

Authentication Flow:  
Users authenticate through Azure Active Directory (Azure AD) using OpenID Connect (OIDC) for identity federation.

JWT Usage:  
After successful authentication, the system generates JSON Web Tokens (JWTs) containing user claims and roles.

API Gateway Integration:  
The API Gateway validates incoming JWTs to ensure authenticity and integrity before processing requests.

Token Validation Process:  
Validates the JWT's signature using public keys stored in Azure AD to confirm its origin and prevent tampering.  
Checks token expiration to ensure it is still valid for authorization.

Authorization Decision:  
Authorizes requests based on user roles and permissions stored in Azure AD's Role-Based Access Control (RBAC).  
Only authenticated and authorized users with valid JWTs gain access to protected API endpoints.

Secure Communication:  
Ensures secure communication between components by rejecting requests with invalid or expired tokens.

