



Bangladesh Army University of Science and Technology (BAUST), Saidpur

Department of Computer Science And Engineering(CSE)

Project Title : “BAUST LIBRARY MANAGEMENT SYSTEM”.

Project members:

NAME:

- MOST. SADIA PARVEEN
- SUMAIYA ISLAM SUCHI
- HARISA MUMTAHENA
- SURAIYA AKTER SHORNA

ID:

210201025
210201031
210201042
210201046

SUBMITTED TO:

HASAN MUHAMMAD KAFI, (ASSISTANT PROFESSOR , DEPARTMENT OF
CSE)

CONTENTS:

- ☐ Introduction
- ☐ Objectives
- ☐ Problem Definition
- ☐ Available Applications
- ☐ Methodology
- ☐ ER Diagram
- ☐ Tools and Technology
- ☐ Limitations
- ☐ Future scop
- ☐ Conclusion and
- ☐ References

□ Introduction:

- A library, the source of knowledge and solutions to questions.
- Maybe available in different libraries but unique in our university system.
- Purpose to make a user-friendly system to interact with every user directly






❑ Objective:

- It Improves the resource utilization service level .
- Reduce the duplication of work.
- Fast communication with electronic and computerized service.
- Online facility helps in smooth functioning of library functions.
- Users can check the availability of particular book online.
- Add, Edit , Delete and view library stock.
- Generate customized reports of library items.
- Searching is easy in the online library system.
- The system automatically calculates the late fee depending upon the issue and return of the book.

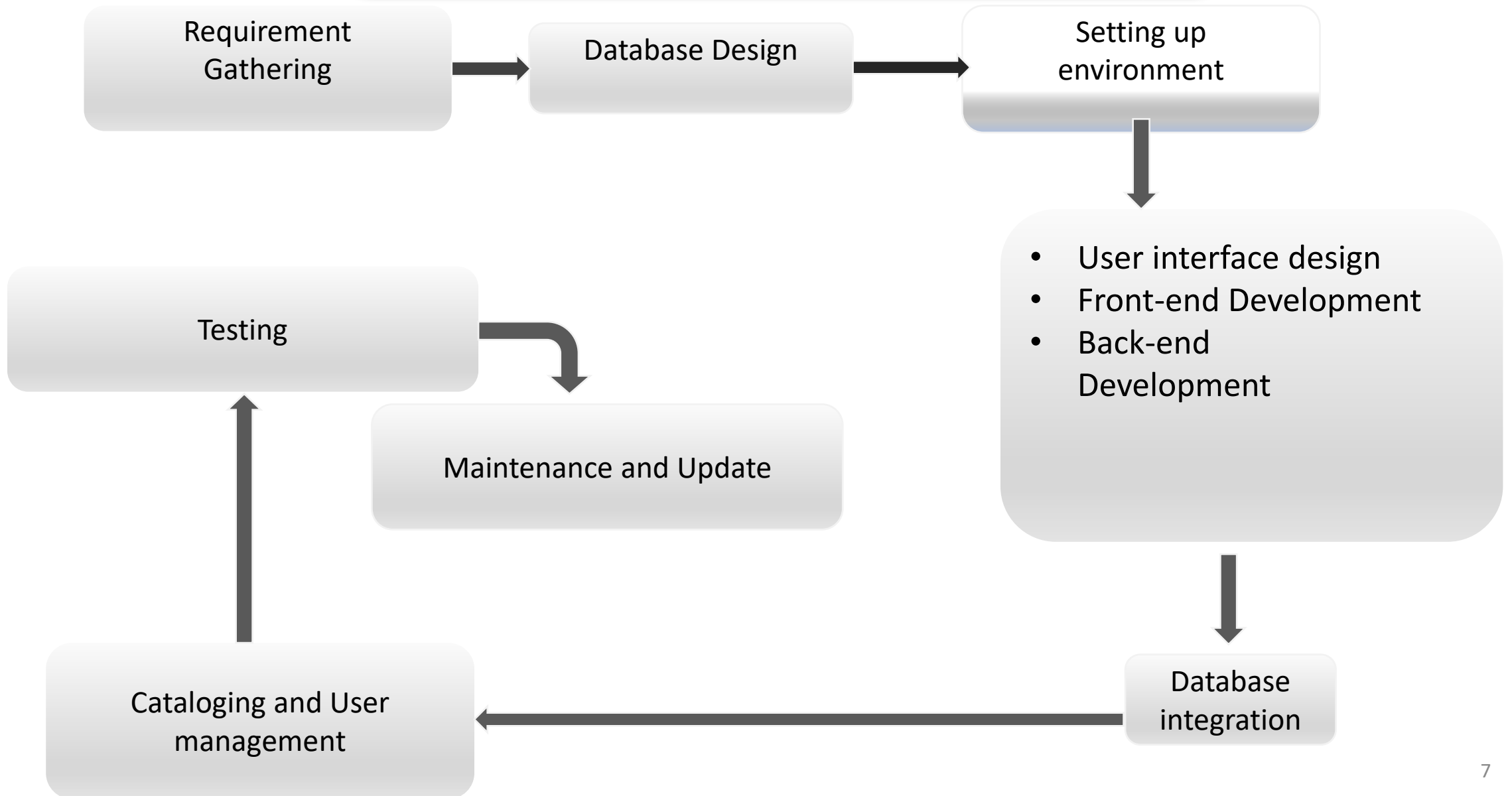
❑ **Problem definition:**

- Manual record collection in the library.
- Time-consuming circulation process.

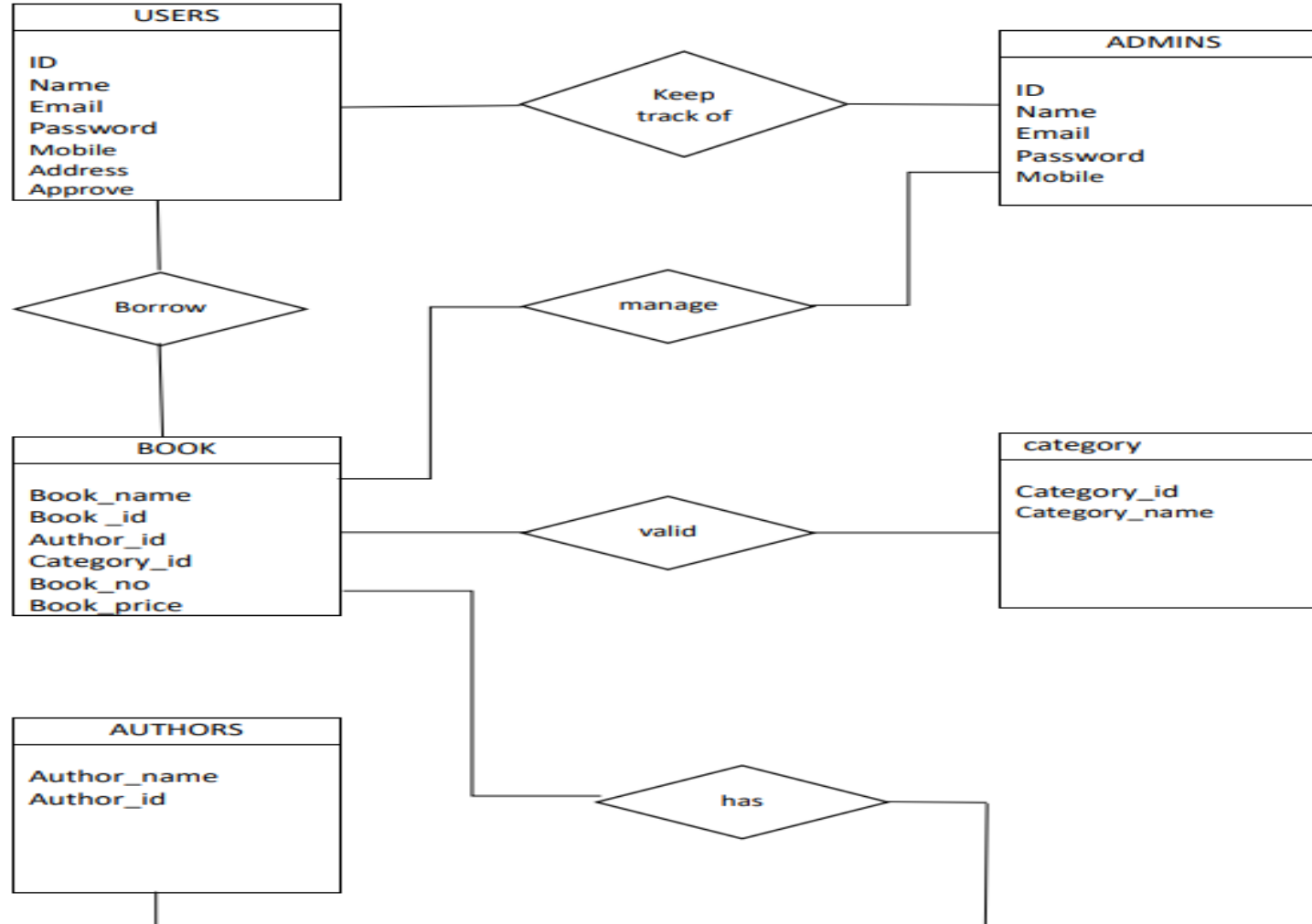
❑ Available Applications

		Features	Limitations
1.Atrium {a}		<ul style="list-style-type: none">• Cataloging and Book Management• Circulation and Checkouts• Security and Data Privacy	<ul style="list-style-type: none">▪ Less modern user interface▪ Inflexible to library needs
2.Destiny Library Manager {b}		<ul style="list-style-type: none">• Digital resources management• Resource reservation	<ul style="list-style-type: none">▪ Limited support for non-English speakers
3.BAUST central Library {c}		<ul style="list-style-type: none">• Integration with educational platforms• Scanning books with QR code	<ul style="list-style-type: none">▪ Accessing with in certain▪ Only students can resister
4.Koha {d}		<ul style="list-style-type: none">• Integration capabilities• User management	<ul style="list-style-type: none">▪ Customizing complexity▪ Performance issue
5.Alma{e}		<ul style="list-style-type: none">• User experience Customization• Analytics and reporting	<ul style="list-style-type: none">▪ Expensive for smaller libraries▪ Learning curve▪ Internet dependency

METHODOLOGY



ER DIAGRAM:



☐ Tools and Technology:

1. Programming Language:

☐ PHP(Sublime Text) – {f}

2. Database Management System:

☐ MySQL(XAMPP, SQLYOG) – {h}

3. Web Development:

☐ HTML

☐ CSS

☐ JavaScript

❑ **Limitation:**

The limitations of a library management system project in its presentation can include:

1. User Interface Design:
2. Limited User Experience
3. Lack of Responsiveness
4. Inadequate Search and Navigation
5. Limited Visual Appeal

❑ **Future scope:**

1. Enhanced User Experience:
2. Personalization:
3. Integration with Online Resources:
4. Advanced Search and Discovery:
5. Library Analytics:

Conclusion

- Our library management system will be essential for efficiently organizing and managing library resources.
- We briefly explained about existing ones and will try to include and improve in our system.
- We will try to ensure smooth library operations.

References

- ❖ Atrium book system: <https://booksys.com/atrium> [a]
- ❖ Destiny Library Manager: <https://www.follettlearning.com/education-technology/library-management-system> [b]
- ❖ BAUST Central Library: <http://library.baust.edu.bd/> [c]
- ❖ Koha: <https://koha-community.org/> [d]
- ❖ Alma: <https://exlibrisgroup.com/products/alma-library-services-platform/> [e]
- ❖ PHP: <https://www.php.net/docs.php> [f]
- ❖ Sublime Text: <https://www.sublimetext.com/docs/> [g]
- ❖ MySQL: <https://dev.mysql.com/doc/> [h]