



# MAJALIS-AL-ZEHIKR API

## مجالس الذكر

By sondos khalid

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# OVERVIEW

- ◆ MJALIS AL ZIHKIR is a session management API that facilitates interactions between teachers and students via active sessions, enabling active learning.
- The project implements secure user registration and authentication.

# OBJECTIVE

◆ This project aims to facilitate the path for young learners and knowledgeable teachers by providing a platform for live, interactive learning sessions.

It specifically targets youth who want to learn more about their religion, and qualified teachers who are ready to share their knowledge and contribute to the advancement of future generations.

## API USERS



TEACHER



STUDENT

# API USERS



## TEACHER

- Signup/log in securely .
- Set marks and view students.
- Start a live session, monitor students joining in real time, then end session when done.
- View requests.
- Manage requests.
- View profile .



## STUDENT

- Sign up/log in securely.
- view his mark and his teacher.
- view available sessions to join.
- join an active session with his teacher , and leave it when done.
- View teachers and send requests to join other teachers sessions.
- veiw response for his request.
- View profile.

# Authentication



## JWT-Based Authentication:

Teachers and students authenticate through JWT tokens, which are securely encrypted to ensure a safe user experience.



## Password Protection with Bcrypt:

Passwords are hashed using Bcrypt and stored securely in the database, protecting user account and ensuring secure sign-up/in processes.

## Authentication cont



### Role-Based Route Protection:

Custom auth middleware protects all routes. Students can only access student-specific routes, and teachers are limited to their own routes — preventing unauthorized access and protecting against data manipulation.

# STRENGTH

- ◆ Session-Based Route Locking:  
Students can't access other routes while  
in an active session.
- ◆ Validation & Error Handling for both users:  
like verifying if a teacher is available or if a  
session exists before processing actions.

# STRENGTH<sub>Cont</sub>

- ◆ Session Management Logic:  
Controls when sessions start, how students join or leave, ensuring a structured and interactive learning flow.
- ◆ JWT Authentication & Security:  
Secure authentication using JWT tokens and password hashing with Bcrypt.

# WEAKNESS



## TEACHER-side

- Approving all requests or deny all.
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## STUDENT-side

- Student Registration  
Dependency on Teacher Availability.
- Random Teacher Assignment and Limited Student Choice.

# CHALLENGES

- ◆ Managing Requests:  
tracking student requests status until  
teacher set it as approved, to let student  
join.
- ◆ Duplicate Join Prevention:  
Ensures a student can't join the same session more  
than once, preventing duplicate in data base.

# VISION

Front end

Expanding user flexibility

