

LU08.A05 Register/Login implementieren

Erstellen Sie unter `src/main/java/ch/bzz/controller` eine Controllerklasse `ProjectApiController`, welche das bereits generierte interface `ProjectApi` implementiert.

```
package ch.bzz.controller;

@RestController
public class ProjectApiController implements ProjectApi {

    private final ProjectRepository projectRepository;
    private final BCryptPasswordEncoder encoder = new
BCryptPasswordEncoder();
    private final JwtUtil jwtUtil;

    public ProjectApiController(ProjectRepository projectRepository) {
        this.projectRepository = projectRepository;
        this.jwtUtil = jwtUtil;
    }

    @Override
    public ResponseEntity<Void> createProject(LoginRequest loginRequest) {
        // TODO: implement
    }

    @Override
    public ResponseEntity<LoginProject200Response> loginProject(LoginRequest
loginRequest) {
        // TODO: implement
    }
}
```

Versuchen Sie so weit wie möglich die beiden Methoden zu implementieren.

Für das Erstellen des JWT können Sie folgende Hilfsklasse verwenden.

```
import io.jsonwebtoken.Jwts;
import io.jsonwebtoken.SignatureAlgorithm;
import io.jsonwebtoken.security.Keys;
import jakarta.annotation.PostConstruct;
import org.springframework.beans.factory.annotation.Value;
import org.springframework.stereotype.Component;

import java.security.Key;
import java.util.Date;

@Component
public class JwtUtil {

    @Value("${jwt.secret}")
}
```

```
private String secret;

private Key key;

@PostConstruct
public void init() {
    key = Keys.hmacShaKeyFor(secret.getBytes());
}

public String generateToken(String projectName) {
    Date currentTime = new Date();
    Date expirationTime = new Date(currentTime.getTime() + 3_600_000);

    return Jwts.builder()
        .setSubject(projectName)
        .setIssuer("AccountingApp")
        .setIssuedAt(currentTime)
        .setExpiration(expirationTime)
        .signWith(key, SignatureAlgorithm.HS256)
        .compact();
}

public boolean validateToken(String token) {
    try {
        Jwts.parserBuilder().setSigningKey(key).build().parseClaimsJws(token);
        return true;
    } catch (Exception e) {
        return false;
    }
}
```

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