

api/add_vote.php

```
<?php
include_once "../db.php";

/* echo "<pre>";
print_r($_POST);
echo "</pre>"; */

$sql_chk_subject="select count(*) from `topics` where subject='{$_POST['subject']}'";
$chk=$pdo->query($sql_chk_subject)->fetchColumn();
if($chk>0){
    echo "此主題已被使用過,請修改主題內容";
    echo "<a href='../back/add_vote.php'>返回新增主題</a>";
}else{
    $sql="INSERT INTO `topics`(`subject`, `open_time`, `close_time`, `type`)
        VALUES
        ('{$_POST['subject']}', '{$_POST['open_time']}', '{$_POST['close_time']}', '{$_POST['type']}')";
    $pdo->exec($sql);

    //寫入選項
    $sql_subject_id="select `id` from `topics` where `subject`='{$_POST['subject']}'";
    //echo $sql_subject_id;
    $subject_id=$pdo->query($sql_subject_id)->fetchColumn();

    //echo $subject_id;

    foreach($_POST['description'] as $desc){
        if($desc!=""){
            $sql_option="INSERT INTO `options`(`description`, `subject_id`)
                VALUES ('$desc', '$subject_id')";
            $pdo->exec($sql_option);
        }
    }
}
header("location:../backend.php");
```

api/del_option.php

```
<?php
include_once "../db.php";

$subject_id=$pdo->query("select `subject_id` from `options` where `id`='{$_GET['id']}'")
    ->fetchColumn();

$pdo->exec("delete from `options` where `id`='{$_GET['id']}'");

header("location:../backend.php?do=result&id=$subject_id");
```

api/del_vote.php

```
<?php
include_once "../db.php";

$pdo->exec("delete from `topics` where `id`='{$_GET['id']}'");
$pdo->exec("delete from `options` where `subject_id`='{$_GET['id']}'");

header("location:../backend.php");
```

api/edit_vote.php (p1)

```
<?php
include_once "../db.php";

$sql="update `topics`
    set `subject`='{$_POST['subject']}',
        `open_time`='{$_POST['open_time']}',
        `close_time`='{$_POST['close_time']}',
        `type`='{$_POST['type']}'
    where `id`='{$_POST['subject_id']}'";

$pdo->exec($sql);
$options=$pdo->query("select `id` from `options`
                    where `subject_id`='{$_POST['subject_id']}'")
    ->fetchAll(PDO::FETCH_ASSOC);

//將資料表中的選項撈出來和表單中的選項id做比對.
if(!empty($options)){
    if(isset($_POST['opt_id'])){

        //以迴圈的方式將資料表中的選項id一個一個拿出來做檢查
        foreach($options as $opt){

            //如果資料表中的id沒有在表單中的選項id陣列，則刪除
            if(!in_array($opt['id'],$_POST['opt_id'])){
                $pdo->exec("delete from `options` where `id`='{$opt['id']}'");
            }
        }
    }else{

        //如果表單選項id沒有傳來表示要刪除全部的選項資料
        $pdo->exec("delete from `options` where `subject_id`='{$_POST['subject_id']}'");
    }
}

//更新資料中已有的選項內容
if(isset($_POST['opt_id'])){
    foreach($_POST['opt_id'] as $idx => $id){
        $pdo->exec("update `options` set `description`='{$_POST['description'][$idx]}'
        where `id`='{$id}'");
        unset($_POST['description'][$idx]);
    }
}
```

api/edit_vote.php (p2)

//處理新增的選項

```
if(!empty($_POST['description'])){
    foreach($_POST['description'] as $desc){
        $pdo->exec("insert into `options` (`description`,`subject_id`)
values('$desc','{$_POST['subject_id']}')");
    }
}
```

```
/* echo "<pre>";
print_r($options);
echo "<pre>";
echo "<pre>";
print_r($_POST['description']);
echo "<pre>";
echo "<pre>";
print_r($_POST['opt_id']);
echo "<pre>";
*/
```

```
header("location:../backend.php");
```

api/login.php

```
<?php include_once "../db.php";

$sql="select count(*) from `members`
      where `acc`='{$_POST['acc']}' && `pw`='{$_POST['pw']}'";

$chk=$pdo->query($sql)->fetchColumn();

if($chk){
    $_SESSION['login']=$_POST['acc'];

    if(isset($_SESSION['position'])){
        header("location:".$_SESSION['position']);
        unset($_SESSION['position']);
        exit();
    }

    header("location:../index.php");
}else{
    header("location:../index.php?do=login&error=1");
}
```

api/logout.php

```
<?php include_once "../db.php";

unset($_SESSION['login']);

header("location:../index.php");
?>
```

api/reg.php

```
<?php include_once "../db.php";
```

```
//可以選擇使用編碼來為密碼或資料加密
```

```
/* $pw=md5($_POST['pw']);
```

```
echo $pw; */
```

```
if(!empty($_POST) && $_POST['acc']!= "" && $_POST['pw']!= ""){
```

```
    $sql="insert into `members` (`acc`,`pw`,`name`,`addr`,`email`)
```

```
        values('".$_POST['acc']."',
```

```
                '".$_POST['pw']."',
```

```
                '".$_POST['name']."',
```

```
                '".$_POST['addr']."',
```

```
                '".$_POST['email']."'');
```

```
$pdo->exec($sql);
```

```
    header("location:../index.php");
```

```
}else{
```

```
    header("location:../index.php?do=reg&error=1");
```

```
}
```


api/vote.php

```
<?php
include_once "../db.php";
$opt=$_POST['desc'];

/* 1.單選 $_POST['desc']=3;
   2.多選 $_POST['desc']=[1,3,6]; */

$subject_id = $_POST['subject_id'];
$subject_type=$pdo->query("select `type` from `topics` where `id`='$subject_id'")
->fetchColumn();

switch($subject_type){
    case 1:
        $pdo->exec("update `options` set `total`=`total`+1 where `id`='$opt'");
        break;
    case 2:
        foreach($opt as $opt_id){
            $pdo->exec("update `options` set `total`=`total`+1 where `id`='$opt_id'");
        }
        break;
}

//記錄使用者投票狀況
if(isset($_SESSION['login'])){
    $mem_id=$pdo->query("select `id` from `members`
                        where `acc`='{$_SESSION['login']}'")->fetchColumn();
}else{
    $mem_id=0;
}
$topic_id=$_POST['subject_id'];
$vote_time=date("Y-m-d H:i:s");
/*
    serialize()=>將陣列轉成可儲存的字串格式
    json_encode()=>將陣列轉成json字串格式
*/
$records=serialize([$_POST['subject_id']=>$opt]);

$sql="insert into `logs`(`mem_id`,`topic_id`,`vote_time`,`records`)
      values('$mem_id','$topic_id','$vote_time','$records')";
$pdo->exec($sql);

header("location:../index.php?do=result&id=$subject_id");
```

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>新增主題</title>
    <link rel="stylesheet" href="../../css/style.css">
    <script src="../../js/jquery-3.7.0.min.js"></script>
</head>
<body>
<main>

    <h1>新增主題</h1>
    <form action="../../api/add_vote.php" method="post">
        <div>
            <label for="subject">主題說明：</label>
            <input type="text" name="subject" id="subject" class="subject-input">
        </div>
        <div class="time-set">
            <div class="time-item">
                <label for="open_time">開放時間：</label>
                <input type="datetime-local" name="open_time" id="open_time">
            </div>
            <div class="time-item">
                <label for="close_time">關閉時間：</label>
                <input type="datetime-local" name="close_time" id="close_time">
            </div>
        </div>
        <div>
            <label for="type">單複選：</label>
            <input type="radio" name="type" value="1">單選&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~
            <input type="radio" name="type" value="2">複選
        </div>
        <hr>
        <div class="options">
            <div>
                <label for="description">項目：</label>
                <input type="text" name="description[]" class="description-input">
                <span onclick="addOption()">+</span>
                <span onclick="removeOption(this)">-</span>
            </div>
        </div>
```

back/add_vote.php (p2)

```
<div>
  <input type="submit" value="新增">
</div>
</form>
</main>
</body>
</html>

<script>
function addOption(){
  let opt=`<div>
    <label for="description">項目 : </label>
    <input type="text" name="description[]" class="description-input">
    <span onclick="addOption()">+</span>
    <span onclick="removeOption(this)">-</span>
  </div>`
  $(".options").append(opt);
}

function removeOption(el){
  let dom=$(el).parent()
  $(dom).remove();
}

</script>
```

back/close.php

```
<?php
include_once "../db.php";

$subject=$pdo->query("select * from `topics` where `id`='{$_GET['id']}'")
->fetch(PDO::FETCH_ASSOC);

//先計算投票期間長度
$duration=strtotime($subject['close_time'])-strtotime($subject['open_time']);

$new_close=date("Y-m-d H:i:s",strtotime("now")-1);
$new_open=date("Y-m-d H:i:s",strtotime("now")-$duration);

$sql="update `topics` set `open_time`='$new_open',`close_time`='$new_close'
where `id`='{$_GET['id']}'";

$pdo->exec($sql);

header("location:../backend.php");
```

back/del_vote.php

```
<?php include_once "../db.php";  
$row=$pdo->query("select * from `topics` where id='{$_GET['id']}'")->fetch(PDO::FETCH_ASSOC);  
?>
```

<h3>你確定要刪除以下這個投票主題及相關的資料嗎?</h3>

<div><?=\$row['subject'];?></div>

<div>

 <button onclick="location.href='../api/del_vote.php?id=<?=\$_GET['id'];?>'>確定刪除</button>

 <button onclick="location.href='../backend.php'">取消</button>

</div>

back/edit_vote.php (p1)

[illegible]

back/edit_vote.php (p2)

```
<div>
  <label for="description">項目 : </label>
  <input type="text" name="description[]" class="description-input"
    value="<?=$opt['description'];?>">
  <span onclick="addOption()">+</span>
  <span onclick="removeOption(this)">-</span>
  <input type="hidden" name="opt_id[]" value="<?=$opt['id'];?>" >
</div>

<?php
}
?>
</div>
<div>
  <input type="hidden" name="subject_id" value="<?=$topic['id'];?>">
  <input type="submit" value="編輯">
</div>
</form>

<script>
function addOption(){
  let opt=`<div>
    <label for="description">項目 : </label>
    <input type="text" name="description[]" class="description-input">
    <span onclick="addOption()">+</span>
    <span onclick="removeOption(this)">-</span>
  </div>`
  $(".options").append(opt);
}

function removeOption(el){
  let dom=$(el).parent()
  $(dom).remove();
}

</script>
```

back/open.php

```
<?php
include_once "../db.php";

$subject=$pdo->query("select * from `topics` where `id`='{$_GET['id']}'")->fetch(PDO::FETCH_ASSOC);

//先計算投票期間長度
$duration=strtotime($subject['close_time'])-strtotime($subject['open_time']);

$new_close=date("Y-m-d H:i:s",strtotime("now")+ $duration);
$new_open=date("Y-m-d H:i:s");
$sql="update `topics` set `open_time`='{$new_open}',`close_time`='{$new_close}' where `id`='{$_GET['id']}'";

$pdo->exec($sql);

header("location:../backend.php");
```


back/result.php

```
<?php
$id=$_GET['id'];
$options=$pdo->query("select * from `options` where `subject_id`=$id")
    ->fetchAll(PDO::FETCH_ASSOC);
$subject=$pdo->query("select * from `topics` where `id`=$id")
    ->fetch(PDO::FETCH_ASSOC);

?>
<h1>投票結果</h1>
<h2><?=$subject['subject'];?></h2>
<ul class="vote-result">
    <li class="vote-option-title">
        <div class="vote-item">序號</div>
        <div class="vote-item">項目</div>
        <div class="vote-item">票數</div>
        <div class="vote-item">操作</div>
    </li>
    <?php
    foreach($options as $idx => $option){
    ?>
    <li class="vote-option">
        <div class="vote-item"><?=$idx+1;?>.
    </div>
        <div class="vote-item"><?=$option['description'];?></div>
        <div class="vote-item"><?=$option['total'];?></div>
        <div class="vote-item">
            <button>更改票數</button>
            <button onclick=
                "location.href='./api/del_option.php?id=<?=$option['id'];?>'>刪除</button>
        </div>
    </li>
    <?php
    }
    ?>
</ul>
```

back/topic_list.php

```
<ul class="topic-list">
  <li class="list-row">
    <div class="list-item-title">主題</div>
    <div class="list-item-title">狀態</div>
    <div class="list-item-title">期間</div>
    <div class="list-item-title">投票數</div>
    <div class="list-item-title">操作</div>
  </li>
<?php
  $sql="SELECT `topics`.`*,
    sum(`options`.`total`) as '總計'
  FROM `topics`,`options`
  WHERE `topics`.`id`=`options`.`subject_id`
  GROUP BY `topics`.`id`;";

  $rows=$pdo->query($sql)->fetchAll(PDO::FETCH_ASSOC);
  foreach($rows as $row){
?>
    <li class="list-row">
      <div class="list-item"><?=$row['subject'];?></div>
      <div class="list-item">
        <?php
          $now=strtotime('now');
          $open=strtotime($row['open_time']);
          $close=strtotime($row['close_time']);

          if($now<$open){
            echo "<div class='await'>未開始</div>";
          }else if($now >= $open && $now <=$close){
            echo "<div class='in-process'>投票中</div>";
          }else{
            echo "<div class='finish'>已截止</div>";
          }

        ?>
      </div>
      <div class="list-item">
        <div><?=$row['open_time'];?></div>
        至
        <div><?=$row['close_time'];?></div>
      </div>
      <div class="list-item">
        <?=$row['總計'];?>
      </div>
    </li>
  }
}
```

```
</div>
<div class="list-item">
<button onclick="location.href='./backend.php?do=edit_vote&id=<?=$row['id'];?>'">
    編輯
</button>
<button onclick="location.href='./back/del_vote.php?id=<?=$row['id'];?>'">
    刪除
</button>
<button onclick="location.href='./back/open.php?id=<?=$row['id'];?>'">
    立即上線
</button>
<button onclick="location.href='./back/close.php?id=<?=$row['id'];?>'">
    立即結束
</button>
<button onclick="location.href='./backend.php?do=result&id=<?=$row['id'];?>'">
    投票結果
</button>
</div>
</li>
<?php
}
?>
</ul>
```

css/style.css (p1)

```
*{
    box-sizing: border-box;
    margin:0;
    padding:0;
}
.time-set{
    display:flex;
    width:70%;
    min-width:615px;
    justify-content: space-between;
}
.time-item{
    margin:5px 0;
}
.subject-input{
    font-family: '微軟正黑體',Arial, Helvetica, sans-serif;
    padding:3px;
    font-size:16px;
    width:50%;
}
main{
    width:60%;
    margin:auto;
}

.topic-list,
.vote-result,
.vote-list{
    list-style-type: none;
}
.list-row,
.vote-option,
.vote-option-title,
.vote-subject,
.vote-subject-title
{
    display:flex;
    width:100%;
}
.list-row div:not(1){
    text-align: center;
}
```

css/style.css (p2)

```
.list-item-title:nth-child(1),  
.list-item:nth-child(1){  
    width:40%;  
}
```

```
.list-item-title:nth-child(2),  
.list-item:nth-child(2){  
    width:10%;  
}
```

```
.list-item-title:nth-child(3),  
.list-item:nth-child(3){  
    width:15%;  
}
```

```
.list-item-title:nth-child(4),  
.list-item:nth-child(4){  
    width:10%;  
}
```

```
.list-item-title:nth-child(5),  
.list-item:nth-child(5){  
    width:25%;  
}
```

```
.vote-option{  
    align-items:center;  
}
```

```
.vote-item{  
    padding:5px;  
    line-height: 20px;  
}
```

```
.vote-item:nth-child(1){  
    width:10%;  
    text-align:center;  
}
```

```
.vote-item:nth-child(2){  
    width:60%;  
}
```

```
.vote-item:nth-child(3){  
    width:20%;  
    text-align:center;  
}
```

css/style.css (p3)

```
.vote-option-title .vote-item{
    text-align: center;
}
/*單多選的按鈕美化*/
.type-info{
    padding:2px 5px;
    border-radius:5px;
    background:lightgreen;
    color:darkgreen;
    border:0;
    font-size:12px;
}
.vip-login{
    padding:2px 5px;
    border-radius:5px;
    background:rgb(248, 227, 33);
    color:rgb(194, 133, 1);
    border:0;
    font-size:12px;
}
.normal{
    padding:2px 5px;
    border-radius:5px;
    background:lightskyblue;
    color:blue;
    border:0;
    font-size:12px;
}
.await{
    padding:2px 5px;
    border-radius:5px;
    background:rgb(248, 227, 33);
    color:rgb(194, 133, 1);
    border:0;
    font-size:12px;
}
.in-process{
    padding:2px 5px;
    border-radius:5px;
    background:lightskyblue;
    color:blue;
    border:0;
    font-size:12px;
}
```

css/style.css (p4)

```
.finish{  
    padding:2px 5px;  
    border-radius:5px;  
    background:lightgreen;  
    color:darkgreen;  
    border:0;  
    font-size:12px;  
}
```

投票系統

請分析需要的功能及設計資料表

主功能分析

- * 需要至少兩張資料表，一張放主題及設定，一張放選項及投票資料
- * 還需要一張來紀錄每次投票的明細(log)
- * 主題要能上下架(設定開始及結束的時間)

.....

畫面分析

- * 要有一個首頁，列表所有正在投票的主題；
 - * 首頁要有登入及註冊功能
 - * 要有已完成的投票查詢
 - * 要有未來將進行的投票查詢
- * 登入頁....
- * 註冊頁....
- * 要有一個後台頁面
 - * 可以新增主題及選項
 - * 可以編輯主題或刪除主題

請充分運用學到的各項網頁知識來美化這個投票系統的畫面

- * 請設計一個頁面可以用來輸入投票的題目
- * 請設計一個頁面可以看到目前進行投票的項目
- * 請設計一個頁面可以看到投票統計的結果

進階功能

- * 請整合註冊及登入系統
- * 能以長條圖或圖像化的方式來呈現統計的結果
- * 能判斷使用者的狀態，避免重覆投票

front/list.php

```
<ul class="vote-list">
    <div class="vote-subject-title">
        <div class="vote-item">序號</div>
        <div class="vote-item">投票主題</div>
        <div class="vote-item">功能</div>
    </div>
<?php
$sql="select * from `topics` where `close_time` >= '".date("Y-m-d H:i:s")."'";
$rows=$pdo->query($sql)->fetchAll();
foreach($rows as $idx => $row){
    ?>
    <li class="vote-subject">
        <div class="vote-item"><?=$idx+1;?></div>
        <div class="vote-item"><?=$row['subject'];?></div>
        <div>
            <button class="type-info">
                <?php
                switch($row['type']){
                    case 1:
                        echo "單選";
                        break;
                    case 2:
                        echo "多選";
                        break;
                }
                ?>
            </button>
            <?php
            if($row['login']==1){
                echo "<button class='vip-login'>";
                echo "會員限定";
            }else{
                echo "<button class='normal' >";
                echo "公開";
            }
            ?>
            </button>
            <button onclick="location.href='?do=vote&id=<?=$row['id'];?>'>我要投票</button>
        </div>
    </li>
    <?php
    }
    ?>
</ul>
```

front/login.php

```
<h1>會員登入</h1>
<?php
if(isset($_GET['error'])){
    echo "<span style='color:red'>";
    echo "帳號或密碼錯誤";
    echo "</span>";
}
if(isset($_GET['msg'])){
    echo "<span style='color:orange'>";
    echo $msg[$_GET['msg']];
    echo "</span>";
}

?>
<form action="./api/login.php" method="post">
    <div>
        <label for="acc">帳號</label>
        <input type="text" name="acc" id="acc">
    </div>
    <div>
        <label for="pw">密碼</label>
        <input type="password" name="pw" id="pw">
    </div>
    <div>
        <input type="submit" value="登入">
    </div>
</form>
```

front/reg.php

```
<?php

if(isset($_GET['error'])){
    echo "<span style='color:red'>";
    echo "帳號或密碼不可為空";
    echo "</span>";
}

?>

<form action="./api/reg.php" method="post">
    <div>
        <label for="acc">帳號</label>
        <input type="text" name="acc" id="acc">
    </div>
    <div>
        <label for="pw">密碼</label>
        <input type="password" name="pw" id="pw">
    </div>
    <div>
        <label for="name">姓名</label>
        <input type="text" name="name" id="name">
    </div>
    <div>
        <label for="addr">地址</label>
        <input type="text" name="addr" id="addr">
    </div>
    <div>
        <label for="email">電子郵件</label>
        <input type="text" name="email" id="email">
    </div>
    <div>
        <input type="submit" value="註冊">
    </div>
</form>
```

front/result.php

```
<?php
```

```
$id=$_GET['id'];
$options=$pdo->query("select * from `options` where `subject_id`=$id")
    ->fetchAll(PDO::FETCH_ASSOC);
$subject=$pdo->query("select * from `topics` where `id`=$id")
    ->fetch(PDO::FETCH_ASSOC);
```

```
?>
```

```
<h1>投票結果</h1>
```

```
<h2><?=$subject['subject'];?></h2>
```

```
<ul class="vote-result">
```

```
    <li class="vote-option-title">
```

```
        <div class="vote-item">序號</div>
```

```
        <div class="vote-item">項目</div>
```

```
        <div class="vote-item">票數</div>
```

```
    </li>
```

```
<?php
```

```
foreach($options as $idx => $option){
```

```
?>
```

```
<li class="vote-option">
```

```
    <div class="vote-item"><?=$idx+1;?>.
```

```
</div>
```

```
    <div class="vote-item"><?=$option['description'];?></div>
```

```
    <div class="vote-item"><?=$option['total'];?></div>
```

```
</li>
```

```
<?php
```

```
}
```

```
?>
```

```
</ul>
```

front/result_list.php

```
<?php

$subjects=$pdo->query("SELECT `topics`.`id`,`topics`.`subject`,
                        sum(`options`.`total`) as '總計'
FROM `topics`,`options`
WHERE `topics`.`id`=`options`.`subject_id`
GROUP BY `topics`.`id`;")->fetchAll(PDO::FETCH_ASSOC);

?>
<h1>選擇你想看的投票項目</h1>
<ul class="vote-result">
    <li class="vote-option-title">
        <div class="vote-item">序號</div>
        <div class="vote-item">主題</div>
        <div class="vote-item">票數</div>
    </li>
    <?php
    foreach($subjects as $idx => $subject){
    ?>
    <li class="vote-option">
        <div class="vote-item"><?=$idx+1;?>.
    </div>
        <div class="vote-item">
            <a href="index.php?do=result&id=<?=$subject['id'];?>">
                <?=$subject['subject'];?>
            </a>
        </div>
        <div class="vote-item"><?=$subject['總計'];?></div>
    </li>
    <?php
    }
    ?>
</ul>
```

front/vote.php

```
<h1>投票</h1>
<?php
/*
    ../,../ -> 相對位置
    / -> 絕對位置
*/
$topic=$pdo->query("select * from `topics` where `id`='{$_GET['id']}'")-
>fetch(PDO::FETCH_ASSOC);
if($topic['login']==1){
    if(!isset($_SESSION['login'])){
        $_SESSION['position']="index.php?do=vote&id={$_GET['id']}";
        header("location:index.php?do=login&msg=1");
    }
}
$options=$pdo->query("select * from `options` where `subject_id`='{$_GET['id']}'")-
>fetchAll(PDO::FETCH_ASSOC);
?>
<h2><?=$topic['subject'];?></h2>
<form action="./api/vote.php" method="post">
<ul>
<?php
foreach($options as $idx => $opt){
    echo "<li>";
    switch($topic['type']){
        case 1:
            echo "<input type='radio' name='desc' value='{$_opt['id']}'>";
            break;
        case 2:
            echo "<input type='checkbox' name='desc[]' value='{$_opt['id']}'>";
            break;
    }
    echo "<span>".($idx+1).". </span>";
    echo "<span>{$_opt['description']}</span>";
    echo "</li>";
}
?>
</ul>
<div>
    <input type="hidden" name="subject_id" value="<?=$_GET['id'];?>">
    <input type="submit" value="投票">
    <input type="button" value="取消">
</div>

</form>
```

backend.php (p1)

```
<?php include_once "db.php";?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>管理後台</title>
    <script src="./js/jquery-3.7.0.min.js"></script>
    <link rel="stylesheet" href="./css/style.css">
</head>
<body>
<header>
    <a href="index.php">網站首頁</a>
    <a href="backend.php">管理首頁</a>
    <a href="./api/logout.php">登出</a>
    <nav>
        <a href='./backend.php?do=add_vote'>新增投票</a>
        <a href='./backend.php?do=query_vote'>會員管理</a>
        <a href='./backend.php?do=query_vote'>投票明細管理</a>
    </nav>
</header>
<main>
<?php
    //include "./back/topic_list.php";

    /* if(isset($_GET['do'])){
        $file="./back/".$_GET['do'].".php";
    }else{
        $file="./back/topic_list.php";
    } */

    //$do=(isset($_GET['do']))?$_GET['do']:'topic_list';
    $do=$_GET['do']??'topic_list';

    $file="./back/".$do.".php";

    if(file_exists($file)){
        include $file;
    }else{
        include "./back/topic_list.php";
    }
}
```

backend.php (p2)

```
//include (file_exists($file))?$file:"./back/topic_list.php";
/*
switch($_GET['do']){
    case "add_vote":
        include "./back/add_vote.php";
        break;
    case 'query_vote':
        include "./back/query_vote.php";
        break;
    default :
        include "./back/topic_list.php";
} */
?>
</main>
<footer></footer>
</body>
</html>
```


db.php

```
<?php
$dsn="mysql:host=localhost;charset=utf8;dbname=vote";
$pdo=new PDO($dsn, 'root', '');

date_default_timezone_set("Asia/Taipei");

session_start();

$msg=[
    1=>"本調查為會員限定，請登入後再進行投票",
    2=>"本調查已結束，請進行其它調查"
];

?>
```

index.php

```
<?php include_once "db.php";?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>驚奇投票所</title>
    <link rel="stylesheet" href="./css/style.css">
</head>
<body>
<header>
    <a href="index.php">首頁</a>
    <a href="index.php?do=result_list">結果</a>
    <?php
    if(!isset($_SESSION['login'])){
    ?>
        <a href="index.php?do=login">登入</a>
        <a href="index.php?do=reg">註冊</a>
    <?php
    }else{
    ?>
        <a href="./api/logout.php">登出</a>
    <?php
    }
    ?>
</header>
<main>
<?php
$do=$_GET['do']??'list';
$file="./front/".$do.".php";
if(file_exists($file)){
    include $file;
}else{
    include "./front/list.php";
}
?>
</main>
<footer></footer>

</body>
</html>
```

111年度資料庫程式設計作業

前後台整合系統

主題

- 請建立一個投票或問卷系統可以提供投票或問卷功能，並能查看結果
- 或是可以自選主題，但最後成果需有前後台，且有使用到資料庫，比如：
 - 學生管理系統
 - 發票管理系統
 - 個人記帳管理系統
- 如果是自選主題，請先列出計劃完成的功能，且與老師討論，以便決定合適的難度及製作期間

動作要求(以投票功能為例)

1. 分析需要的功能
 - 功能一....(前台要有投票主題的列表讓使用者可以選擇)
 - 功能二....(有會員註冊登入功能，會員比一般使用者有更多的主題可以投票)
 - 功能三....(後台可以新增投票主題及項目)
 -
- 分析結果可以是word文件，或是markdown的文件格式儲存在ScreenShot目錄下

2. 設計資料表

- 資料表一(資料表名)

欄位名	資料型態	主鍵	預設值	自動遞增	備註

- 資料表二(資料表名)

欄位名	資料型態	主鍵	預設值	自動遞增	備註

3. 請充分運用學到的各項網頁知識來美化這個投票系統的畫面

- html標籤的應用(語意標籤、表單、表格、分隔線、標頭..etc)
- css的應用(行內、內嵌、外連、flexbox、偽元素、動畫..etc)
- bootstrap的應用(排版功能、元件、類別..etc)
- javascript or jQuery的應用(DOM的操作、CSS的切換)

4. 請上傳至220的伺服器個人空間，並自行建立所需資料表

5. 請將完成品前後台及功能截圖五張放在ScreenShot資料夾下

必備要求

後台功能

- 請設計一個頁面可以用來新增投票的主題與項目
- 可以控制题目的啟用與關閉

前台功能

- 請設計一個頁面可以到目前進行投票的項目
- 可以進行投票
- 請設計一個頁面可以看到投票統計的結果

進階功能

- 請整合註冊及登入系統
- 能以長條圖或圖像化的方式來呈現統計的結果
- 能判斷使用者的狀態，避免重覆投票

評量時間

交代作業後的四周時間(含六日共28天)

評分說明（合計 100 分）

項目	內容	分數
1.	能使用HTML及CSS語法進行至少三種不同樣式的前後台版面區塊製作	10 分
2.	能建立符合功能需求的資料庫及資料表欄位，至少需有三張對應不同功能的資料表	10 分
3.	能使用PHP語法成功連接資料庫並讀出資料	10 分
4.	能製作出一套使用比對資料庫會員帳號密碼的登入機制	10 分
5.	前台頁面能呈現出來自資料表的資料至少三筆	10 分
6.	後台能提供至少三項表單功能讓使用者可以修改資料表中的資料	10 分
7.	能製作至少一項檔案上傳的功能	10 分
8.	能至少有一項功能使用到迴圈來呈現多筆資料	10 分
9.	能製作至少三項使用到javascript應用的前端功能	10 分
10.	能應用到至少一項網頁製作相關的函式庫或套件	10 分