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Pacility

Pohang-sport-facility

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01. Problem Specification

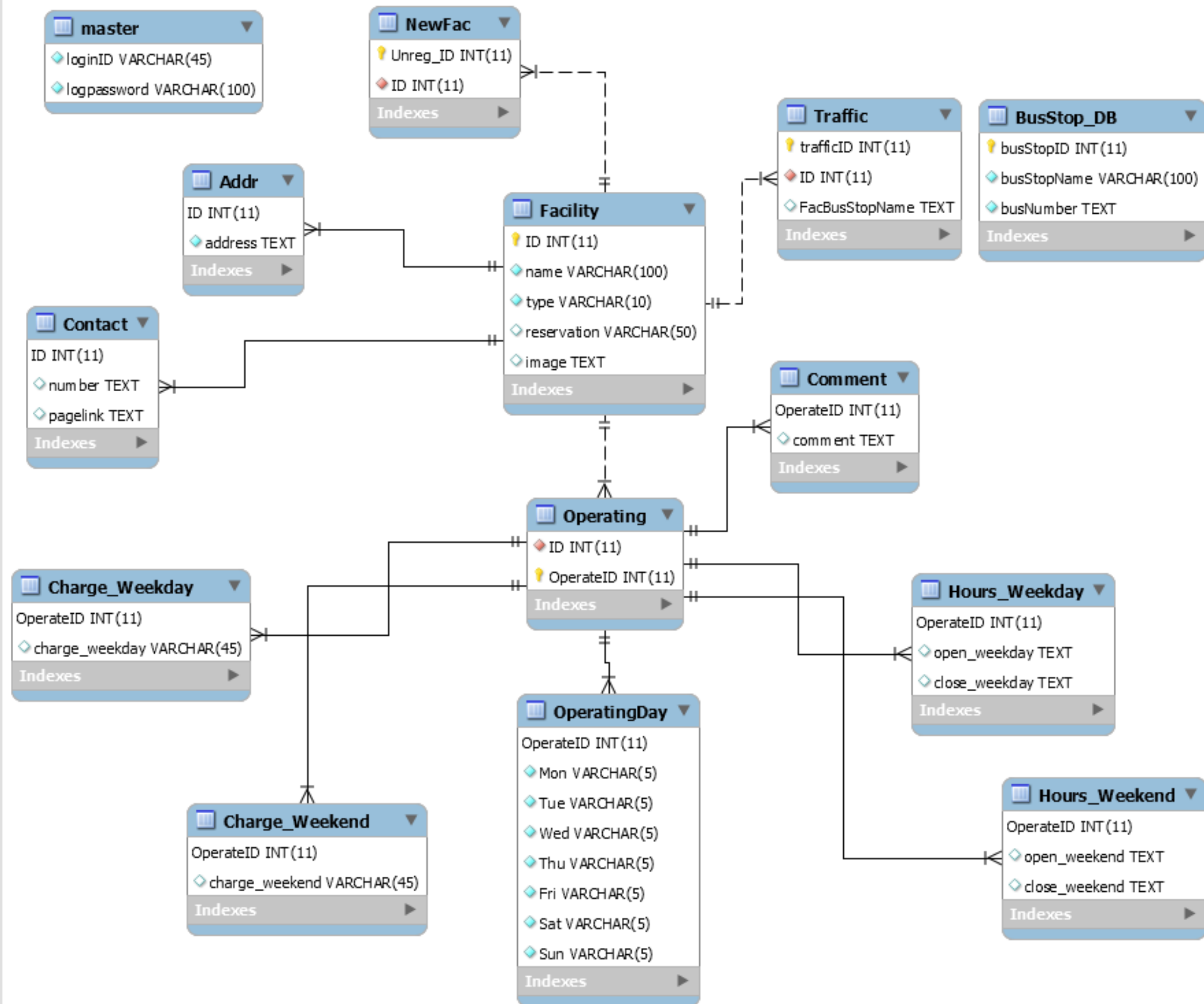
- Lack of information on sports facilities
- Inaccurate information spread on websites.



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

02. Project Outcomes as the Solution - DB Schema

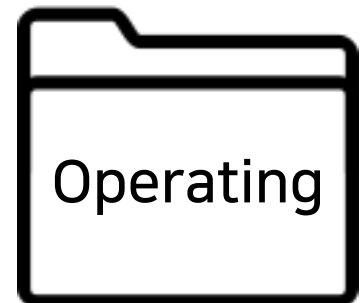
- tables and attributes



- tables and attributes



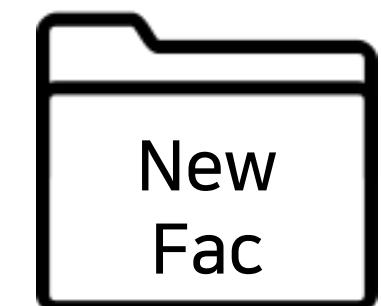
```
CREATE TABLE `Facility` (  
  `ID` int(11) NOT NULL,  
  `name` varchar(100) CHARACTER SET utf8 NOT NULL,  
  `type` varchar(10) CHARACTER SET utf8 NOT NULL,  
  `reservation` varchar(50) DEFAULT NULL,  
  `image` text DEFAULT NULL,  
  PRIMARY KEY (`ID`)  
);
```



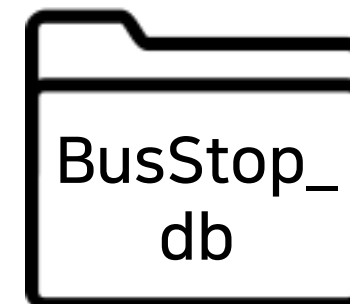
```
CREATE TABLE `Operating` (  
  `ID` int(11) NOT NULL,  
  `OperateID` int(11) NOT NULL,  
  PRIMARY KEY (`OperateID`),  
  KEY `facility_oper_idx` (`ID`),  
  CONSTRAINT `facility_oper` FOREIGN KEY (`ID`) REFERENCES `Facility`  
);
```



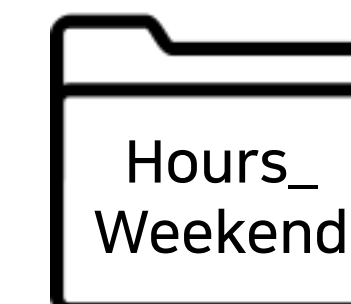
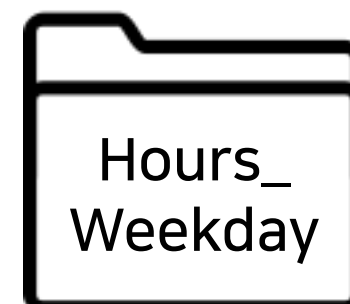
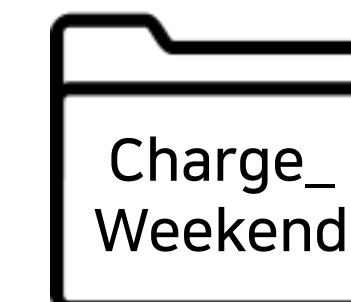
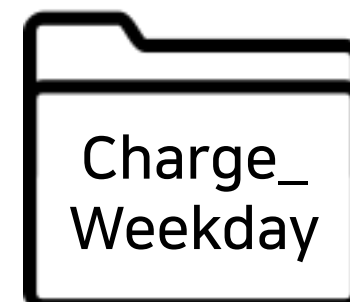
```
CREATE TABLE `OperatingDay` (  
  `OperateID` int(11) NOT NULL,  
  `Mon` VARCHAR(5) NOT NULL,  
  `Tue` VARCHAR(5) NOT NULL,  
  `Wed` VARCHAR(5) NOT NULL,  
  `Thu` VARCHAR(5) NOT NULL,  
  `Fri` VARCHAR(5) NOT NULL,  
  `Sat` VARCHAR(5) NOT NULL,  
  `Sun` VARCHAR(5) NOT NULL,  
  PRIMARY KEY (`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`  
);
```



```
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`  
);
```



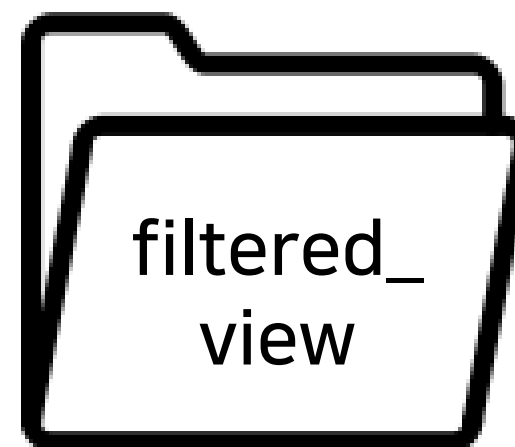
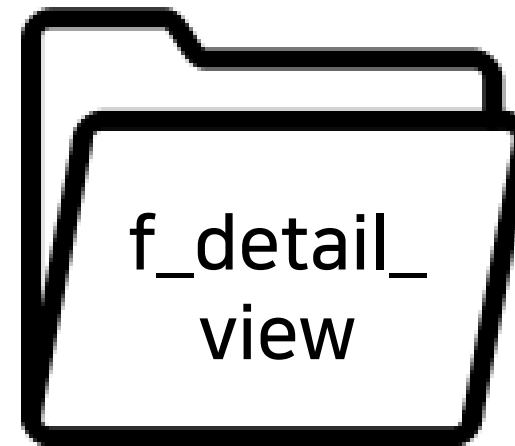
```
CREATE TABLE `BusStop_DB` (  
  `busStopID` int(11) NOT NULL,  
  `busStopName` varchar(100) NOT NULL,  
  `busNumber` text NOT NULL,  
  PRIMARY KEY (`busStopID`)  
);
```



02. Project Outcomes as the Solution - DB Schema

- views

▶ f_detail_view
▶ filtered_view

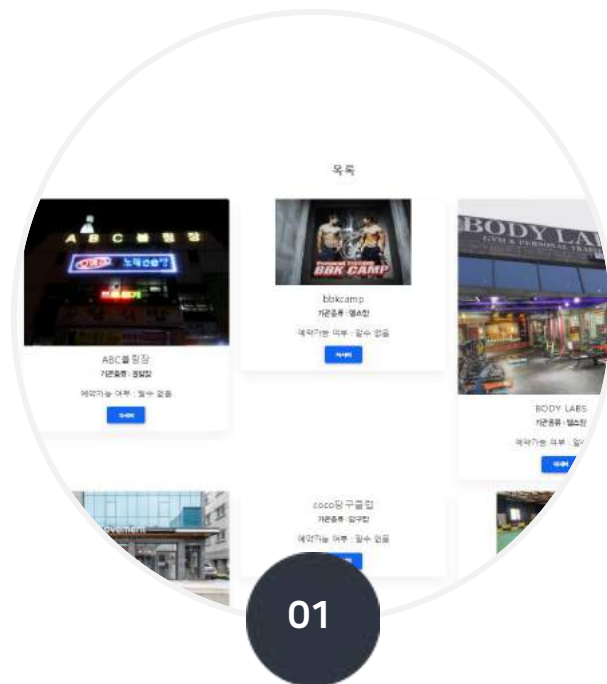


```
SELECT * FROM dbproject.Facility as F
INNER JOIN dbproject.Contact as C ON F.ID = C.ID
INNER JOIN dbproject.Addr as A ON F.ID=A.ID
INNER JOIN dbproject.Operating as O ON O.ID = F.ID
INNER JOIN dbproject.Charge_Weekend as CWe ON CWe.OperateID = O.OperateID
INNER JOIN dbproject.Charge_Weekday as CWd 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

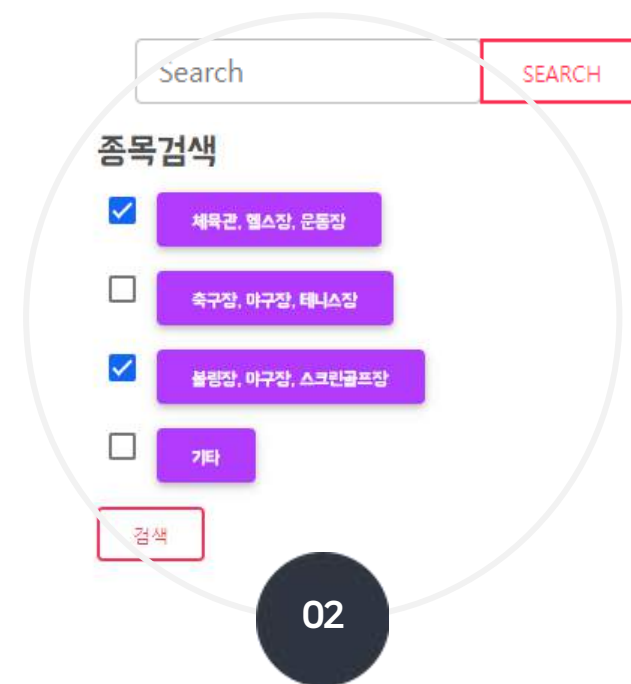
- DB Application

- key functions



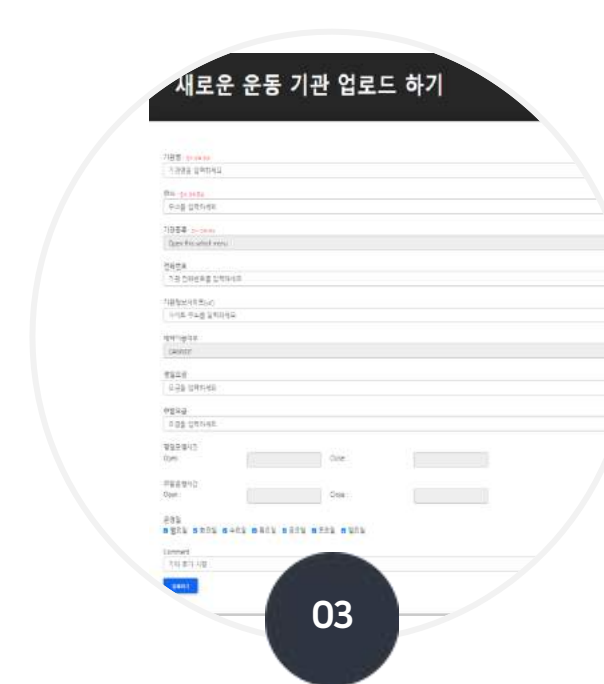
View Facility Lists

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



Searching by name or type

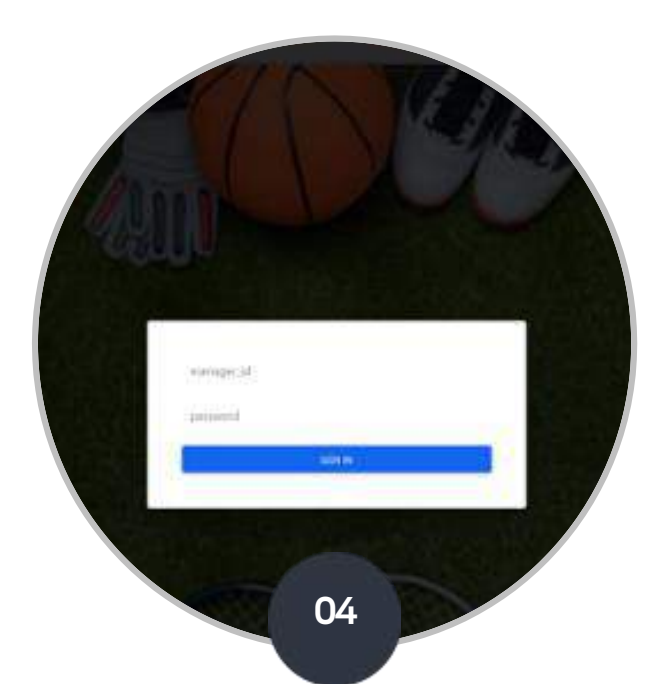
Search and view facilities by type, Or search name by keyword.



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.



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;
});
```


종류검색

- ☐ 체육관, 헬스장, 운동장
 - ☐ 축구장, 야구장, 배드민턴장
 - ☐ 볼링장, 야구장, 스포츠센터
 - ☐ 기타
-

목록



ABC볼링장
기관종류: 볼링장
예약가능 여부: 알수 없음



bbkcamp
기관종류: 헬스장
예약가능 여부: 알수 없음



BODY LABS
기관종류: 헬스장
예약가능 여부: 알수 없음



롤러버스
기관종류: 롤러스케이트장
예약가능 여부: 알수 없음



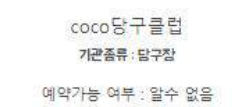
리가스포월드
기관종류: 헬스장
예약가능 여부: 알수 없음



리얼스트렝스짐
기관종류: 헬스장
예약가능 여부: 알수 없음



B'ovement
기관종류: 볼링장
예약가능 여부: 알수 없음




coco당구클럽
기관종류: 당구장
예약가능 여부: 알수 없음



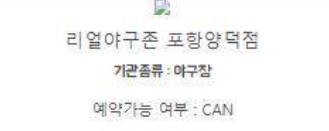
JH실내풋살파크
기관종류: 풋살장
예약가능 여부: 알수 없음



리얼야구존
기관종류: 야구장
예약가능 여부: 알수 없음



리얼야구존
기관종류: 야구장
예약가능 여부: 알수 없음



리얼야구존
기관종류: 야구장
예약가능 여부: 알수 없음

```
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, 마구장, 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 / pageSize); // NOTE: 페이지네이션의 전체 카운트  
  const pnStart = ((Math.ceil(pageNum / pageSize) - 1) * pageSize) + 1; // NOTE: 현재 페이지의 페이지네이션 시작 번호.  
  let pnEnd = (pnStart + pageSize) - 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

기관명

기관명을 입력하세요

주소

주소를 입력하세요

기관종류

Open this select menu

전화번호

기관 전화번호를 입력하세요

기관정보사이트(url)

사이트 주소를 입력하세요

예약가능여부

CANNOT

평일요금

요금을 입력하세요

주말요금

요금을 입력하세요

평일운영시간

Open : Close :

주말운영시간

Open : Close :

운영일

☒ 월요일 ☒ 화요일 ☒ 수요일 ☒ 목요일 ☒ 금요일 ☒ 토요일 ☒ 일요일

Comment

기타 추가 사항

등록하기

```
//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 nextIU;
//DB내 용 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

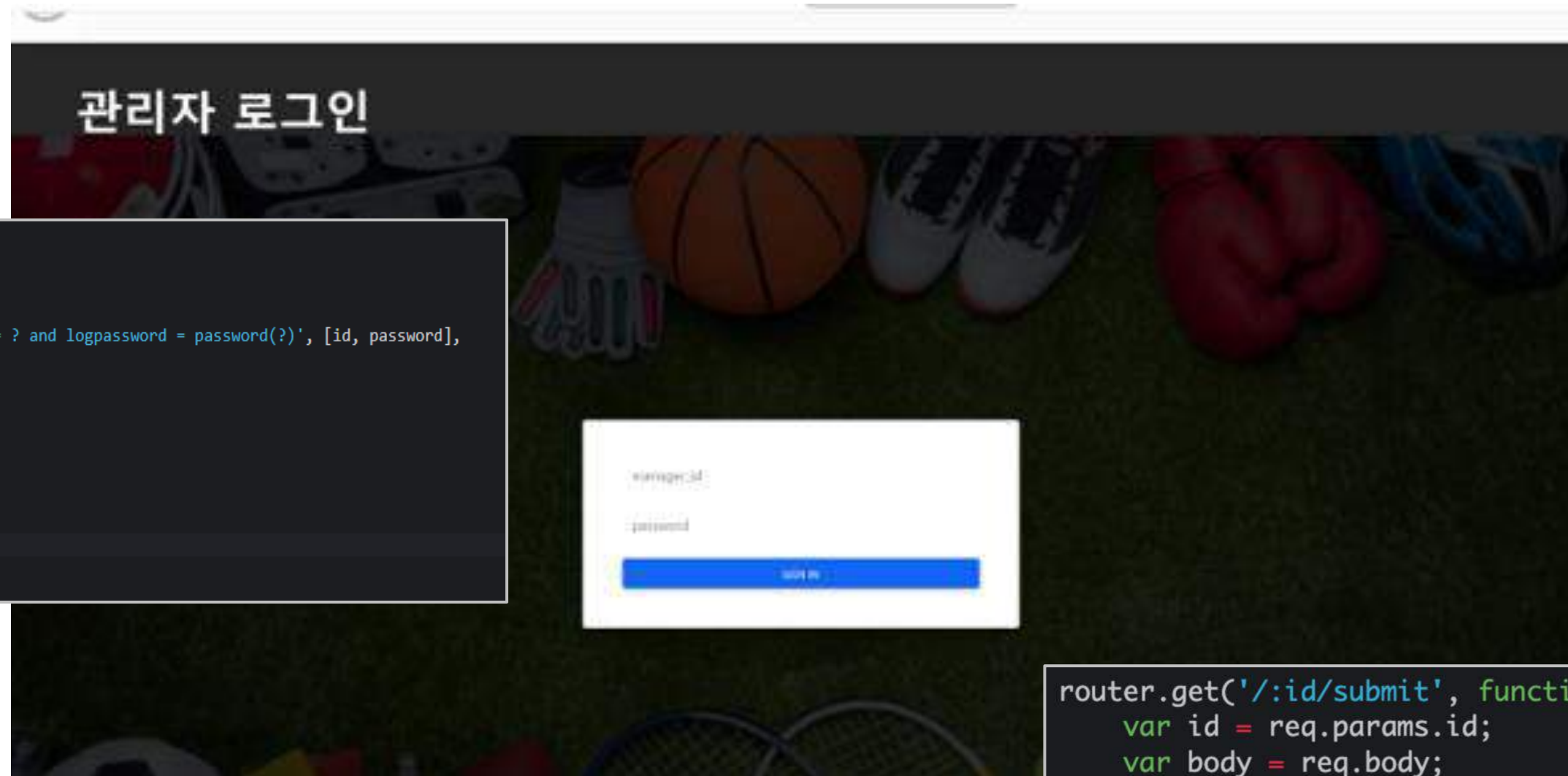
메인으로 돌아가기

03. Project Outcomes as the Solution

- DB Application

- key functions

04 Administrator



```
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');
    }
  });
});
```

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



Amazon
EC2



Amazon
RDS



Tool



Application Server



MariaDB

Database Server



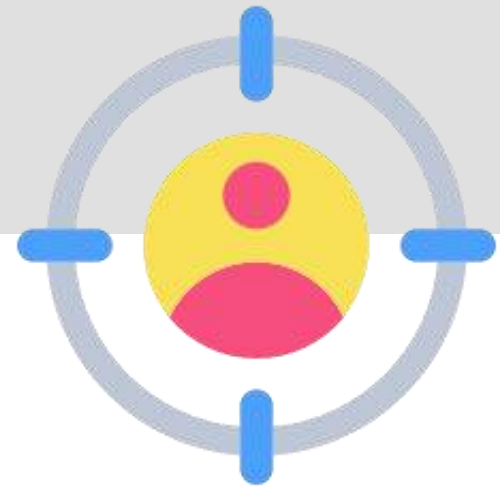
Library



EJS
<% Embedded JavaScript %>

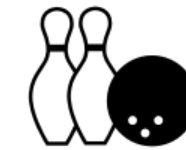
Language

04. Summary and Broad Impact



Primary Target

poohang
포항시



Summary & Impact

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

Thank you :)

