Requirement :

Write a basic web sample by cakephp: login page, users management (add, delete),  
article list (add article by title Sales & Marketing, Travels)  
  
1- Login to system use email to login  
2- After user login to sytem, he can see list of his articles. He can add new article.  
3- User management page have function add new user and delete function can delete one or multi users.  
4- User must be assign to a group (Super Admin, Sales & Marketing, Travels) and an admin or normal user type.  
   Admin type is required when creating a first user of a group. Normal user can only view his articles and add new article.  
5- Super admin have all permission. But he can not delete users which have article published.  
  
+ Q&A for this spec  
+ Write detail design for those function.  
+ Write UT (unit test) before implement.

**Q&A for this spec** :

|  |  |
| --- | --- |
| Questions | Answers |
| How many field using for user management ? | About 10 fields, include : id ( primary key ), email, password, name, detail info ( address, phone number, date of birth), created, modified. |
| How long should the password be ? | The minimum password length recommended is about 8 characters. [Password must be 8 characters including 1 uppercase letter, 1 special character, alphanumeric characters](http://stackoverflow.com/questions/9477906/password-must-be-8-characters-including-1-uppercase-letter-1-special-character). |
| What is a valid email address ? |  |
| After user login to system, Can he see list of his articles **only** ? |  |
| User can add new article, so can he **edit** or **delete** his articles ? |  |
| How many field using for article ? | Include : id ( primary ), title, content, image, created, modified, created\_by, modified\_by, published( important ) |
| “Ddd article by title Sales & Marketing, Travels”. The title will be a constant or save a new table to database ? | Example : category |
| What permission can add or delete user ? Super Admin have all permission. Admin in a group can do that ? or Admin in a group only manager that group ? |  |
| The user group ( Super admin, Sales & Marketing, Travels ) should save a new table or save as a constant ? |  |
| The user type ( admin, normal ) should save as a new table or save as a constant ? |  |
| Admin type is required when creating a first user of a group ? That mean can’t create as a normal user ( compulsory ) ? |  |

**Detail design :**

1. **Function CheckLogin :** check email and password is valid .

Validate email and password :

Example : Username should contain letter, number and period, not blank, at least 6 character, not be more than 40 character, not contain spaces, not start with symbols.

if valid email and invalid password

show message error

else if valid password and invalid email

show message error

else if email and password is blank

show message error

else if password blank, enter email

show message error

else if email blank enter password

show message error

else if email and password is wrong

show error

else : redirect to dashboard or articles management or user managerment with a permission. Save user info to session, cookie.

1. **Function Register :**

Validate data.

Check user group not blank and user type not blank.

If connt(user) equal 0 will be a Super Admin.

If count(user) of a group equal 0 . It require is admin type.

1. **Logined in as :**
   1. **Normal User :**

**\_** He only see articles created by him and only create new articles. Can’t edit or delete his articles and only see his information.

* 1. **Admin a group :**

**\_** Have all permission as normal user

**\_** Can see info of all user, can edit, delete one or multi user in that group. But can’t delete users which have article published.

**\_** Can see all articles of that group, can add, edit, delete articles in that group.

* 1. **Super Admin**

\_ All permission But can not delete users which have article published.

1. **Articles :**

\_ Articles title must be assign to a group **Sales & Marketing**, **Travels**

**\_** Validate data when create or update .