User Requirements Report
Project Title: Web-Based Research Article Management System
Prepared by: Elon Emucroft

---

1. Introduction

As a researcher engaged in academic and scientific work, I require a web-based system that supports efficient handling of scholarly articles throughout my research process. The system should help me upload, store, summarize, annotate, and reference articles in a centralized and organized way, saving me time and reducing manual effort. The system should prioritize usability, accuracy, and support for established academic workflows.

---

2. User Goals and Expectations

The core objectives of the system from my perspective as a researcher are:

- Streamline the process of collecting and organizing scientific articles.
- Enable fast comprehension of articles through automated summaries.
- Allow personalized notes and annotations for reference and collaboration.
- Provide seamless citation generation in commonly used academic formats.
- Maintain a searchable library of references I've used or plan to use.
- Offer a clean, intuitive, and responsive user interface accessible from various devices.

---

3. Functional Requirements (User-Focused)

3.1 Article Upload and Storage

- I want to upload articles in PDF or text format.
- The system should allow batch uploads for multiple files.
- I want the system to store and categorize articles for easy access.

3.2 Metadata Entry and Editing

- I should be able to manually enter metadata fields including:
  - Title
  - Authors
  - Journal/Conference name
  - Publication year
  - DOI (if available)
  - Abstract
  - Keywords
- I want to be able to edit this metadata at any time after upload.

3.3 Automatic Article Summarization

- I want the system to automatically generate a summary of each uploaded article.
- Summaries should be concise but informative enough to grasp the article's purpose and findings.
- I should have the option to regenerate or manually edit summaries.

3.4 Notes and Annotations

- I want to add personal notes to each article.
- These notes should be time-stamped and optionally linked to specific parts (e.g., page or section).
- I should be able to edit and delete notes as needed.

3.5 Citation and Reference Management

- I need to generate citations and references for each article in multiple formats (APA, MLA, Chicago, etc.).
- I want to copy or export these references as needed.
- The system should support in-text citation generation where applicable.

3.6 Reference Library

- I want to save the references I use when writing my own research articles.
- These references should be searchable and grouped by project, topic, or article.
- I should be able to import/export references in standard formats (e.g., BibTeX, RIS).

---

4. Usability and Interface Requirements

- The interface should be minimal, clean, and responsive on desktop, tablet, and mobile.
- Navigation should be intuitive with minimal learning curve.
- I should be able to search and filter articles and references easily (e.g., by keyword, author, year).
- The system should support dark mode or customizable viewing settings.

---

5. Non-Functional Considerations

- **Data Security**: Uploaded files, notes, and metadata should be stored securely and accessible only to me unless I choose to share.
- **Reliability**: The system should not lose data during uploads or edits.
- **Performance**: Summarization and citation generation should complete quickly, ideally within a few seconds.
- **Scalability**: The system should accommodate a growing personal library of hundreds or thousands of articles without performance issues.

6. Future Considerations (Optional but Desirable)

- Integration with reference managers like Zotero, Mendeley, or EndNote.
- Collaborative features for sharing articles and notes with colleagues.
- Version control or change history for notes and summaries.
- Tagging system for better organization.

7. Conclusion

This system should serve as a digital workspace for managing the literature I rely on in my research. It should reduce repetitive tasks, support academic writing needs, and help maintain an organized knowledge base. I look forward to a user-friendly and robust tool that aligns with real research workflows.