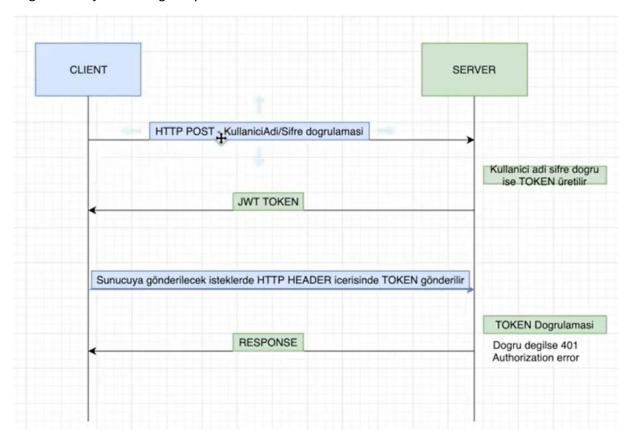
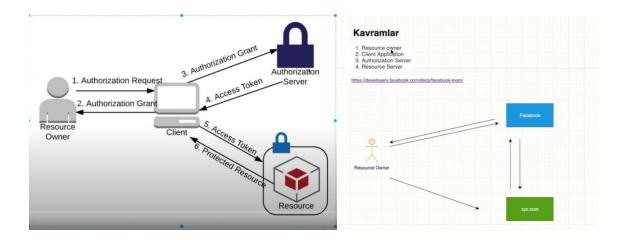
**JWT** 

Request ve response larımız üzerinde servere giden isteklerin aynı kişiden gidip gitmediğini doğrulamak için kullandığımız yöntem





```
HEADER: ALGORITHM & TOKEN TYPE
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ
zdWIiOiJ0ZW1lbHQiLCJuYW1lIjoiaGF5ZGlrb2R
                                                                       "alg": "HS256",
sYX1hbGltLmNvbSIsImlhdCI6MTUxNjIzOTAyMn0
                                                                      "typ": "JWT"
.AbFd_oUmnn5OpMkjyA5zh-aIbpVrWmXAI-
yv8i_i3_w
                                                                   PAYLOAD: DATA
                                                 Subject (whom the token refers to)
                                                                      "sub": "temelt",
"name": "haydikodlayalim.com",
"iat": 1516239022
                                                                   VERIFY SIGNATURE
                                                                    HMACSHA256(
                                                                     base64UrlEncode(header) + "." +
                                                                      base64UrlEncode(payload),
                                                                      haydikodlayalim
                                                                    ) secret base64 encoded
```



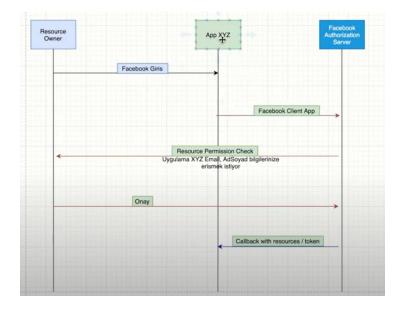
Twitter örneği üzerinde

Resource owner: kullanıcımız,

Client application: geliştirdiğimiz uygulama

Authorization server: yetkilendirme sunucusu,

Resource sercer :Twitlerin saklı olduğu sunucu



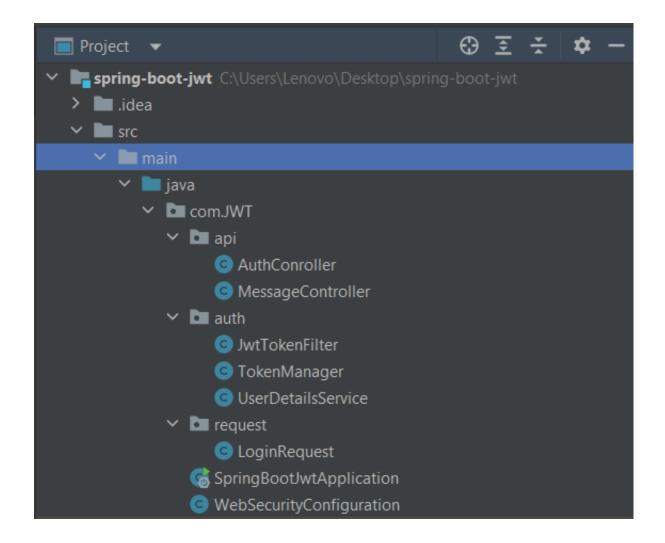
JWT yi request body ye eklemiyoruz, path variable a eklemiyoruz.

Requestte jwt yi ekleyeceğimiz yer header. Header daki authorization parametresi.

403 veya 401 görüyosan jwt ile ilgili bir sorun var demektir.

Db ye passwordlerin açık açık yazılmaması lazım ayrıca.

Mailin daha önce db de kayıt olup olmadığına bakacaksın.



# MAIN CLASS

# LoginRequest

```
public class LoginRequest {
    private String username;
    private String password;

    public LoginRequest() {
    }

    public LoginRequest(String username, String password) {
        this.username = username;
        this.password = password;
}

    public String getUsername() {
        return username;
    }

    public void setUsername(String username) {
        this.username = username;
    }

    public String getPassword() {
        return password;
    }

    public void setPassword(String password) {
        this.password = password;
    }
}
```

# MessageController

```
@RestController
@RequestMapping("/message")
public class MessageController {
    @GetMapping
    public ResponseEntity<String> getMessage() {
        return ResponseEntity.ok("Merhaba JWT");
    }
}
```

### JwtTokenFilter

## TokenManager

#### UserDetailsService

```
@Service
public class UserDetailsService implements
org.springframework.security.core.userdetails.UserDetailsService {
    private Map<String, String> users = new HashMap<>();
    @Autowired
    private BCryptPasswordEncoder passwordEncoder;
    @PostConstruct
    public void init() {
        users.put("burak", passwordEncoder.encode("123"));
    }

    @Override
    public UserDetails loadUserByUsername(String username) throws UsernameNotFoundException {
        if (users.containsKey(username)) {
            return new User(username, users.get(username), new ArrayList<>());
        }

        throw new UsernameNotFoundException(username);
    }
}
```

 $\underline{https://ugurcemozturk.medium.com/ison-web-tokens-jwts-ile-spring-boot-uygulamas\%C4\%B1n\%C4\%B1-g\%C3\%BCvenceye-alma-38577fb5354b$ 

https://devnot.com/2017/json-web-token-jwt-standardi/

 $\underline{https://medium.com/@furkanbegen/oauth2-basit-anlat\%C4\%B1m-c5f9b542a0f2}$ 

 $\underline{https://docs.spring.io/spring-security/site/docs/5.0.x/reference/html/csrf.html}$