LRC LIBRARY: SERVICE MANAGEMENT

**CABRITO-MAGLENTE [8-JASMINE]** 

**PROJECT TITLE:** 

LRC LIBRARY: SERVICE MANAGEMENT — A web program designed to help

Students and faculty manage their LRC needs, making

It easier to plan services and avoid physical trips

For simple tasks.

PROBLEM STATEMENT:

Students and teachers often find it hard to manage

Their library needs because they have to go to the

LRC in person for simple tasks like reserving spaces,

Borrowing items, or checking availability. This takes

Up extra time and causes inconvenience, especially

With busy schedules. A program is needed to make these

Services easier and more accessible online.

**PROJECT OBJECTIVES:** 

Make LRC services easier to access.

Save time for students and teachers.

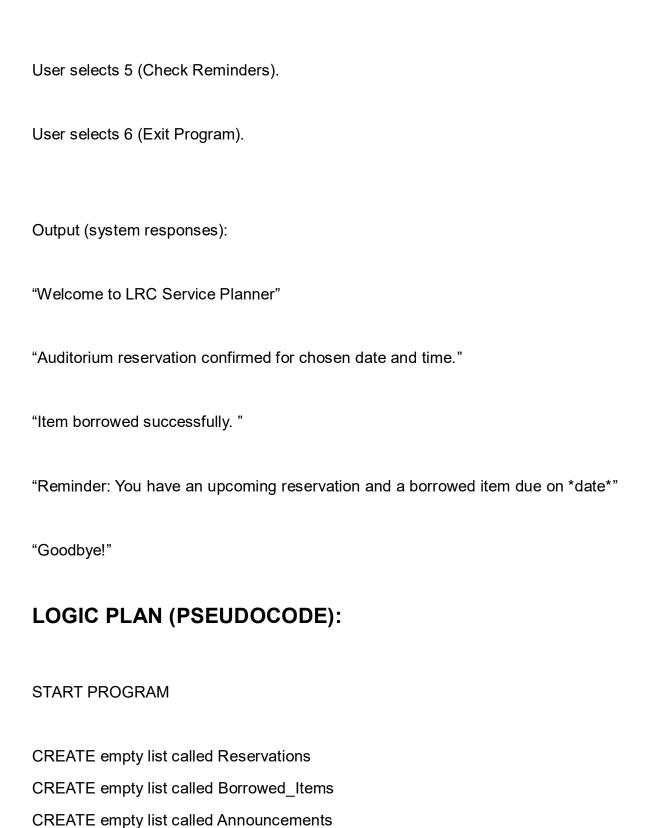
•Keep track of reservations and borrowed items.

Share updates quickly with users.

Remind users about returns and bookings.

Give students and teachers a simple online tool for LRC needs.
PLANNED FEATURES:
• Announcements: Send timely news about sudden library closures, new services, or other important updates.
• LRC Auditorium Reservations: Allow users to book the auditorium for school projects like presentations, group work, and role-playing.
• Printing Services: Provide real-time information on the availability of ink and paper.
Borrowing: Let people reserve books, computers, and other items ahead of time.
• Reminders: Send automatic reminders to ensure borrowed items are returned on time.
PLANNED INPUTS AND OUTPUTS:
Input (users):
User logs in successfully.
User selects 2 (Reserve Auditorium) from the menu.
User enters date and time for reservation.

User selects 3 (Borrow Item) and chooses a laptop with a return date.



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FUNCTION Add_Announcement
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PROMPT admin for Announcement Text

ADD Announcement Text to Announcements list

**END FUNCTION** 

## FUNCTION Show\_Announcements

FOR each Announcement in Announcements list

**DISPLAY Announcement** 

**END FOR** 

**END FUNCTION** 

## FUNCTION Reserve\_Auditorium

PROMPT user for Date and Time

CHECK if Date and Time are already in Reservations

IF not reserved THEN

ADD {Date, Time, "Auditorium"} to Reservations

DISPLAY "Auditorium reservation confirmed"

**ELSE** 

DISPLAY "Auditorium not available, choose another slot"

**END IF** 

**END FUNCTION** 

## FUNCTION Borrow\_Item

PROMPT user for Item Name

PROMPT user for Return Date

CHECK if Item is already borrowed

IF available THEN

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ADD {Item Name, Return Date} to Borrowed_Items
    DISPLAY "Item borrowed successfully"
  ELSE
    DISPLAY "Item not available"
  END IF
END FUNCTION
FUNCTION Show Borrowed Items
  FOR each Item in Borrowed_Items
    DISPLAY Item Name and Return Date
  END FOR
END FUNCTION
FUNCTION Reminder_Check
  GET Today's Date
  FOR each Item in Borrowed_Items
    CALCULATE Days_Left = Return Date - Today
    IF Days_Left <= 1 THEN
      DISPLAY " A Reminder: Return " + Item Name + " tomorrow!"
    END IF
  END FOR
END FUNCTION
REPEAT
  DISPLAY Menu Options:
    1 – View Announcements
    2 - Reserve Auditorium
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- 3 Borrow Item
- 4 View Borrowed Items
- 5 Check Reminders
- 6 Exit Program

PROMPT user for choice

IF choice = 1 THEN

CALL Show\_Announcements

ELSE IF choice = 2 THEN

CALL Reserve\_Auditorium

ELSE IF choice = 3 THEN

CALL Borrow\_Item

ELSE IF choice = 4 THEN

CALL Show\_Borrowed\_Items

ELSE IF choice = 5 THEN

CALL Reminder\_Check

ELSE IF choice = 6 THEN

DISPLAY "Goodbye!"

**EXIT PROGRAM** 

**ELSE** 

DISPLAY "Invalid choice. Try again."

UNTIL user chooses Exit

**END PROGRAM**