

TEAM E : CIRCLESPACE

MIDTERM PRESENTATION

날다람쥐랩

SEOKHYUN BAE
JIWOO CHUNG
GUHO KIM
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OBJECTIVE

GOAL 1

SYSTEMATIC
CLASSIFICATION,
CATEGORIZED
INFORMATION

GOAL 2

STANDARDIZED
CLUB INFORMATION

GOAL 3

REAL-TIME
UPDATES

GOAL 4

UNIVERSITY
ACCOUNT
VERIFICATION

GOAL 5

NOTIFICATION
FEATURE

MEET THE TEAM



SEOKHYUN BAE

TEAM LEADER
FRONTEND & BACKEND
DEPLOYMENT



GUHO KIM

BACKEND
DATABASE
WEB CRAWLING



JINWOO PARK

UI / UX DESIGN
FRONTEND



JIWOO CHUNG

UI / UX DESIGN
FRONTEND

TIMELINE

Task & Assignee	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
Project Setting All Members									
UI/UX Design Frontend Dev.									
Business Logic Development Backend Dev.									
Web Page Development Frontend Dev.									
API Development Backend Dev.									
DataSource Development Backend Dev.									
Testing & Optimization All Members									
Deployment Backend Dev.									

- 📍 Basic UI / UX design : Done
- 📍 Business logic design : Done
- 📍 Web Page Development : In Progress
- 📍 API Development : In Progress
- 📍 Datasource Development : In Progress

IMPLEMENTATION

CATEGORIZATION

CIRCLESPACE

로그인 가입하기

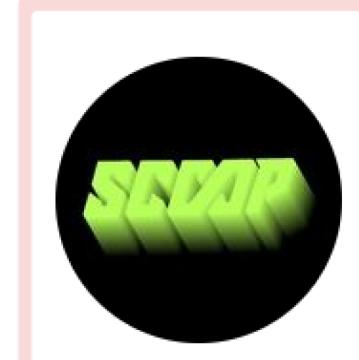
캠퍸스 인싸 되고 싶다면?
나만의 동아리부터 시작해!

우리학교 동아리 찾아보기 ➡



스포츠 문화 예술 과학기술 자기계발 학술

축구 야구 테니스 복싱 하이킹

 파이어볼스	 검도부	 스쿱	 와라캐치
 비즈볼	 로얄스	 휴리스틱스	 ZEBRA

```

public ResponseEntity<Void> deleteCategory(Long id) {
    try {
        Category category = categoryRepository.findById(id)
            .orElseThrow(() -> new IllegalArgumentException("카테고리를 찾을 수 없습니다."));
        for (Club club : category.getClubs()) {
            club.getCategories().remove(category);
            clubRepository.save(club);
        }
        categoryRepository.delete(category);
        return ResponseEntity.noContent().build();
    } catch (Exception e) {
        throw new ResponseStatusException(HttpStatus.INTERNAL_SERVER_ERROR);
    }
}

public ResponseEntity<?> getClubsByCategory(String category) {
    try {
        Category cat = categoryRepository.findByName(category)
            .orElseThrow(() -> new IllegalArgumentException("카테고리를 찾을 수 없습니다."));
        Set<Club> clubs = cat.getClubs();
        return ResponseEntity.status(HttpStatus.OK).body(clubs.stream()
            .map(clubService::setClubDTO)
            .collect(Collectors.toList()));
    } catch (Exception e) {
        return ResponseEntity.status(HttpStatus.INTERNAL_SERVER_ERROR).build();
    }
}

```

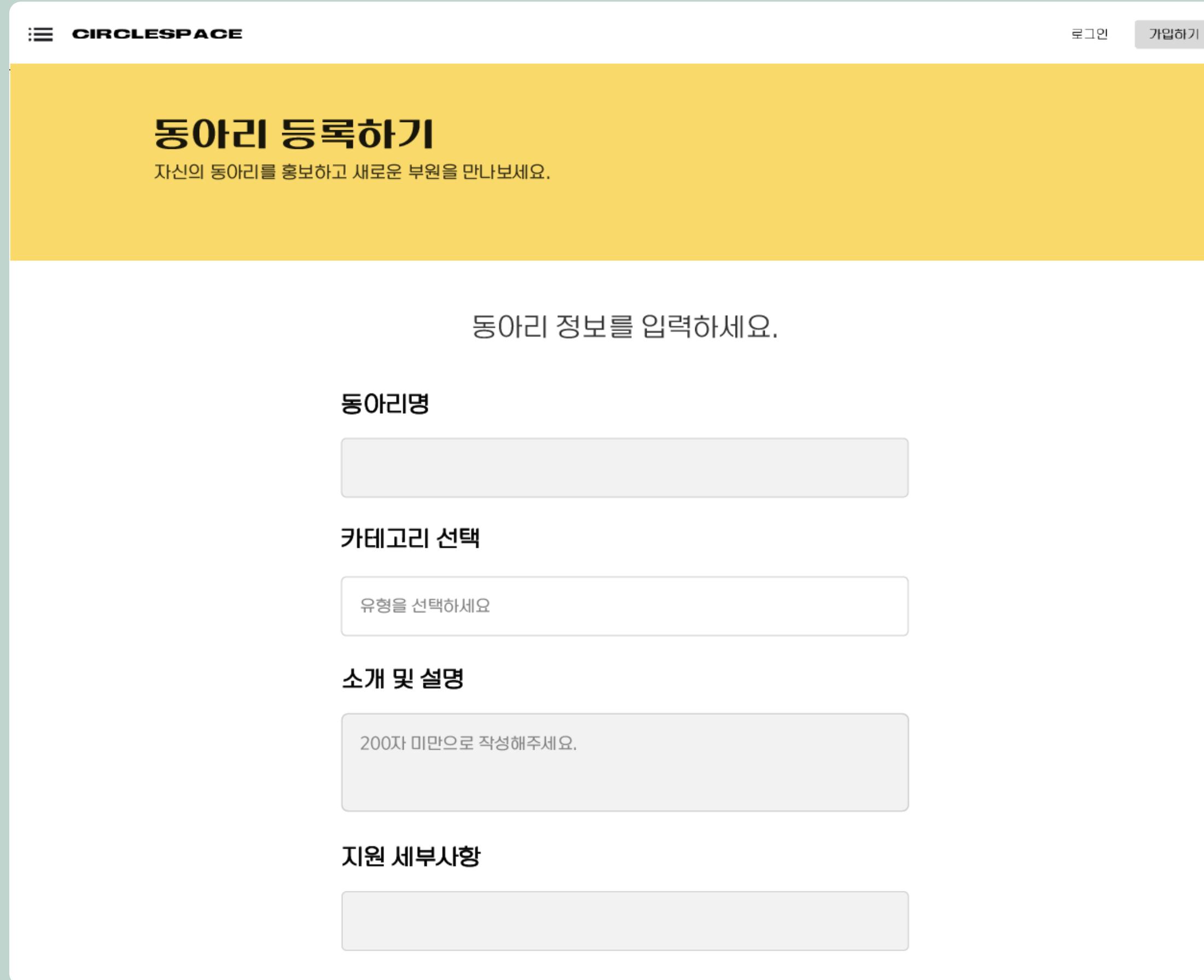
CLUB DETAILS



The screenshot shows a club details page for '성균 밴드'. At the top, there's a navigation bar with the CIRCLESPACE logo, login, and sign-up buttons. Below the header, it displays the club's name ('성균관 대학교 밴드 동아리' and '성균 밴드'), its status ('D-DAY 49'), and a large yellow '지원하기' (Support) button. Underneath, there are tabs for '동아리 소개' (selected), '모집 공고', and '리뷰'. A large gray placeholder image is present where the club's profile picture would normally be.

```
▽ @Entity  
  @Getter  
  @Setter  
  @ToString  
  @JsonIgnoreProperties({"hibernateLazyInitializer", "handler"})  
  public class Club {  
  
    ▽ @Id  
      @GeneratedValue(strategy = GenerationType.IDENTITY)  
      private Long id;  
  
      @Column(unique = true, nullable=false)  
      private String title;  
  
      private Long managerId;  
      private String description;  
  
      private String imageUrl;  
  
      private Boolean featured = false;  
  
    ▽ @ElementCollection  
      @CollectionTable(name = "club_detail_image", joinColumns = @JoinColumn(name = "club_id"))  
      private List<DetailImage> detailImages = new ArrayList<>();  
  
    ▽ @CreationTimestamp  
      @Column(updatable = false)  
      private LocalDateTime createdAt;  
  
      @UpdateTimestamp  
      private LocalDateTime updatedAt;  
  
    ▽ @ManyToMany(mappedBy = "clubs")  
      @JsonBackReference|
```

CLUB REGISTRATION



The screenshot shows a web-based club registration form. At the top left is the 'CIRCLESPACE' logo. On the right side of the header are two buttons: '로그인' (Login) and '가입하기' (Join). The main title '동아리 등록하기' (Register Club) is centered above a yellow banner. Below the banner, a sub-instruction reads '자신의 동아리를 홍보하고 새로운 부원을 만나보세요.' (Promote your club and meet new members). The form itself has several input fields:

- 동아리명**: A text input field with a placeholder '동아리 정보를 입력하세요.' (Enter club information).
- 카테고리 선택**: A dropdown menu with a placeholder '유형을 선택하세요' (Select type).
- 소개 및 설명**: A text area with a placeholder '200자 미만으로 작성해주세요.' (Write within 200 characters).
- 지원 세부사항**: A large, empty text input field.

```
public ResponseEntity<String> uploadClub(Map<String, Object> request) {  
    try {  
        Club club = new Club();  
        String title = (String) request.get("title");  
        String imageUrl = s3Service.getObjectUrl((String) request.get("imagePath"));  
        String description = (String) request.get("description");  
        List<String> categoryNames = (List<String>) request.get("categoryNames");  
  
        club.setTitle(title);  
        club.setImageUrl(imageUrl);  
        club.setDescription(description);  
  
        List<String> detailImagePaths = (List<String>) request.get("detailImagePaths");  
        List<DetailImage> detailImages = detailImagePaths.stream()  
            .map(path -> {  
                DetailImage detailImage = new DetailImage();  
                detailImage.setImageUrl(s3Service.getObjectUrl(path));  
                return detailImage;  
            })  
            .collect(Collectors.toList());  
  
        club.setDetailImages(detailImages);  
  
        for (String categoryName : categoryNames) {  
            Category category = categoryRepository.findByName(categoryName)  
                .orElseThrow(() -> new IllegalArgumentException("Category not found: " + categoryName));  
            club.addCategory(category);  
        }  
  
        clubRepository.save(club);  
        log.info("동아리 등록 완료 {}", club.getTitle());  
        return ResponseEntity.ok(club.getTitle());  
    } catch (Exception e) {  
    }  
}
```

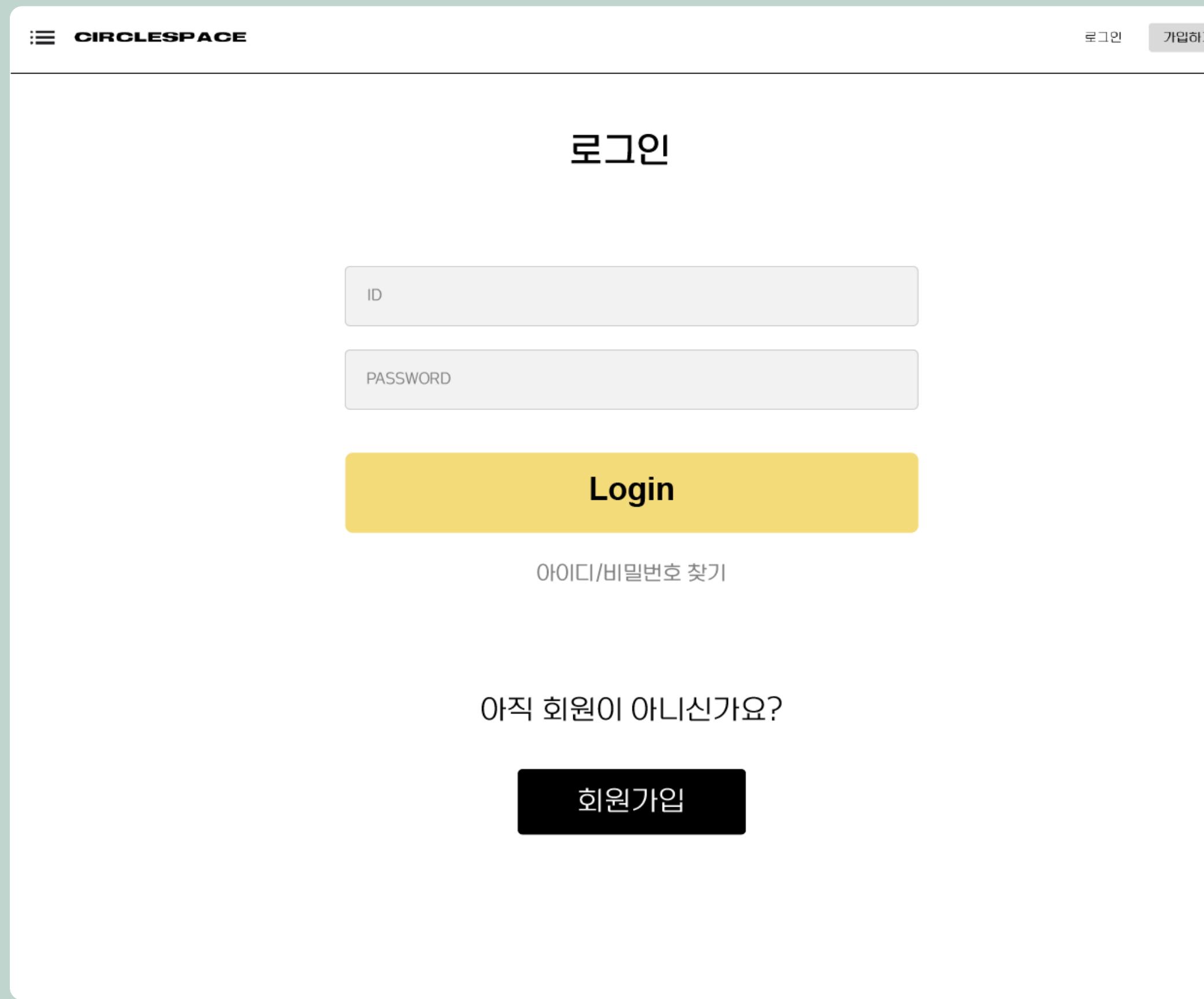
MEMBER REGISTER & LOGIN

The screenshot shows a web application interface for member registration. At the top, there is a navigation bar with the 'CIRCLESPACE' logo, a '로그인' (Login) button, and a '가입하기' (Sign Up) button. Below the navigation bar, the title '회원가입' (Member Registration) is displayed. A '기본 정보' (Basic Information) section contains several input fields with validation messages. The fields include:

- * 성함 (Name): '성함을 입력하세요.' (Please enter your name).
- * 이메일 (Email): '유효한 이메일을 입력하세요.' (Please enter a valid email).
- A large grey button labeled '이메일 중복 확인' (Check Email Duplication).
- * 비밀번호 (Password): '비밀번호를 입력하세요. (최소 8자리 이상)' (Please enter a password. (At least 8 characters)).
- * 비밀번호 확인 (Password Confirmation): '위와 동일한 비밀번호를 입력하세요.' (Please enter the same password as above).
- * 본인인증 (Authentication): A placeholder field.

```
@Entity  
@ToString  
@Getter  
@Setter  
public class Member {  
  
    @Id  
    @GeneratedValue(strategy = GenerationType.IDENTITY)  
    private Long id;  
  
    @Column(unique = true, nullable=false)  
    private String username;  
    private String displayName;  
    private String realName;  
  
    @Column(nullable=false)  
    private String password;  
  
    private String phoneNumber;  
    private String role;  
    private String schoolCode;  
  
    @CreationTimestamp  
    @Column(updatable = false)  
    private LocalDateTime createdAt;  
  
    @UpdateTimestamp  
    private LocalDateTime updatedAt;  
  
    @OneToMany(mappedBy = "member", cascade = CascadeType.ALL, orphanRemoval = true)  
    private List<Like> likes = new ArrayList<>();  
  
    @ManyToMany(cascade = {CascadeType.PERSIST, CascadeType.MERGE})
```

MEMBER REGISTER & LOGIN



```
@Log4j2
public class LoginFilter extends UsernamePasswordAuthenticationFilter {

    private final AuthenticationManager authenticationManager;
    private final JWTUtil jwtUtil;

    public LoginFilter(AuthenticationManager authenticationManager, JWTUtil jwtUtil) {
        this.authenticationManager = authenticationManager;
        this.jwtUtil = jwtUtil;
        setFilterProcessesUrl("/api/loginProc");
    }

    @Override
    public Authentication attemptAuthentication(HttpServletRequest request,
                                                HttpServletResponse response)
            throws AuthenticationException {
        String username = obtainUsername(request);
        String password = obtainPassword(request);

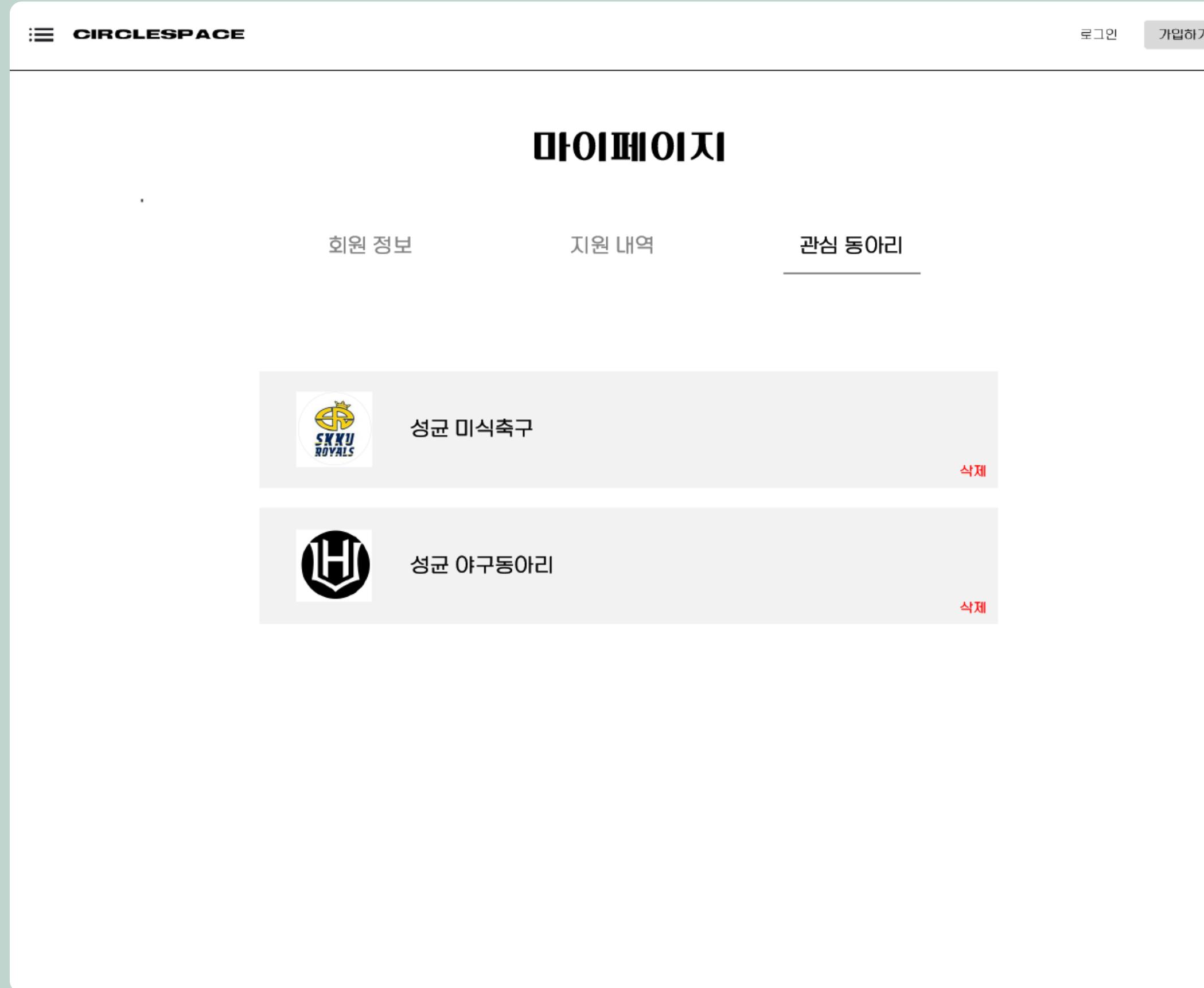
        log.info(username);

        UsernamePasswordAuthenticationToken authToken =
                new UsernamePasswordAuthenticationToken(username, password, null);

        return authenticationManager.authenticate(authToken);
    }

    @Override
    protected void successfulAuthentication(HttpServletRequest request,
                                           HttpServletResponse response,
                                           FilterChain chain,
                                           Authentication authentication)
            throws IOException {
```

mypage features



```
@Transactional
public ResponseEntity<String> addToLike(String username, String title) {

    Member member = memberRepository.findByUsername(username);
    if (member == null) {
        return ResponseEntity.status(HttpStatus.BAD_REQUEST).body("회원정보를 찾을 수 없습니다.");
    }

    Club club = clubRepository.findByTitle(title)
        .orElseThrow(() -> new IllegalArgumentException("동아리를 찾을 수 없습니다: " + title));

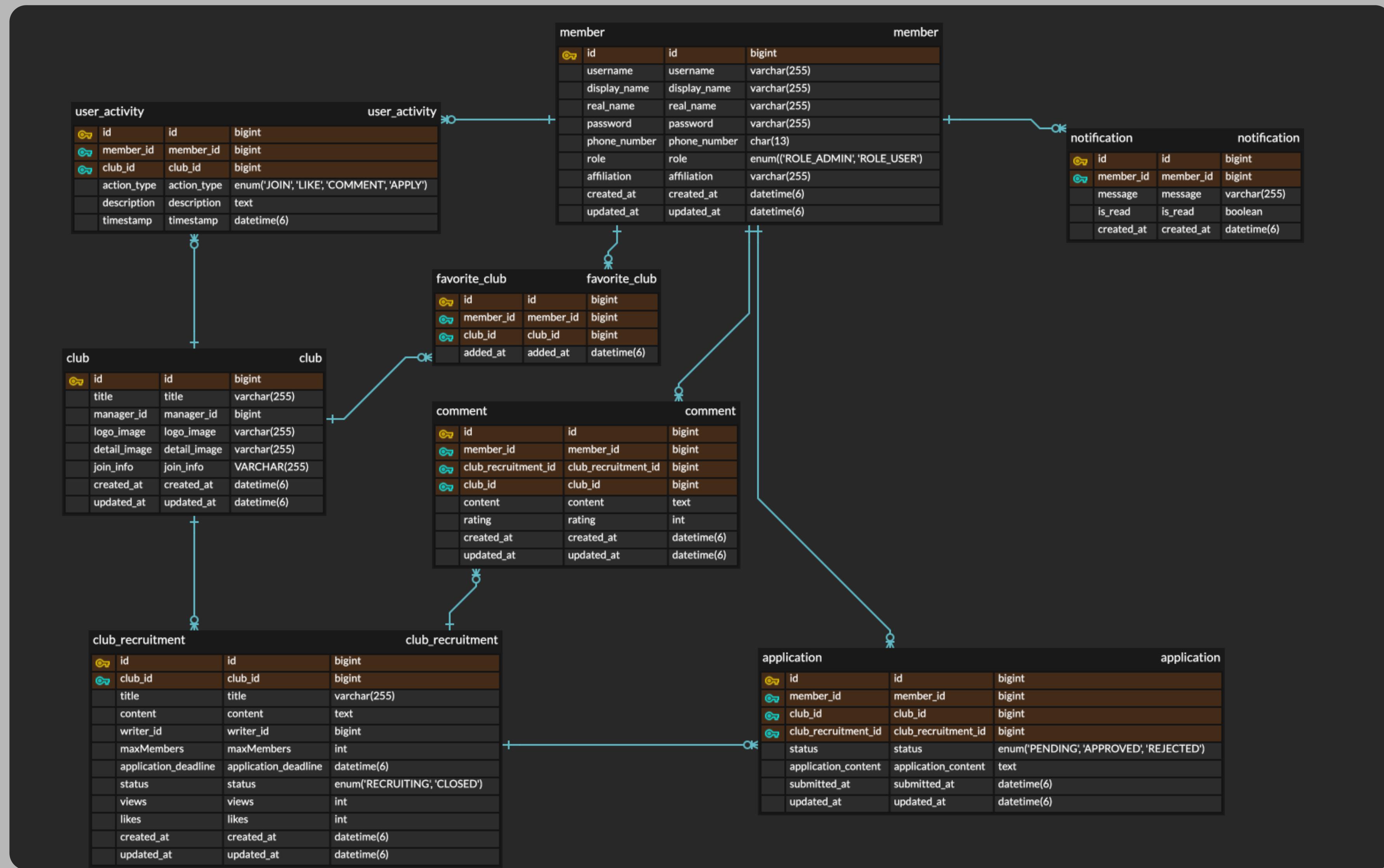
    Like existingLike = likeRepository.findByMemberAndClub(member, club);

    if (existingLike != null) {
        return ResponseEntity.status(HttpStatus.OK).body("Already Liked");
    } else {
        Like like = new Like();
        like.setMember(member);
        like.setClub(club);
        likeRepository.save(like);
    }

    return ResponseEntity.ok("Added to Like");
}
```

DATABASE

DATABASE



DATABASE

Properties 엔티티 관계도

Schema Name: circlespace

Default Charset: utf8mb4

Default Collation: utf8mb4_0900_ai_ci

Tables	테이블명	Engine	Auto Incre
Views	category	InnoDB	
Indexes	club	InnoDB	
Procedures	club_categor	InnoDB	
Triggers	club_detail_i	InnoDB	
Events	comment	InnoDB	
Source	likes	InnoDB	
	member	InnoDB	
	member_clut	InnoDB	
	qna	InnoDB	
	reply	InnoDB	
	review	InnoDB	

```

CREATE TABLE `club` (
  `club_id` bigint NOT NULL COMMENT '동아리',
  `club_name` varchar(255) NULL COMMENT '동아리 이름',
  `manager_id` bigint NULL COMMENT '동아리 대표자 id',
  `logo_image` varchar(255) NULL COMMENT '로고 이미지',
  `detail_image` varchar(255) NULL COMMENT '상세 이미지',
  `join_info` VARCHAR(255) NULL,
  `created_at` datetime(6) NULL COMMENT '생성 일시',
  `updated_at` datetime(6) NULL COMMENT '정보 수정 일시'
);

CREATE TABLE `club_recruitment` (
  `recruitment_id` bigint NOT NULL,
  `club_id` bigint NOT NULL,
  `title` varchar(255) NULL,
  `content` text NULL,
  `writer_id` bigint NULL,
  `maxMembers` int NULL,
  `application_deadline` datetime(6) NULL,
  `status` enum('RECRUITING', 'CLOSED') NULL,
  `views` int NULL,
  `created_at` datetime(6) NULL,
  `updated_at` datetime(6) NULL
);

CREATE TABLE `comment` (
  `comment_id` bigint NOT NULL,
  `recruitment_id` bigint NOT NULL,
  `user_id` bigint NOT NULL COMMENT '멤버',
  `content` text NULL,
  `created_at` datetime(6) NULL,
  `updated_at` datetime(6) NULL
);

```

CHALLENGES: TRIAL AND ERROR

SECURE WEB CRAWLING



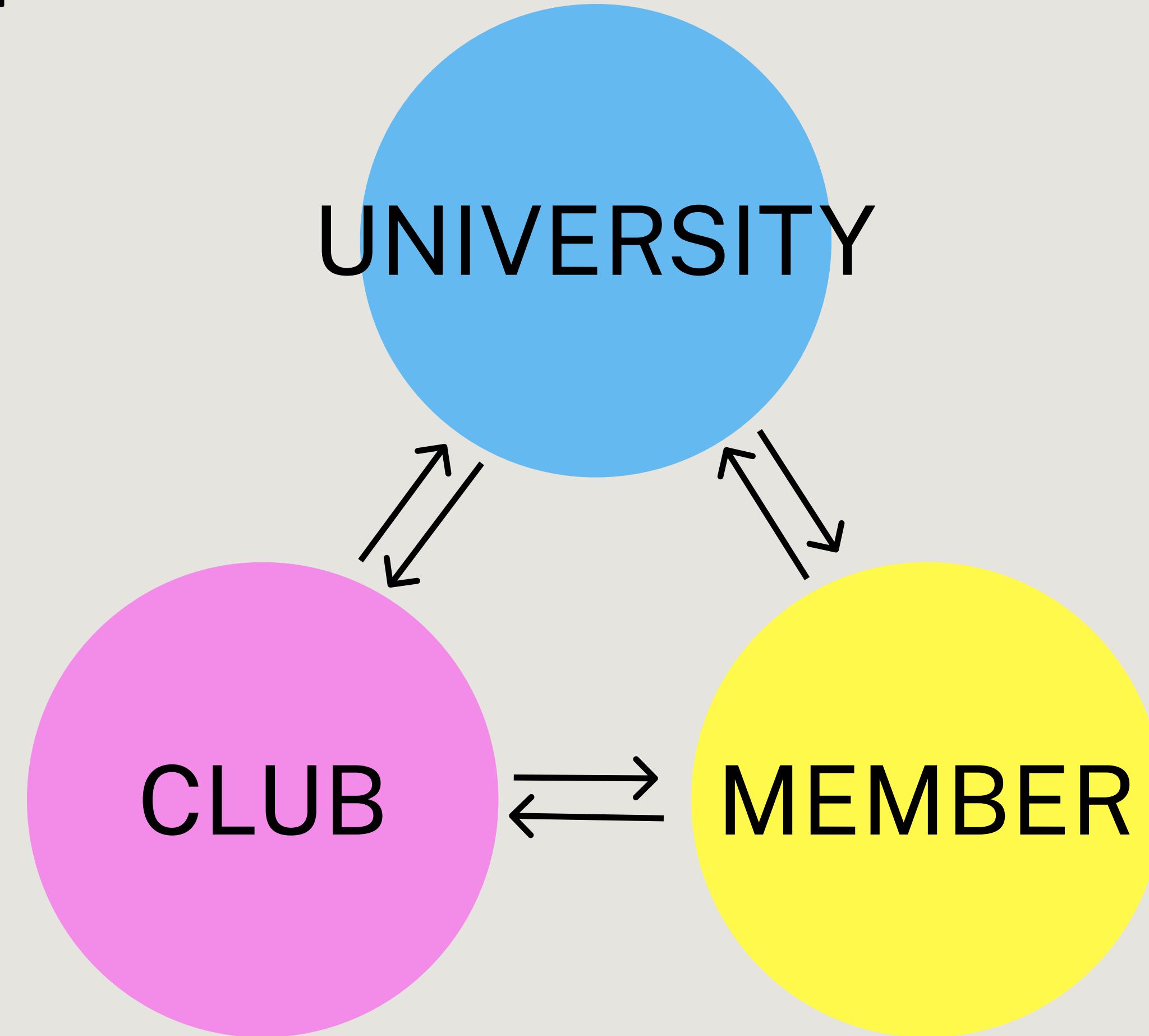
SECURE WEB CRAWLING



```
// 쿠키 저장 메서드
private static void saveCookies(WebDriver driver, File file) throws IOException { 1 usage ▲ GK
    FileWriter fileWriter = new FileWriter(file);
    BufferedWriter bufferedWriter = new BufferedWriter(fileWriter);
    Set<Cookie> cookies = driver.manage().getCookies();
    for (Cookie cookie : cookies) {
        bufferedWriter.write( str: cookie.getName() + ";" + cookie.getValue() + ";" + cookie.getDomain() + ";"
            + cookie.getPath() + ";" + cookie.getExpiry() + ";" + cookie.isSecure());
        bufferedWriter.newLine();
    }
    bufferedWriter.close();
}

// 쿠키 로드 메서드
private static void loadCookies(WebDriver driver, File file) throws IOException { 1 usage ▲ GK
    FileReader fileReader = new FileReader(file);
    BufferedReader bufferedReader = new BufferedReader(fileReader);
    String line;
    while ((line = bufferedReader.readLine()) != null) {
        String[] cookieDetails = line.split( regex: ";" );
        Cookie cookie = new Cookie.Builder(cookieDetails[0], cookieDetails[1])
            .domain(cookieDetails[2])
            .path(cookieDetails[3])
            .expiresOn( expiry: null ) // 만료 날짜를 처리할 필요가 있음
            .isSecure(Boolean.parseBoolean(cookieDetails[5]))
            .build();
        driver.manage().addCookie(cookie);
    }
    bufferedReader.close();
}
```

DATABASE SCHEMA COMPLEXITY



THANK YOU

날다람쥐랩

SEOKHYUN BAE
JIWOO CHUNG
GUHO KIM
JINU PARK