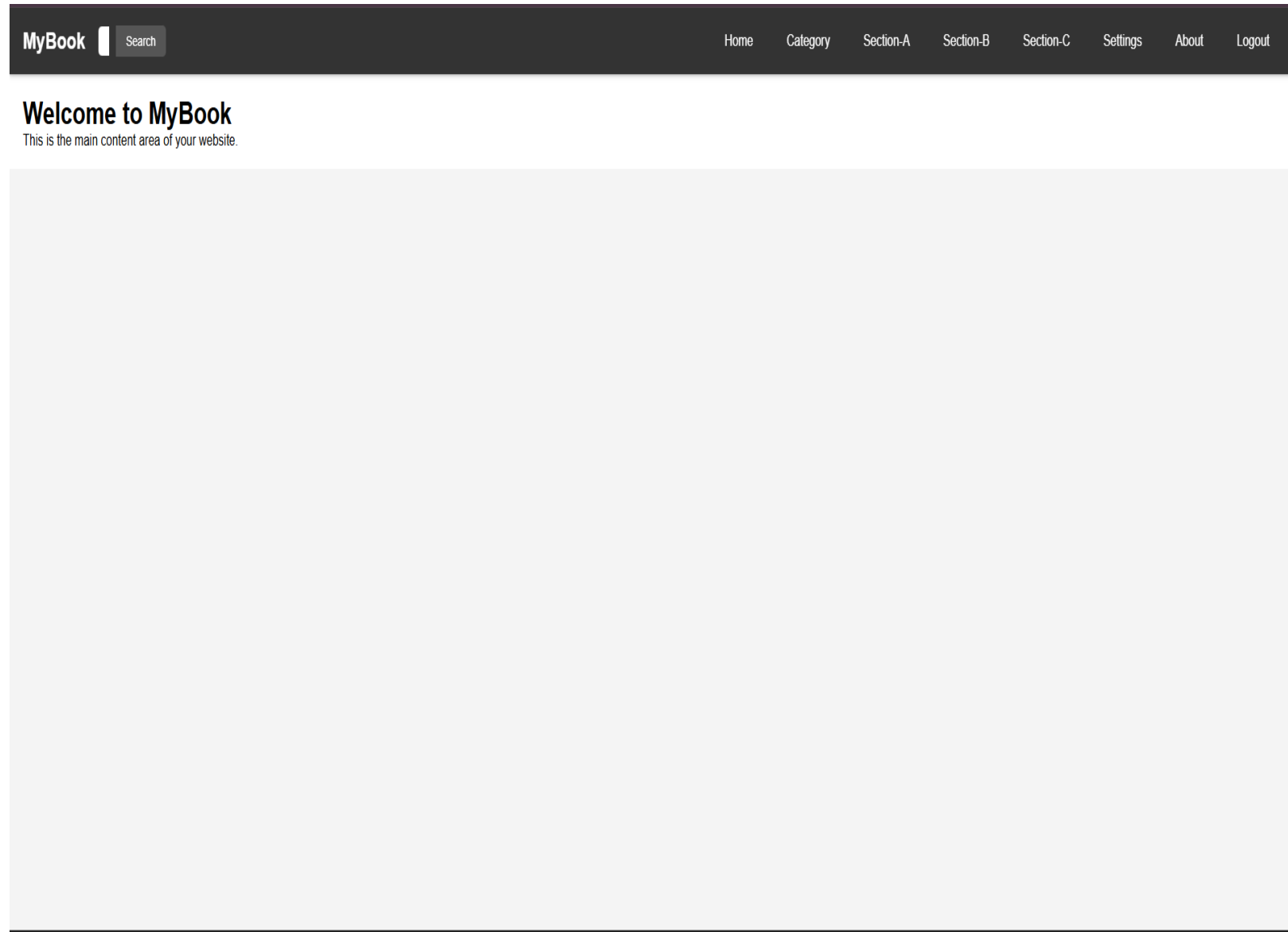
Forgot
Password?

User Authentication

- **Login Page**
- Secure login with validation
- **Logout Functionality**
- Session management with auto redirect

Navigation Bar

- Includes:
- Home
- Category
- Section-A / B / C
- Settings
- About
- Logout
- **Search bar with suggestions**
- Styled with Bootstrap – responsive and clean.



- Research Paper
- Article
- E-Book
- Manual
- Other
- Customer Care

Welcome to MyBook

This is the main content area of your website.

Category Page

- **Categories:**
- Research Paper
- Article
- E-Book
- Manual
- Other
- Customer Care
- Each category dynamically loads book lists.

Smart Search with NLP & LLM

Search Suggestions:

“All” → Suggest “Attention All You Need”

Tech Used:

Sentence Embeddings (BERT/SBERT)

FAISS for fast retrieval

OpenAI/LLM for smart suggestions

AI Search Workflow

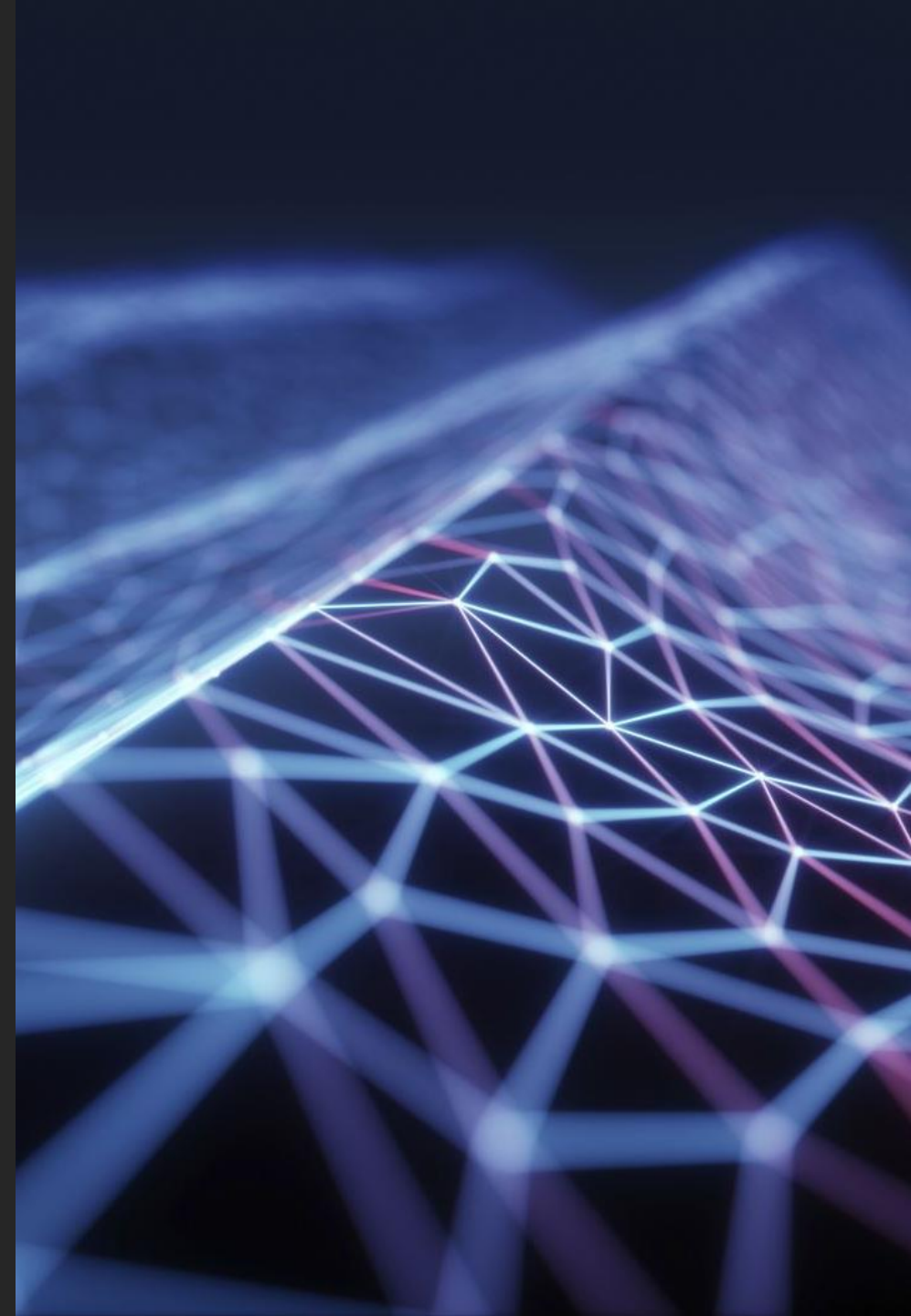
User types query

Autocomplete + LLM Suggestions

Semantic search (Embedding-based)

Results returned with ranking

Context-aware filters (e.g., author, section)

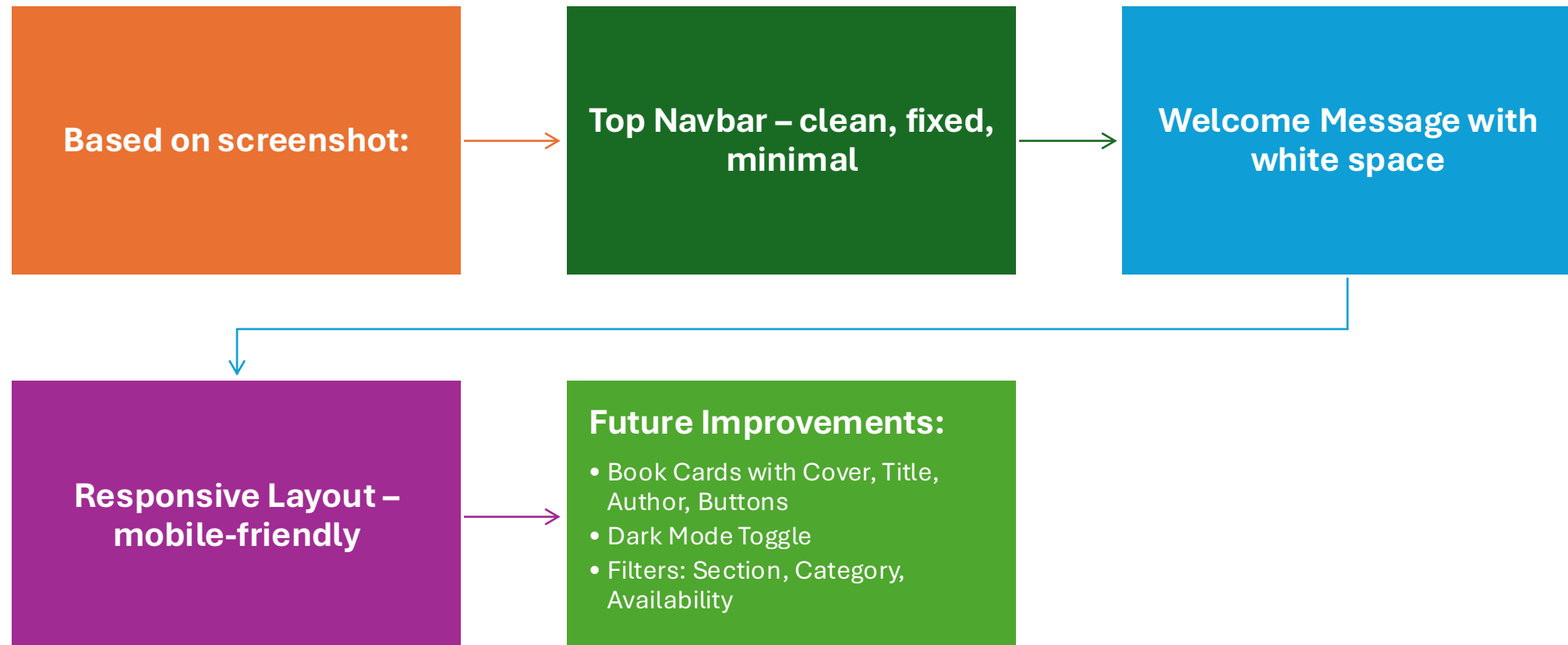


AI/ML & Deep Learning Integration in MyBook

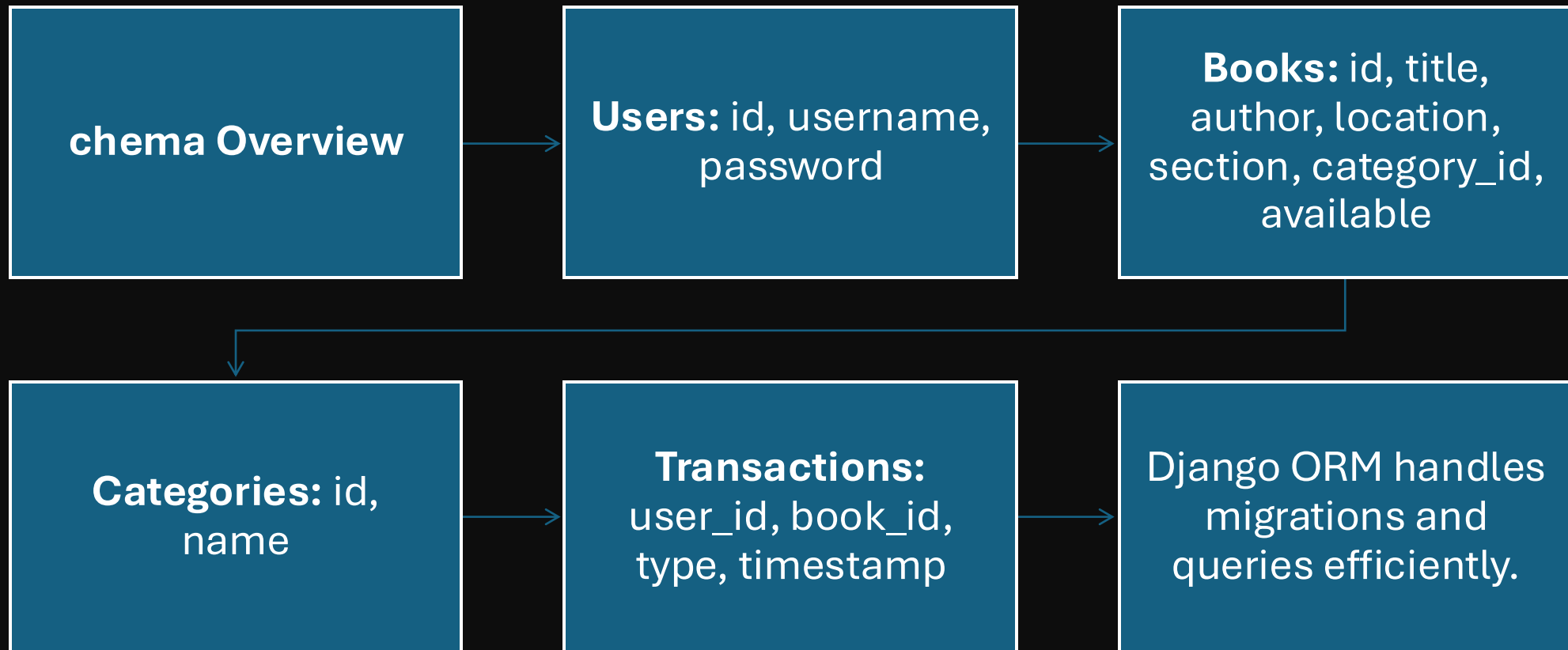
- **LLMs (GPT, BERT):** Smart search, autocomplete, query expansion
- **NER (spaCy, BERT):** Detect book names, categories from input
- **TextGAN / SeqGAN:** Generate synthetic queries & suggestions
- **Clustering (KMeans):** Group similar books/topics
- **Recommendation Models:** Personalized suggestions based on behavior
- **Transformers / RNNs:** Predict next keywords or search phrases
- **OCR + CNN:** Scan and auto-tag book covers
- **Voice Search & Summarization:** AI voice input & auto-summary (future)



UI/UX Design



Database Design





Future Enhancements

- 📖 Admin panel for managing books
- 💳 Payment integration (Stripe, Razorpay)
- ★ Book ratings/reviews
- 🔄 Real-time availability status
- 🤖 Chatbot for help and discovery

Conclusion

- **MyBook** simplifies finding and accessing books
- Combines Django's robustness with AI-powered search
- Scalable for institutions, colleges, and digital libraries

