



FAKULTI TEKNOLOGI MAKLUMAT DAN KOMUNIKASI
UNIVERSITI TEKNIKAL MALAYSIA MELAKA

PROJEK DIPLOMA
(DITU 3964)

CADANGAN PROJEK

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Tajuk Projek	Ibnu Sina Library management System
Nama Penyelia	DR Aniza Binti Othman
Semester & Sesi	Semester 1 2022/2023
Kata kunci (maksimum 5)	1. Limitation for book borrow 2. Book availability base on the book quantity 3. Identify the existence of books by its category 4. Send a notification to members who are fined 5. Librarians can manipulate data in the system

Isi Kandungan Cadangan Projek

1.0 Project Introduction

Ibnu Sina Library Management System is specially designed for the use of Sekolah Menengah Kebangsaan Zainab 2, located at Kota Bharu Kelantan. The system is an automated software system that can help to optimize the librarian's, work. This system is highly recommended for academic institutions. The system will have some advance function where it will automatically set the book limit to be borrowed for each member. If the member has reached the borrowed limit the system will automatically block the member from borrow the new books. Next, Librarian also can easily do a manipulation data using the system where librarian can add follow the books quantity, update the book data for the latest details and delete the defect book. Librarian also can do a data manipulation for the book publisher and the book authors. Other than that, librarian also can view the list of registered members and do a registration to the new members. The system also has an interface for the members where member can login using member id and password to do a book searching and view the book locations and student also can borrow the book by just click borrow button. After the book is borrowed the books, quantity will automatically decrease. The advance function that has from this system is the system will send the notification to the member that have late submission date and the member need to pay the fine before return the book, after the book is returned the books, quantity will automatically increase. In addition, from the problem research, Ibnu Sina Library always has an issue about missing books, massive book's location where the books were placed not at its category rack. This problem makes it difficult to the librarian and member to find the book. The main reason why this system will be developed is to help librarian find the books location rapidly, detecting the members that have a fine and for management staff to view the popular book report and weekly report of total borrowed books. Before this the data is stored traditionally in logbook that risky to the data lost then by using the system the data will safely stored in the system database.

1.1 Problem Statements

1. Difficult to manage the members, books, issues, and any data related properly.
2. Difficult to keep track of how many books have been borrowed by the members and the dates that need to be returned to the library.

3. Hard for the librarian to issue fines to the members who late return the book or lost the books.
1. Difficult to management staff to know the weekly report about the famous book and the total books being borrowed

1.2 System Goals

The main goal for this system is to make sure librarian can do a data manipulation for the book, publisher, and author. Librarian also can do a registration for each member so each member can borrow the book from the library based on the total limit. The system can calculate the fined base on book return date and finally the system will generate the report that can be viewed by management staff.

1.3 Objective

1. To manage the members, books, issues and any data related properly.
2. To allow users to keep track of how many books based on availability.
3. To allow librarian to issue fines to the members who late return the book or lost the books.
4. To allow management staff to view the weekly report about the famous book and the total books being borrowed.

1.4 Scope

Pengguna system

1. Librarian (Library Teachers and students)
2. Members (Students and teachers)
3. Management staff (Principal)

System Module

Librarian

1. Librarian login
2. Manage Book (view, add, update, and delete)
3. Manage Publisher (view, add, update, and delete publisher)
4. Manage Author (view, add, update, and delete Author)
5. Manage book loan (update fine and return book)
6. Register new member
7. View book report

8. View registered member

Member

1. Member login
2. View book details
3. Borrow book
4. Fine notifications

Management Staff

1. View member list
2. View book report

1.5 Project requirements

Development Tools

Visual studio Code, Notepad++

Server

Microsoft Windows, Web Server

Database

MySQL, MariaDB, Oracle Apex

Hardware Requirements

Laptop, Smartphone, iPad

Network requirements

Wi-Fi

1.6 Justification/Importance

Why you need to develop the system:

1. To easier the process of managing book data and the book loan for the member.
2. To identify the fined member and calculating the fine

Benefits to be obtained

1. Book data will be more organized
2. Easily track the book
3. Easily detected fined members
4. Automatically generating the report from the system

Who will get the benefits and how?

SMK Zainab 2 librarian, management staff and students because the system will make the loan process more efficiency.

Pengesahan:

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