ShareBook

#### 功能模块设计

需求描述：

设计描述：

针对于后台用户权限系统设计 对于用户进行分组设计每个用户对应都有自己的角色进行绑定，对于系统的访问的每个链接和功能都需要进行角色用户进入，否则默认该用户没有权限访问，角色和权限进行绑定。不同的页面或者功能有不同角色的人进行访问和管理。

设计数据库表结构

Users用户表

CREATE TABLE `users` (

`id` int(10) unsigned NOT NULL AUTO\_INCREMENT,

`name` varchar(255) COLLATE utf8\_unicode\_ci NOT NULL,

`email` varchar(255) COLLATE utf8\_unicode\_ci NOT NULL,

`password` varchar(255) COLLATE utf8\_unicode\_ci NOT NULL,

`remember\_token` varchar(100) COLLATE utf8\_unicode\_ci NOT NULL,

`status` int(1) NOT NULL,

`created\_at` timestamp NOT NULL DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP,

`updated\_at` timestamp NOT NULL DEFAULT '0000-00-00 00:00:00',

`deleted\_at` timestamp NULL DEFAULT NULL,

PRIMARY KEY (`id`),

UNIQUE KEY `users\_email\_unique` (`email`)

) ENGINE=InnoDB AUTO\_INCREMENT=145 DEFAULT CHARSET=utf8 COLLATE=utf8\_unicode\_ci;

Roles角色表

CREATE TABLE `roles` (

`id` int(10) unsigned NOT NULL AUTO\_INCREMENT,

`role\_name` varchar(255) COLLATE utf8\_unicode\_ci NOT NULL,

`role\_description` varchar(255) COLLATE utf8\_unicode\_ci NOT NULL,

`role\_slug` varchar(255) COLLATE utf8\_unicode\_ci NOT NULL,

`created\_at` timestamp NULL DEFAULT NULL,

`updated\_at` timestamp NULL DEFAULT NULL,

PRIMARY KEY (`id`)

) ENGINE=MYISAM AUTO\_INCREMENT=1 DEFAULT CHARSET=utf8 COLLATE=utf8\_unicode\_ci;

Role\_user 角色用户关联表

CREATE TABLE `role\_user` (

`role\_id` int(10) unsigned NOT NULL,

`user\_id` int(10) unsigned NOT NULL,

PRIMARY KEY (`role\_id`,`user\_id`),

KEY `role\_user\_user\_id\_foreign` (`user\_id`),

CONSTRAINT `role\_user\_role\_id\_foreign` FOREIGN KEY (`role\_id`) REFERENCES `roles` (`id`) ON DELETE CASCADE,

CONSTRAINT `role\_user\_user\_id\_foreign` FOREIGN KEY (`user\_id`) REFERENCES `users` (`id`) ON DELETE CASCADE

) ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8\_unicode\_ci;

Permissions 权限表

CREATE TABLE `permissions` (

`id` int(10) unsigned NOT NULL AUTO\_INCREMENT,

`permission\_name` varchar(255) COLLATE utf8\_unicode\_ci NOT NULL,

`permission\_slug` varchar(255) COLLATE utf8\_unicode\_ci NOT NULL,

`permission\_description` varchar(255) COLLATE utf8\_unicode\_ci DEFAULT NULL,

`created\_at` timestamp NULL DEFAULT NULL,

`updated\_at` timestamp NULL DEFAULT NULL,

PRIMARY KEY (`id`)

) ENGINE=InnoDB AUTO\_INCREMENT=181 DEFAULT CHARSET=utf8 COLLATE=utf8\_unicode\_ci;

Permission\_role 权限角色关联表

CREATE TABLE `permission\_role` (

`permission\_id` int(10) unsigned NOT NULL,

`role\_id` int(10) unsigned NOT NULL,

`created\_at` timestamp NULL DEFAULT NULL,

`updated\_at` timestamp NULL DEFAULT NULL,

PRIMARY KEY (`permission\_id`,`role\_id`),

KEY `permission\_role\_role\_id\_foreign` (`role\_id`),

CONSTRAINT `permission\_role\_permission\_id\_foreign` FOREIGN KEY (`permission\_id`) REFERENCES `permissions` (`id`) ON DELETE CASCADE,

CONSTRAINT `permission\_role\_role\_id\_foreign` FOREIGN KEY (`role\_id`) REFERENCES `roles` (`id`) ON DELETE CASCADE

) ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8\_unicode\_ci;