TORES
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MEETING ROOM RESERVATION SYSTEM

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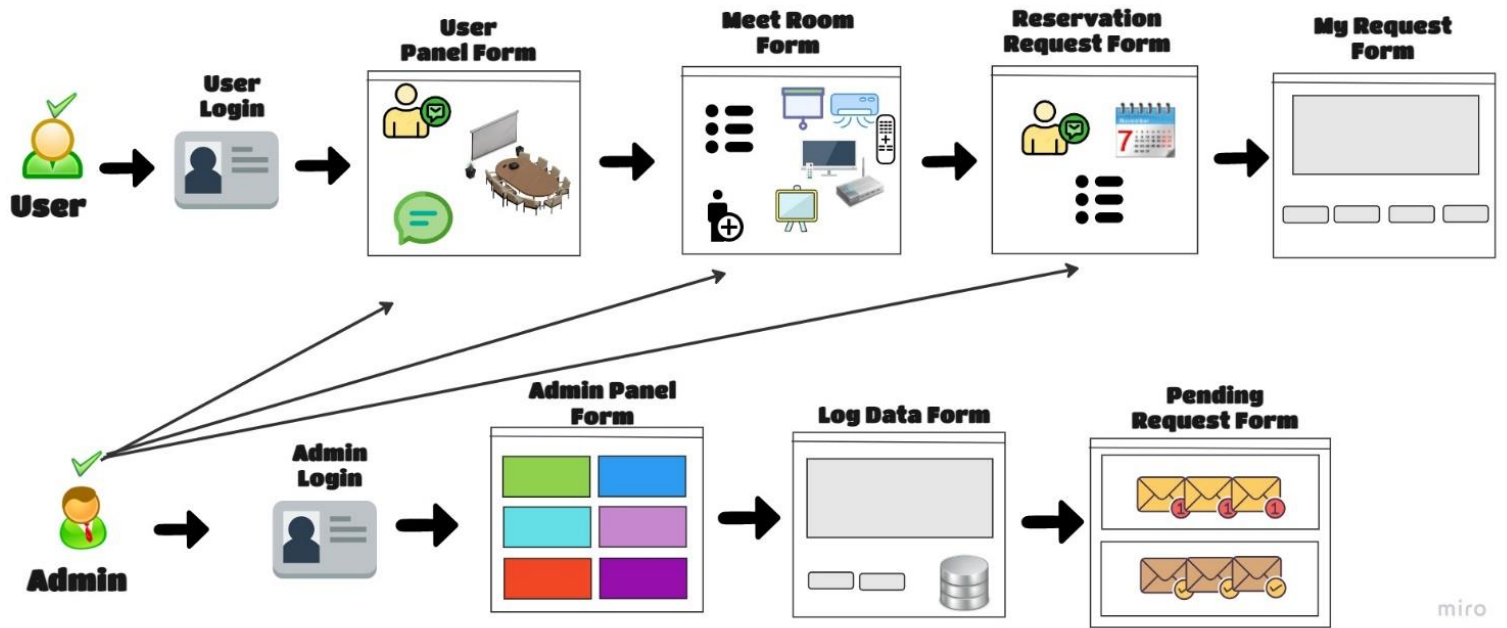**ALEYNA ÖZ**
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Information

The software was developed using Microsoft Visual Studio 2022 software development environment. C# .NET and .NET framework were used as the software development language. The application uses SQL Server Database.

Purpose

Our project aims to ensure efficient and effective management of meetings, making it easier for businesses to plan and manage their meeting processes. Efficient and effective planning and management of meetings are crucial for businesses. Therefore, our meeting reservation automation project is designed to automate and optimize the meeting planning and management processes for businesses. Our project is an automation that allows users to easily plan their meetings, invite guests, set up meeting venues and equipment, manage meeting reminders, and other meeting details.
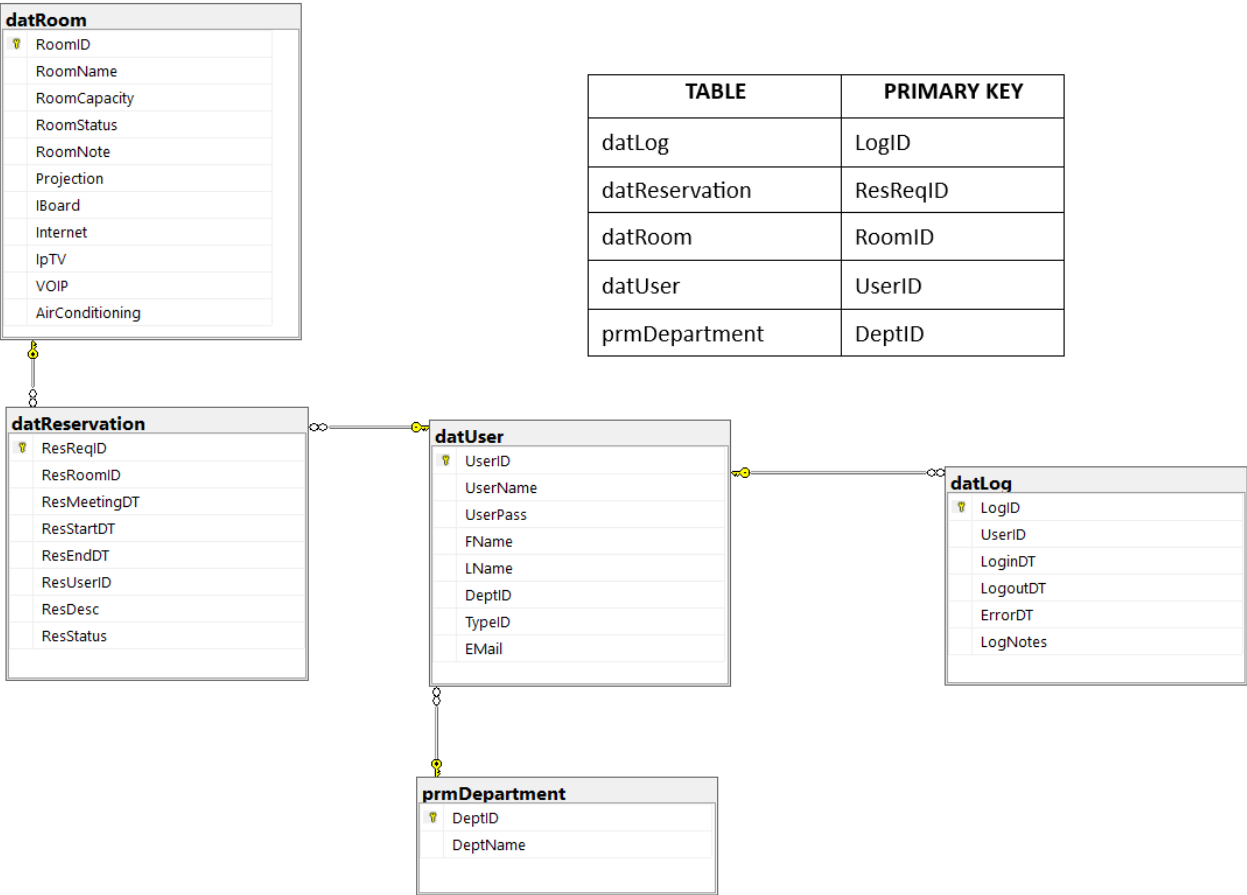
SCHEMATIC DESIGN OF THE SYSTEM

User → User Login → User Panel Form → Meet Room Form → Reservation Request Form → My Request Form

Admin → Admin Login → Admin Panel Form → Log Data Form → Pending Request Form

TORES DATABASE (SQL SERVER) TABLE STRUCTURES

Table Name	Description
datLog	This table keeps log records of all transactions performed in our application. Any transaction performed by users on the application is recorded in this table. This makes it easier to track errors occurring in the application and troubleshoot them.
datReservation	This table stores information about the meeting reservations made by users. When users plan their meetings through the application, reservation information is stored in this table. This way, users can view, edit or cancel their reservations later.
datRoom	This table stores information about meeting rooms in our application. The names, capacities, equipment, etc., of the meeting rooms are located in this table. This allows users to choose a suitable meeting room during the meeting planning process.
datUser	This table stores information about the application users. Users' name, surname, email address, password, etc., are located in this table. This enables users to log in to the application and make meeting reservations.
prmDepartment	This table stores information about users' departments. Information about which department users work in is located in this table. This allows users to send meeting invitations to the correct department. .
prmSpec	This table stores information about the features of the meeting rooms. Features such as projection device, Internet, I-Board, etc., of the meeting rooms are located in this table. This allows users to choose a suitable meeting room during the meeting planning process.

Database Diagram

datRoom
- RoomID
- RoomName
- RoomCapacity
- RoomStatus
- RoomNote
- Projection
- IBoard
- Internet
- IpTV
- VOIP
- AirConditioning

datReservation
- ResReqID
- ResRoomID
- ResMeetingDT
- ResStartDT
- ResEndDT
- ResUserID
- ResDesc
- ResStatus

datUser
- UserID
- UserName
- UserPass
- FName
- LName
- DeptID
- TypeID
- EMail

datLog
- LogID
- UserID
- LoginDT
- LogoutDT
- ErrorDT
- LogNotes

prmDepartment
- DeptID
- DeptName

TABLE	PRIMARY KEY
datLog	LogID
datReservation	ResReqID
datRoom	RoomID
datUser	UserID
prmDepartment	DeptID

FORMS

LoginForm

1 User Name: This control gets the username information.

2 Password: This control gets the password information.

3 Sign In: With the help of this button, the "Username" and "Password" information entered in the textboxes is compared with the user information registered in the database. If the entered information matches the database, the system logs in as an Admin or User according to the entered information. If the information entered is incorrect, an error message is sent, and the system does not log in. Also, the incorrect or correct login record is sent to LogData through this button.

4 Exit: This button allows exiting the system, and exit information is sent to LogData.

UserPanelForm

1 New Request: This button provides access to the Reservation Request area when the user wants to create a new reservation request.

2 My Request: This allows the user to access their meeting requests.

3 Meet Rooms: This button provides access to the features of the meeting rooms.

4 Exit: This allows for exiting the system.

MeetRoomForm

1 Choose: This control provides access to room names.

2 Capacity: The capacity information of the meeting room is given.

3 Room Specs: In this area, the technical equipment list of the room is shown in the form of checkboxes.

4 Projection,VOIP,I-Board,AirConditioning,Internet,IP-TV: If checked, the room has this equipment; if not, the meeting room does not have this equipment.

5 List: This button allows for retrieving room information after a room name has been selected.

6 Reservation Request: This button directs the user to the reservation request form. If a room is selected, the user will be directed to the reservation area with the room name selected.

7 Update: This button can only be accessed with admin login. The button's function is to change room features and allow saving these features. After the information is updated, the current information will be sent to the database and an update will be provided there as well.

8 Close: This is used to close the form.

ReservationRequestForm

1 Choose: Room names are stored in this list. The user can select the meeting room they want to reserve from here.

2 Room Features: If the user does not know the room features and wants to learn them, they are directed to the room features area with the help of this button.

3 Date: The desired reservation date for the meeting room is selected through the DateTimePicker here.

4 Show Available Hours: With the help of this button, information about which hours the selected room is available on the desired reservation date is retrieved.

5 Start: The start time of the meeting is selected from this area.

6 End: The end time of the meeting is selected from this area.

7 Details: Additional information can be entered in this area if necessary. Filling in this field is not mandatory.

8 Send Request: If the information is entered correctly and completely, the reservation request and information are sent to the Administrator. If the information is incorrect, a request will not be created and a warning will be issued.

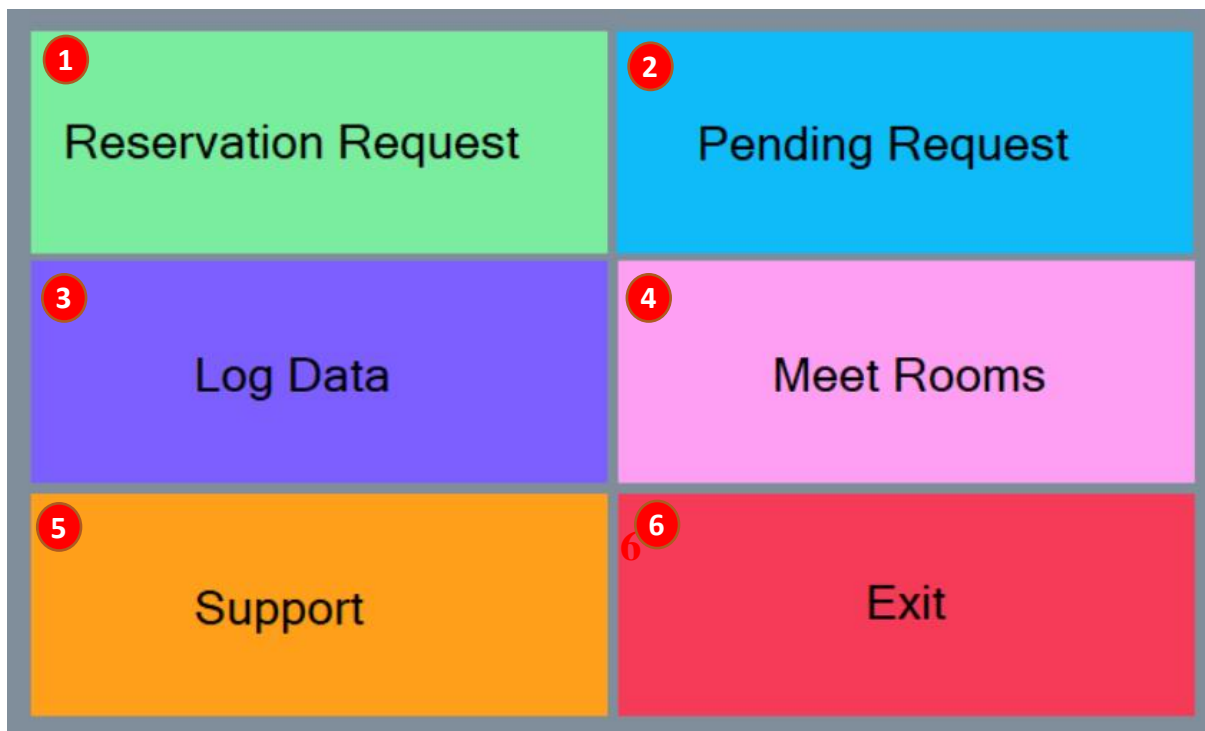**9 Cancel:** Allows for exiting the form.

MyRequestForm

1 Reservation Request: In this area, the user can view their reservation requests and reservation statuses through the DataGridView.

2 New Request: If a new reservation is desired, this button allows for transitioning to the reservation request form.

3 Meet Request Cancel: The cancellation of an unapproved room reservation request is provided.

4 Exit: Allows for exiting the form.

AdminPanelForm

1 Reservation Request: Through this panel, a connection is provided to the reservation request form. In this form, a meeting room reservation request is made for a room with the specified features and at the desired times.

2 Pending Request: Through this panel, approved and pending reservation requests are viewed by the admin. With this form, the administrator (admin) displays approved and pending requests using 2 DataGridViews and approves reservation requests based on availability.

3 Log Data: Through this panel, the administrator can view user logins, failed logins, and the names of users attempting to log in on a DataGridView. In this form, the administrator can perform deletion operations.

4 Meet Rooms: Through this panel, various features of meeting rooms are displayed. These are room names, room capacities, and technical equipment in the rooms. The administrator (admin) has the authority to change these features in this form.

5 Support: When clicked on this panel, access to information about the company, system, and admin details is provided.

6 Exit: Allows for exiting the form.

LogDataForm

1 DataGridView: With the help of this display method, the administrator can monitor users who log in or attempt to log in to the system

2 Delete Log: If the administrator presses this button, they can delete the user login in the row they have passed through in the DataGrid.

3 Delete All: This button helps the administrator to delete all login records.

4 Close: Allows for transitioning to the previous form.

PendingRequestForm

1 Pending Approvals: Reservation requests that have been submitted but not yet approved are displayed through the DataGridView.

2 Approved Requests: In this area, reservations approved by the admin are displayed through the DataGridView.

3 Approve: The admin can approve the pending reservation with this button.

4 Close: Allows for exiting the form.