Pacility

Pohang-sport-facility

★ ★ ★

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Pacility

Pohang-sport-facility
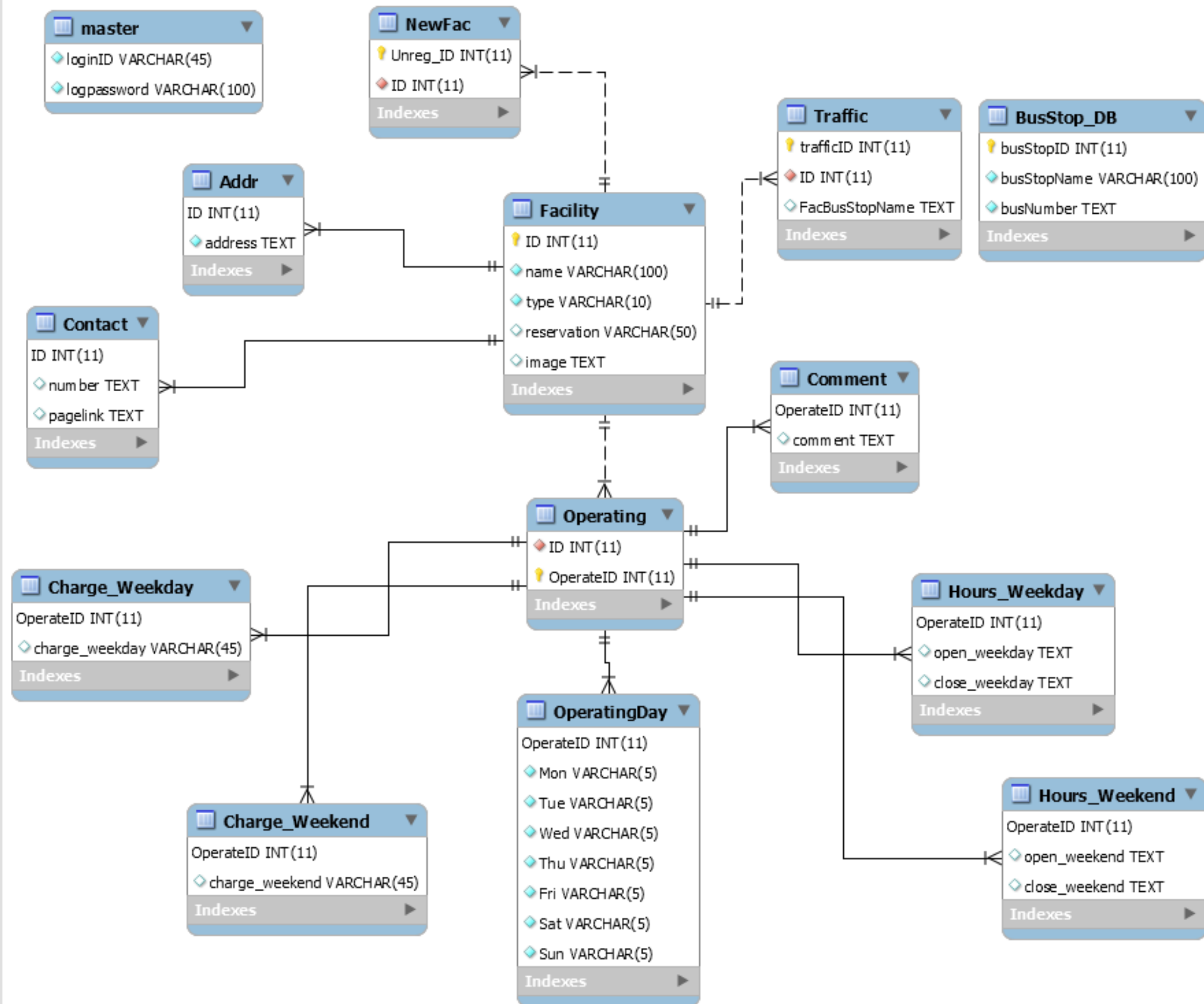
Contents

01. Problem Specification

- **Lack of information** on sports facilities

- **Inaccurate information** spread on websites.

Provide web service
that gives detailed information
on sports facilities in Pohang.

02.
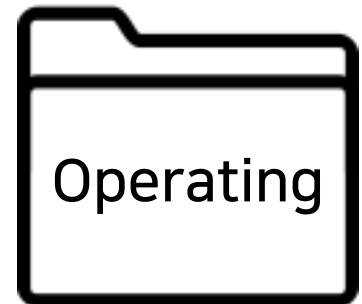# Project Outcomes as the Solution
- DB Schema

- tables and attributes

- tables and attributes
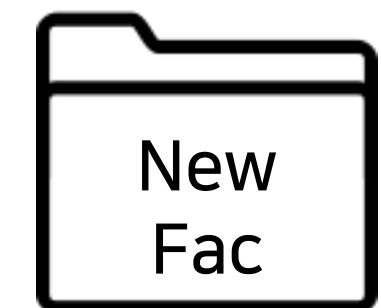
Facility

```
CREATE TABLE `Facility` (
    `ID`            int(11) NOT NULL,
    `name`          varchar(100) CHARACTER SET utf8 NOT NULL,
    `type`          varchar(10) CHARACTER SET utf8 NOT NULL,
    `reservation`   varchar(50) DEFAULT NULL,
    `image`         text DEFAULT NULL,
    PRIMARY KEY (`ID`)
);
```

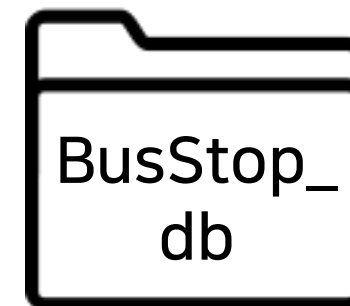**Operating**

```
CREATE TABLE `Operating` (
    `ID`            int(11) NOT NULL,
    `OperateID`     int(11) NOT NULL,
    PRIMARY KEY (`OperateID`),
    KEY `facility_oper_idx` (`ID`),
    CONSTRAINT `facility_oper` FOREIGN KEY (`ID`) REFERENCES `Facility`
);
```

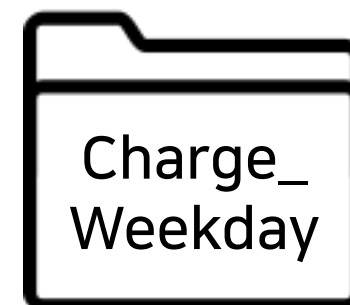**Operating Day**

```
CREATE TABLE `OperatingDay` (
    `OperateID`  int(11) NOT NULL,
    `Mon` VARCHAR(5) NOT NULL,
    `Tue` VARCHAR(5) NOT NULL,
    `Wed` VARCHAR(5) NOT NULL,
    `Thu` VARCHAR(5) NOT NULL,
    `Fri` VARCHAR(5) NOT NULL,
    `Sat` VARCHAR(5) NOT NULL,
    `Sun` VARCHAR(5) NOT NULL,
    PRIMARY KEY (`OperateID`),
    CHECK(Mon IN('OPEN', 'CLOSE')),
    CHECK(Tue IN('OPEN', 'CLOSE')),
    CHECK(Wed IN('OPEN', 'CLOSE')),
    CHECK(Thu IN('OPEN', 'CLOSE')),
    CHECK(Fri IN('OPEN', 'CLOSE')),
    CHECK(Sat IN('OPEN', 'CLOSE')),
    CHECK(Sun IN('OPEN', 'CLOSE')),
    CONSTRAINT `oper_day` FOREIGN KEY (`OperateID`) REFERENCES `Operating`
);
```

Addr **Contact** **master** **New Fac**

Traffic

BusStop_db

```
CREATE TABLE `Traffic` (
    `trafficID`     int(11) NOT NULL,
    `ID`            int(11) NOT NULL,
    `FacBusStopName` text DEFAULT NULL,
    PRIMARY KEY (`trafficID`),
    KEY `facility_traffic_idx` (`ID`),
    CONSTRAINT `facility_traffic` FOREIGN KEY (`ID`) REFERENCES `Facility`
);
CREATE TABLE `BusStop_DB` (
    `busStopID`     int(11) NOT NULL,
    `busStopName` varchar(100) NOT NULL,
    `busNumber`     text NOT NULL,
    PRIMARY KEY (`busStopID`)
);
```
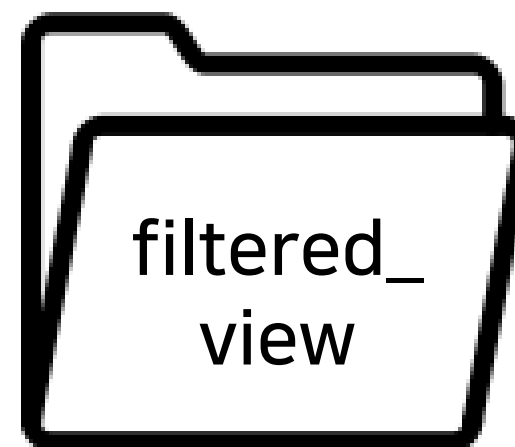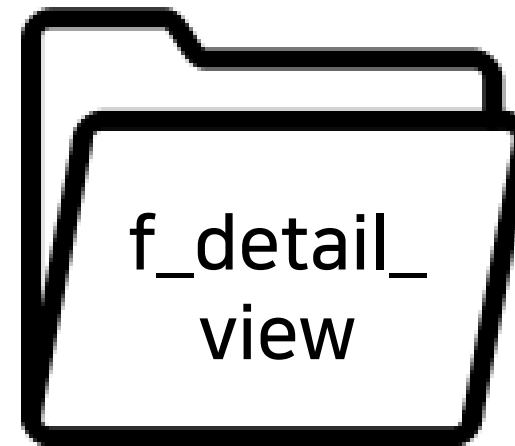
Charge_ Weekday **Charge_ Weekend**

Hours_ Weekday **Hours_ Weekend** **Comment**

02.
Project Outcomes as the Solution
- DB Schema

- views

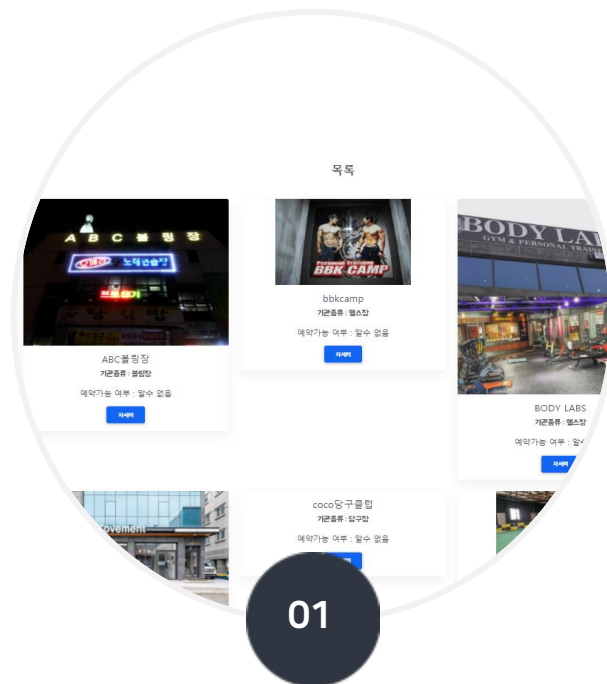f_detail_view

filtered_view

f_detail_view

filtered_view

```sql
SELECT * FROM dbproject.Facility as F
INNER JOIN dbproject.Contact as C ON F.ID = C.ID
INNER JOIN dbproject.Addr as A ON F.ID=A.ID
INNER JOIN dbproject.Operating as O ON O.ID = F.ID
INNER JOIN dbproject.Charge_Weekend as CWe ON CWe.OperateID = O.OperateID
INNER JOIN dbproject.Charge_Weekday as CWd ON CWd.OperateID = O.OperateID
INNER JOIN dbproject.Hours_Weekday as HWd ON O.OperateID = HWd.OperateID
INNER JOIN dbproject.Hours_Weekend as HWe ON O.OperateID = HWe.OperateID
INNER JOIN dbproject.OperatingDay as OD ON O.OperateID = OD.OPerateID
INNER JOIN dbproject.Traffic as T ON F.ID = T.ID
INNER JOIN dbproject.BusStop_DB as B ON T.FacBusStopName= B.busStopName
INNER JOIN dbproject.Commentary as Cm ON O.OperateID = Cm.OperateID ;
```
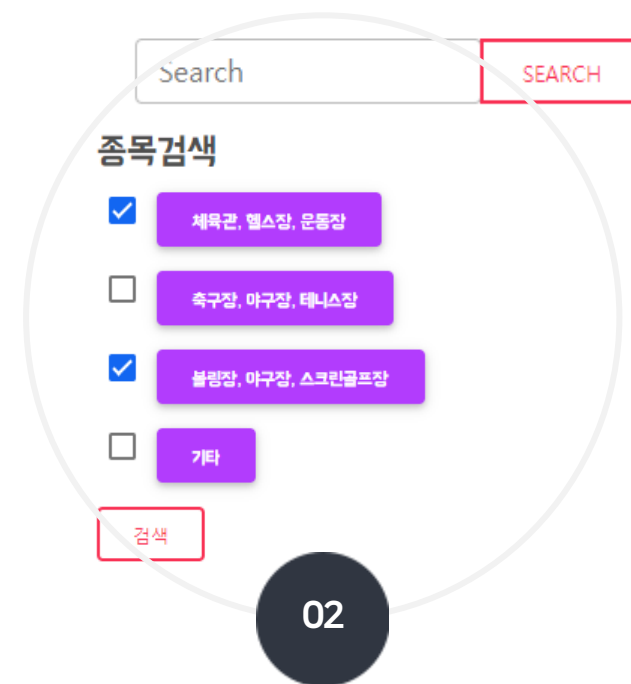
03. Project Outcomes as the Solution
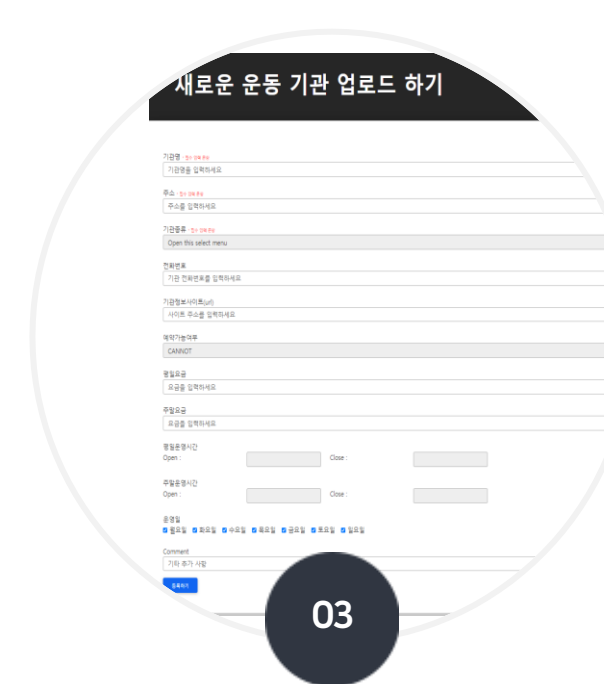# - DB Application

- ## key functions

01

View Facility Lists

See Pohang Sports Facilities with Image,
Name, and available for reservation.
Arranged in (Korean) Alphabetical order.

02

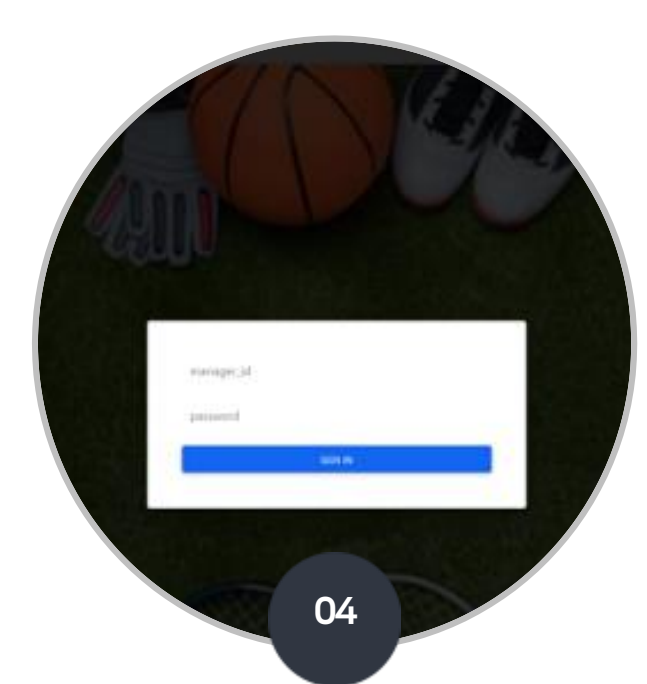## Searching by name or type

Search and view facilities by type,
Or search name by keyword.

03

Upload New Facility

Register new Facility
that are not registered on the site.

It MUST be approved by administrator to be
registered on the site.

04

Administrator

Administrator can log-in to the website
to accept or refuse new facility registrations.

03. Project Outcomes as the Solution
- DB Application

- key functions

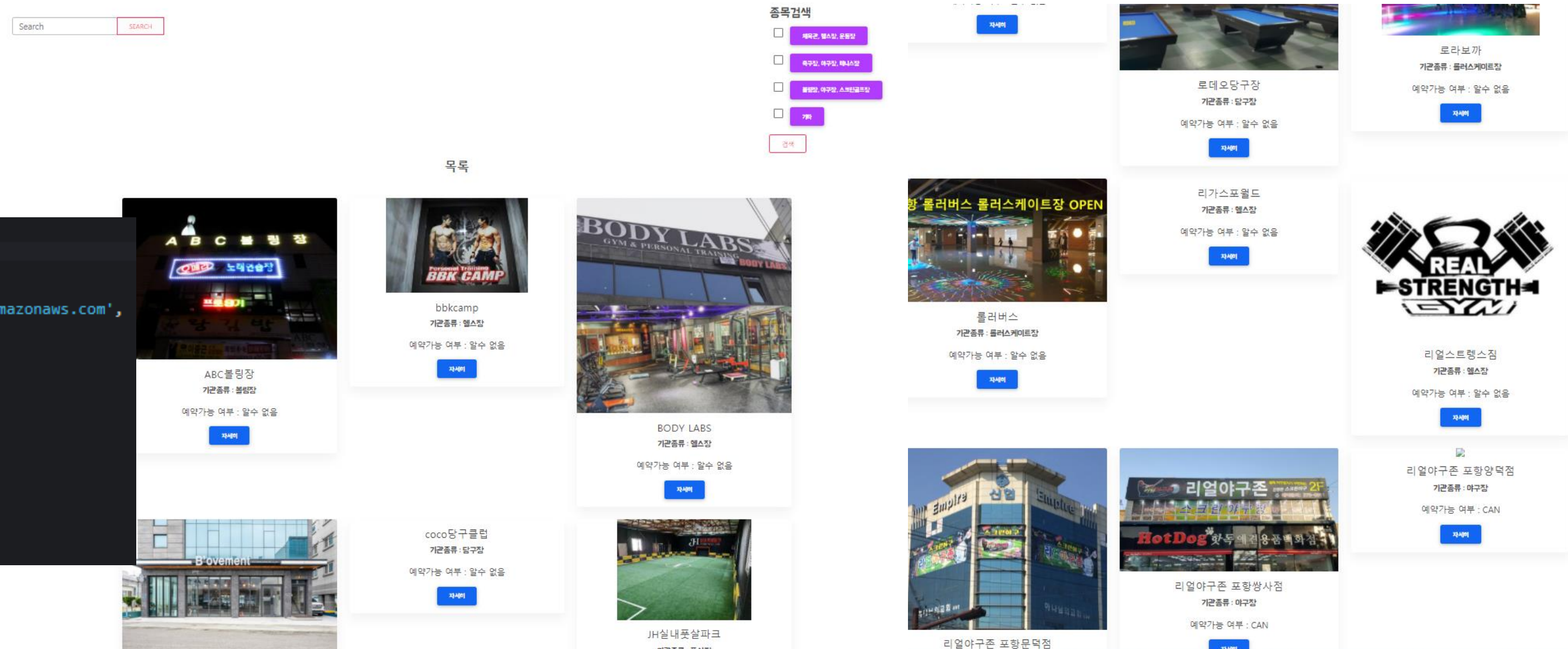**01** **View Facility Lists**


```
// Mysql 접속
var mysql = require('mysql');

var conn = mysql.createConnection({
    host: 'webclass-mariadb-1.cbkdrnoiabap.us-east-1.rds.amazonaws.com',
    user: 'admin',
    password: 'xowptnwe!914',
    port: 3306,
    database: 'dbproject'
});

//const query_sel = "SELECT * FROM dbproject.Facility";

var g_result;

conn.connect(function(err) {
    if (err) throw err;
```

```
if (type_opt1 || type_opt2 || type_opt3 || type_opt4)
    query = 'ALTER VIEW dbproject.filtered_view AS SELECT * FROM dbproject.Facility WHERE type IN ('+ category_list+ ') AND ID NOT IN (SELECT ID FROM dbproject.NewFac);'
else{
    query = 'ALTER VIEW dbproject.filtered_view AS SELECT * FROM dbproject.Facility WHERE ID NOT IN (SELECT ID FROM dbproject.NewFac);'
}
    // Make or create filtered view
```

03. Project Outcomes as the Solution
- DB Application

- key functions

02 **Searching by name or type**

종목검색

☑ 체육관, 헬스장, 운동장

☐ 축구장, 야구장, 테니스장

☑ 볼링장, 야구장, 스크린골프장

☐ 기타

검색

```
var gym_def = ',\'체육관\', \'헬스장\', \'운동장\'';
var field_def = ',\'축구장\', \'야구장\', \'테니스장\'';
var indoor_def = ',\'볼링장\', \'탁구장\', \'스크린골프장\'';
var others_def = ', \'기타\'';
```

```
if (type_opt1 || type_opt2 || type_opt3 || type_opt4)
    query = 'ALTER VIEW dbproject.filtered_view AS SELECT * FROM dbproject.Facility WHERE type IN ('+ category_list+ ') AND ID NOT IN (SELECT ID FROM dbproject.NewFac);'
else{
    query = 'ALTER VIEW dbproject.filtered_view AS SELECT * FROM dbproject.Facility WHERE ID NOT IN (SELECT ID FROM dbproject.NewFac);'
}
    // Make or create filtered view
```

```
query = 'SELECT COUNT(*) AS `count` FROM dbproject.filtered_view';

conn.query(query,
function (err, result, fields) {
    if (err) throw err;
    const totalCount = Number(result[0].count); // NOTE: 전체 글 개수.
    const pnTotal = Math.ceil(totalCount / contentSize); // NOTE: 페이지네이션의 전체 카운트
    const pnStart = ((Math.ceil(pageNum / pnSize) - 1) * pnSize) + 1; // NOTE: 현재 페이지의 페이지네이션 시작 번호.

    let pnEnd = (pnStart + pnSize) - 1;
```

Search   SEARCH

```
if (keyword != undefined)
    query = 'ALTER VIEW dbproject.filtered_view AS SELECT * FROM dbproject.Facility WHERE name like \'%'+ keyword +'%\' AND ID NOT IN (SELECT ID FROM dbproject.NewFac);'
```

03. Project Outcomes as the Solution
- DB Application

- key functions

03 **Upload New Facility**

새로운 운동 기관 업로드 하기


```
//mysql 접속 정보
var conn = mysql.createConnection({
    host: 'webclass-mariadb-1.cbkdrnoiabap.us-east-1.rds.amazonaws.com',
    user: 'admin',
    password:             ,
    port: 3306,
    database: 'dbproject'
});

//mysql 접속하기
conn.connect(function(err){
    if(err) throw err;
    console.log("successfully connected");
});
```

```
var nextID;
//DB내용 보기
var selectSQL = 'SELECT ID FROM dbproject.Facility WHERE ID = (SELECT max(ID) FROM dbproject.Facility)';
conn.query(selectSQL, function(err, rows, fields){
    if(err) throw err
    else{
        console.log("id",rows[0]);
        nextID = rows[0].ID+1;
        console.log("nextid2",nextID);
    }
});

var nextUnregID;
var selectSQL = 'SELECT Unreg_ID FROM dbproject.NewFac WHERE Unreg_ID = (SELECT max(Unreg_ID) FROM dbproject.NewFac)';
conn.query(selectSQL, function(err, rows, fields){
    if(err) throw err
    else{
        console.log("id2",rows[0]);
        if(rows[0] === undefined){
            nextUnregID = 1;
            console.log("newfacid", nextUnregID);
        }
        else{
            nextUnregID = rows[0].Unreg_ID+1;
            console.log("newfacid2", nextUnregID);
        }
    }
});
```

등록한 정보 확인

기관명:	s
주소:	s
기관종류	풋살장
전화번호	01054345345
기관정보사이트(url)	http://www.com
예약가능여부	can
평일요금	15
주말요금	d

평일운영시간
Open :　　　　　　　　　　Close :

주말운영시간
Open :　　　14:00　　　　Close :

운영일
월요일:　　OPEN
화요일:　　OPEN
수요일:　　OPEN
목요일:　　OPEN
금요일:　　OPEN
토요일:　　OPEN
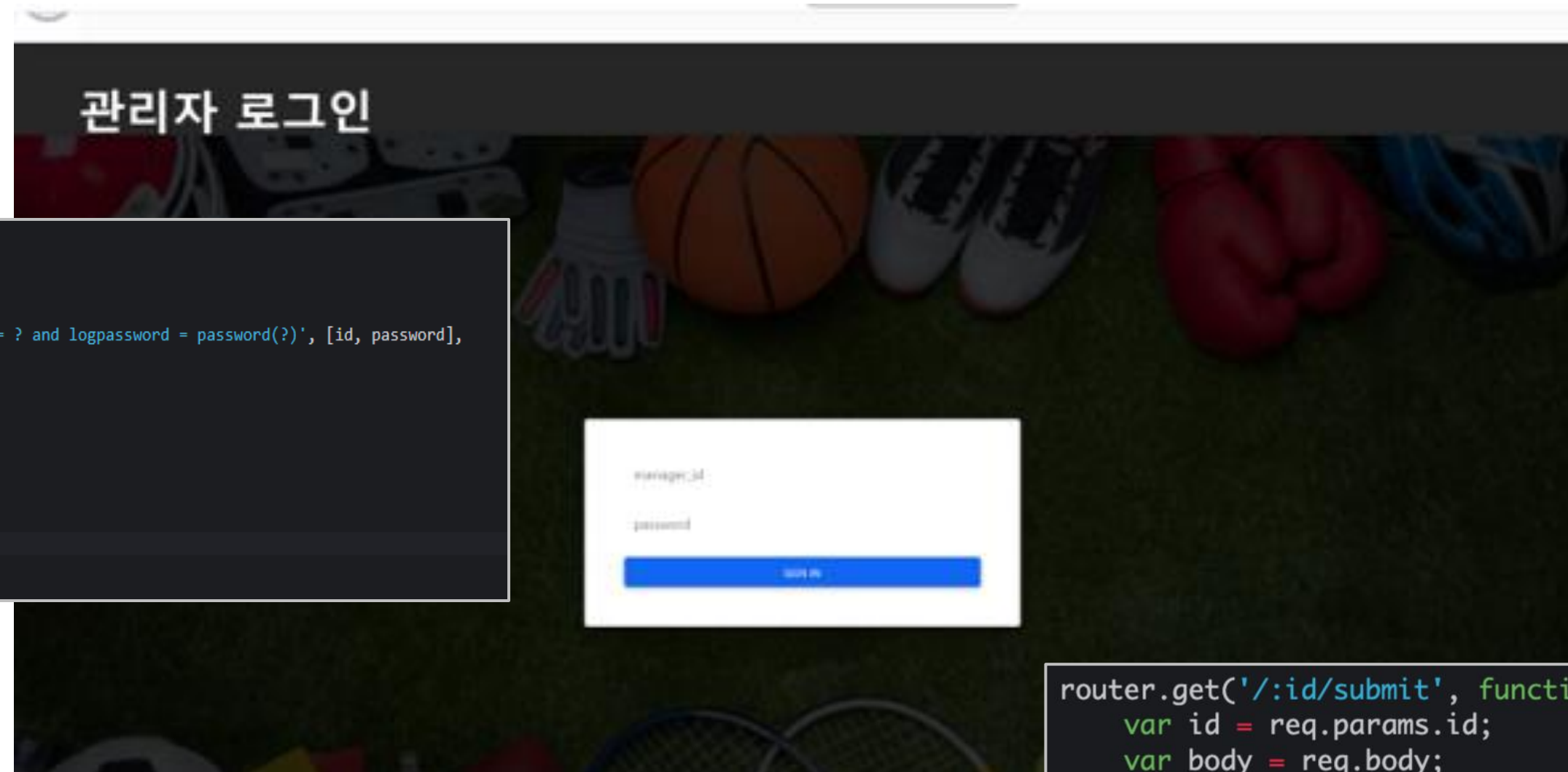일요일:　　OPEN

Comment

03. Project Outcomes as the Solution
- DB Application

- key functions

04 **Administrator**

관리자 로그인

```
router.post('/SignClick', function(req, res){
    var id = req.body.ID;
    var password = req.body.password;

    conn.query('SELECT * FROM dbproject.master WHERE loginID = ? and logpassword = password(?)', [id, password],
    function(err, row, fields){
        if(err) throw err;
        else if(row.length == 0){
            res.redirect('/login/loginerror');

        }
        else{
            console.log("succes");
            res.redirect('/adminlist');
        }
    });
});
```

manager_id

password

SIGN IN

뒤로 가기   수락 하기

```
router.get('/:id/submit', function (req, res) {
    var id = req.params.id;
    var body = req.body;
    console.log(body);

    var sql = 'DELETE FROM dbproject.NewFac WHERE ID=' + id + ';';
    //var params = [body.id, body.title, body.content];
```

03. Project Outcomes as the Solution
- DB Application

- development environment

Tool
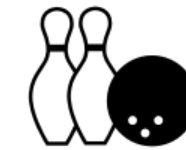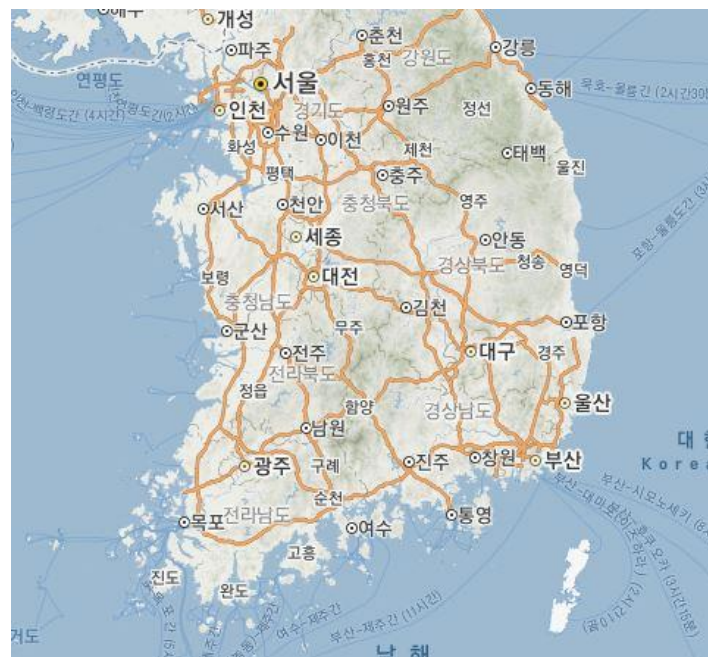

Application Server

Database Server

Library

Language

04. Summary and Broad Impact

Primary Target

Summary & Impact

Gather information about widespread sports facilities in one web, so that user can be easily view or search.

05. Demonstration

Thankyou :)

Individual contribution

- Eunchong Ko 19.25%
- Jeongyoung Chae 29.75%
- Sojung Hwang 29.25%
- Seongyeong Kim 21.75%

■ 은총　■ 정영　■ 소정　■ 성영