Employee Portal – Business Story

Business Story

Our client needs a software system to aid his employees. We've been hired to implement the solution. The client wants the system to be accessible only by authenticated users. Also, he wants some extra functionality to be accessible for some users which he calls admin (there can be multiple admin).

The key features that the client has in mind are:
1. A way to send public notices to all users.
2. A way to manage issues. Non-admin users should be able to raise issues, which the admin users can then take up and work on.
3. A way to manage employee details. Admin users should be able to update employee details, add new employees etc. All users should be able to search other employees by various criteria.

Requirements

The application being created should fulfill the following requirements. The validations are marked in red.
1. Login – Each user should provide login credentials (email Id and password) to login. Only after login, the user will be able to access rest of the functionality. Also, the features accessible within the application will be different for admin and non admin users.
   a. Email Id is mandatory
   b. Password is mandatory
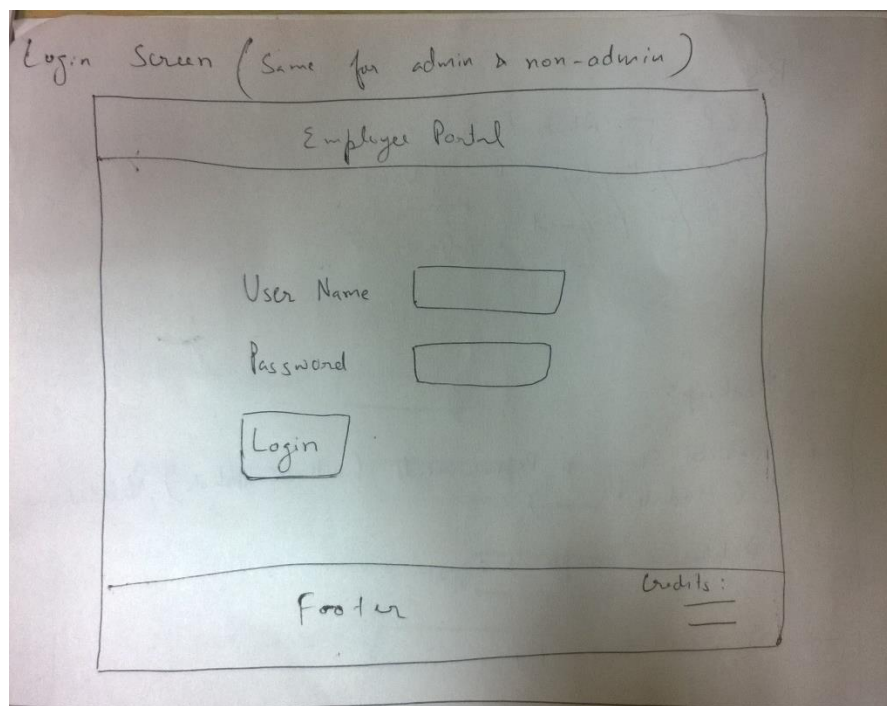
2. Home Page – Landing page which becomes viewable only after login provides access to modules discussed below
   a. My Profile
   b. Notices
   c. Issues
   d. Employees
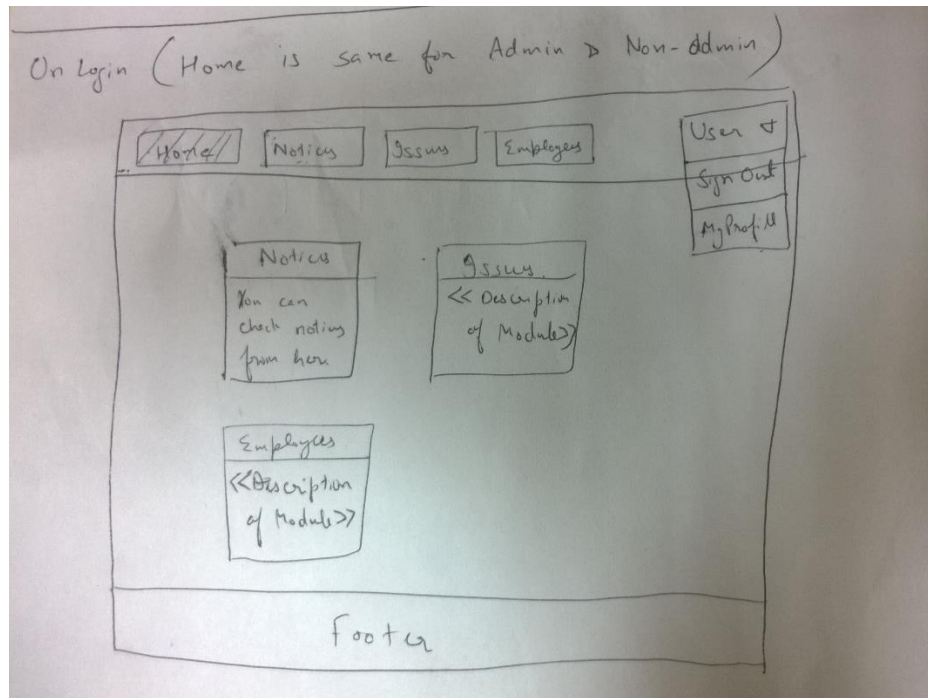
3. My Profile – This feature is available only post login, to both admin and non-admin users. The users can update the following details from here.
   a. FirstName
      i. Is mandatory
      ii. Less than 50 characters in length.
   b. LastName
      i. Is mandatory
      ii. Less than 50 characters in length
   c. Department
      i. Is mandatory
   d. New Password – If this is empty, the password will not change (Confirm new password and Old password will be ignored). If this has a value, the following rules should hold true -
      i. Length should be between 8 and 16 characters.
      ii. It should have at-least one numeric character and one special character out of (!, @, #, $, %, ^, &, *, ~, ?, .)
   e. Confirm New Password – If new password is empty, this is ignored. Otherwise the following rules should hold true –
      i. Should have same value as New Password.

      f.   Old Password - If new password is empty, this is ignored. Otherwise the following rules should hold true –
            i.   Should have same value as Existing Password.


4.   Notices – This feature is available only post login, to both admin and non-admin users. But the operations are different for admin and non-admin users.
      a.   Non-admin Users –
           i. They can only view notices which are
                1.   Active
                2.   Have start date less than equal to today's date
                3.   Have expiration date greater than equal to today's date
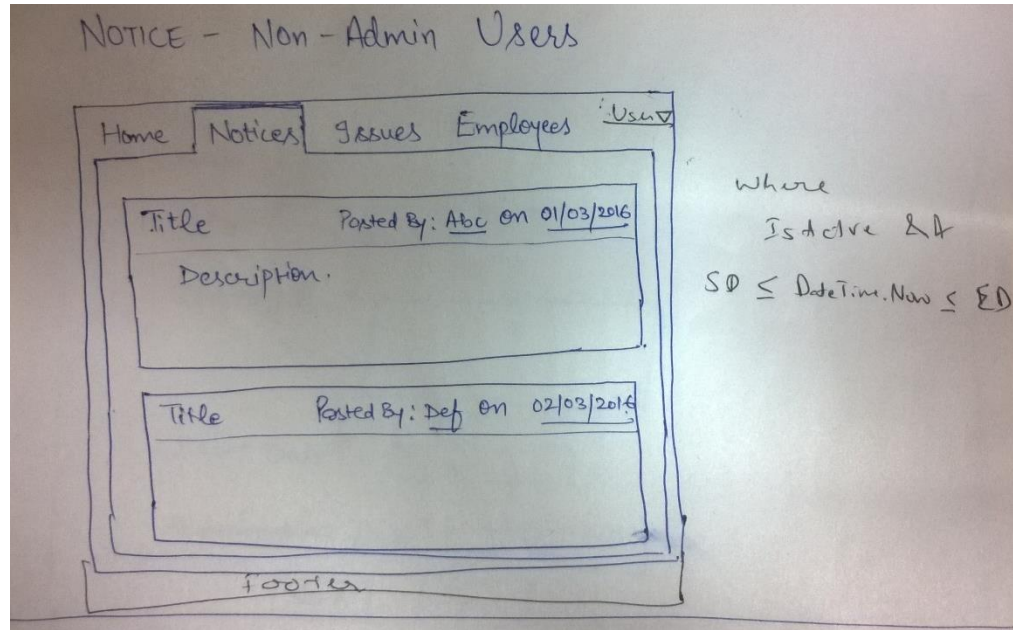
b. Admin Users –
    i. They can view notices which are
        1. Active
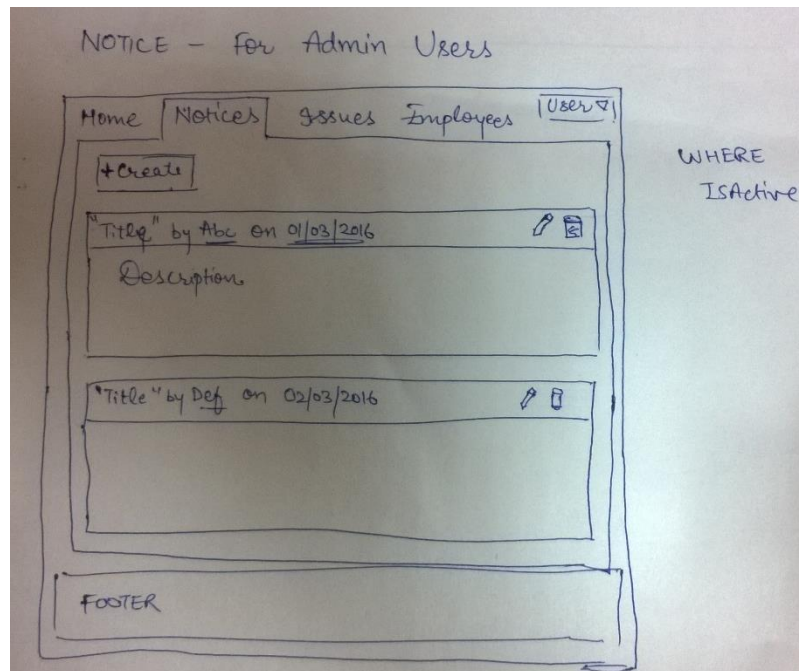
    ii. They can delete a notice

iii. They can edit a notice to change the following
1. Title – Mandatory and less than 100 characters
2. Description – Mandatory and less than 500 characters
3. StartDate – Mandatory
4. ExpirationDate – Mandatory and greater than start date.

iv. They can create new notices by providing the same details as in Edit notice with same validations.

5. Issues – This feature is available only post login, to both admin and non-admin users. But the operations are different for admin and non-admin users.
    a. Non-admin Users –
        i. They can view issues which are
            1. Active
            2. Posted by them

        ii. They can delete an issue

iii. They can edit an issue with an "Open" Status to change the following
1. Title - Mandatory and less than 100 characters
2. Description - Mandatory and less than 500 characters
3. Priority – Mandatory and should be one out of
   a. Normal
   b. Urgent
   c. Immediate

iv. They can create a new issue by providing the same details as in Edit issue with same validations.

v. They can check the details of an issue which should display the issue change history to them

b. Admin Users –
   i. They can view issues which are
      1. Active

ii. They can edit an issue (regardless of status) to change the following
   1. Comments – Should be less than 500 characters, non-mandatory.
   2. Assigned To – Mandatory.
   3. Status – Should be one out of
      a. Open
      b. WIP (Work in Progress)
      c. Closed

iii. They can check the details of an issue which should display the issue change history to them

6. Employees - This feature is available only post login, to both admin and non-admin users. But the operations are different for admin and non-admin users.
   a. Non-admin Users -
      i. Search by - By default, no employees are visible to the user. But, the user can search for employees by using one or more criteria.
         1. First Name – Not mandatory, if provided will be used in the like clause on first name of all employees.
         2. Last Name – Not mandatory, if provided will be used in the like clause on last name of all employees.
         3. Email Id – Not mandatory, if provided will be used in the like clause on email Id of all employees.
         4. Begin Date – Not mandatory, if provided those employees will be returned who have joining date larger than begin date.
         5. End Date – Not mandatory, if provided those employees will be returned who have joining date smaller than begin date.
         6. Department – Not mandatory, if provided those employees will be returned whose department is equal to the selected department.
      Note – For multiple selections in search by, the total result will be the "OR" of all where clauses. Also, employees with non-null termination date can't be searched.

b. Admin Users –
   i. Search By – Same as is for non-admin users Except – For multiple selections in search by, the total result will be the "OR" of all where clauses. Also, employees with non-null termination date can also be searched.

   ii. They can edit an existing user and change the following
      1. First Name – Mandatory and less than 50 characters in length
      2. Last Name – Mandatory and less than 50 characters in length
      3. Email –
         a. Mandatory
         b. Should be a valid email Id
         c. Should be a unique email Id in the system
         d. Should be less than 100 characters in length
      4. Date Of Joining
         a. Mandatory

      b. Should be smaller than today's date
5. Termination Date
      a. Non – mandatory
      b. If provided, should be greater than date of joining
    Note – Setting the termination date will make the employee un-searchable and hence inactive (or deleted) user for most parts.
6. Department
      a. Mandatory
7. Password
      a. Mandatory
      b. Length should be between 8 and 16 characters.
      c. It should have at-least one numeric character and one special character out of (!, @, #, $, %, ^, &, *, ~, ?, .)
8. Is Admin – Mandatory Boolean value

iii. They can create a new user by providing the same details as in Edit user with same validations.(Except termination date field should be un-editable)

Termination date un-editable