

HUMAN RESOURCE MANAGEMENT SYSTEM

Human Resource Management System is software, using which information of an employee of a company can be managed. This application will be used for internal purpose of the company.

Users: There are two categories of users who are mainly going to use this software.

- a. *Human Resource Manager*
- b. *Any other employee apart from HRM*

Prerequisites:

- a. Create necessary database table to store user name, password and type of user (HR or any other employee)
- b. 3-tier architecture has to be used for this application, consisting of UI layer, business layer and data access layer. Additionally persistence layer (custom exception layer with logger class for logging exception details in file) and business entities have to be created
- c. Layout page must be used for styling and layout.
- d. Application must be secured
- e. Connection string should not be hard coded in code, rather has to be placed in configuration file
- f. EF or ADO.Net can be used for data access layer
- g. Employee details should not be stored in single table, rather create multiple tables to store different types of information of any employee

Permission:

- a. Human Resource Manager can view, update (edit) or even add an employee record
- b. Any other employee can just view his/her record, but does not have permission to update his/her own record or even add any new employee record

UI Designs:

1. Login View:

- Any user has to be authenticated before viewing any page. If user tries to view any page of this web site, always log-in page will be provided to the user first.
- User has to enter user id and password in the login page controls.
- Following is the diagram for the login view

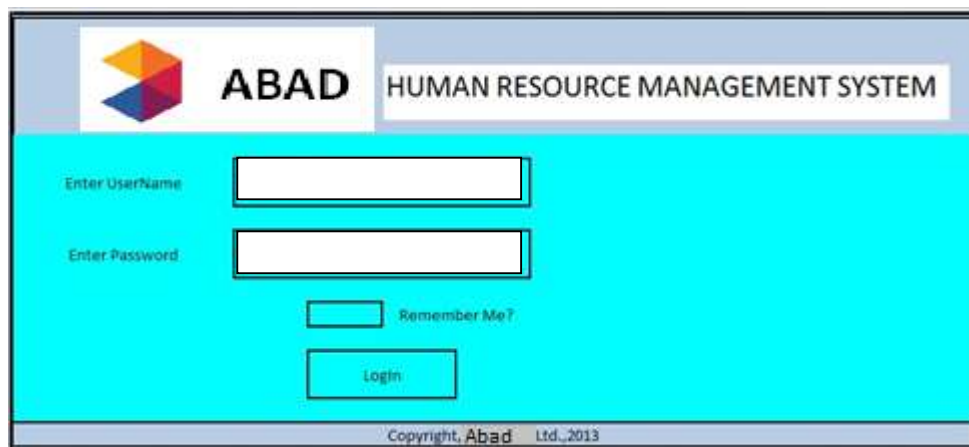


Figure 1: Login View

2. Search View (Home Page):

After successful login user gets redirected to the home page (Search View)

If the user is an employee other than human resource manager

- I. on the Search view, the information of the corresponding employee should be displayed (as given in the following diagram)

The screenshot shows the ABAD HUMAN RESOURCE MANAGEMENT SYSTEM interface. On the left is a sidebar with input fields for 'Enter First Name' and 'Enter Last Name', a 'Search' button, and an 'Add Employee' link. The main content area displays '3 Records found' and a table with one record for 'Banu Prakash' in the 'Orchard' department. The table has columns for 'Full Name', 'MID', and 'Department', with an 'Edit' link next to the record. The footer shows 'Copyright, Abad Ltd., 2013'.

| Full Name | MID | Department | |
|--------------|----------|------------|----------------------|
| Banu Prakash | M1012987 | Orchard | Edit |

Figure 2: Search View (for an employee other than human resource manager)

- II. Left side panel controls for entering first name, last name of employee and “Search” button Should be disabled, so that no one apart from HRM can search for other employee records
- III. “Add Employee” link has to be disabled, so that no one apart from HRM can add an employee record
- IV. “Edit” link should be disabled, so that no one apart from HRM can update even his/her own record

b. If the user is a human resource manager

- I. Search View should look like the above diagram initially
- II. Left hand side panel controls should be enabled, so that HRM can enter first name and last name and then click “Search” button to search for matching records
- III. Upon button click, all the matching records should be displayed as in the following diagram

Business Rules:

- I. HRM can enter either only first name and last name or anyone of them fully or partially. Accordingly matching records should be displayed
- II. If HRM does not enter either of them and clicks “Search” button, then all the records from database table should be displayed on the page

| ABAD | | HUMAN RESOURCE MANAGEMENT SYSTEM | | | | | | | | | | | | | | | | | |
|---|-----------------|----------------------------------|----------------------|-----------|-----|------------|--|------------------------------|----------|---------|----------------------|----------------------------------|----------|-----|----------------------|------------------------------|----------|---------|----------------------|
| Enter First Name | 3 Records found | | | | | | | | | | | | | | | | | | |
| a | | | | | | | | | | | | | | | | | | | |
| Enter Last Name | | | | | | | | | | | | | | | | | | | |
| p | | | | | | | | | | | | | | | | | | | |
| Search | | | | | | | | | | | | | | | | | | | |
| Add Employee | | | | | | | | | | | | | | | | | | | |
| <table border="1"><thead><tr><th>Full Name</th><th>MID</th><th>Department</th><th></th></tr></thead><tbody><tr><td>Banu Prakash</td><td>M1012987</td><td>Orchard</td><td>Edit</td></tr><tr><td>Bala Subramaniam</td><td>M1011450</td><td>TTG</td><td>Edit</td></tr><tr><td>Sujay Pandit</td><td>M9067543</td><td>Orchard</td><td>Edit</td></tr></tbody></table> | | | | Full Name | MID | Department | | Banu Prakash | M1012987 | Orchard | Edit | Bala Subramaniam | M1011450 | TTG | Edit | Sujay Pandit | M9067543 | Orchard | Edit |
| Full Name | MID | Department | | | | | | | | | | | | | | | | | |
| Banu Prakash | M1012987 | Orchard | Edit | | | | | | | | | | | | | | | | |
| Bala Subramaniam | M1011450 | TTG | Edit | | | | | | | | | | | | | | | | |
| Sujay Pandit | M9067543 | Orchard | Edit | | | | | | | | | | | | | | | | |
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Figure 3: Search View (for HRM)

3. View Page:

Upon clicking on the hyper linked Full Name displayed on the previous page, user should be redirected to a new page (Employee Details View) and should be able to view all the details of that employee as given in the following diagram, but should be able to edit the data on the page.

- I. After viewing the record, user click the "OK" button to be redirected to the "SearchPage.aspx"

 **ABAD**

HUMAN RESOURCE MANAGEMENT SYSTEM

PERSONAL INFORMATION

| | | | | | |
|---------------|------------|-------------|----|-----------|---------|
| First Name | Banu | Middle Name | | Last Name | Prakash |
| Date of Birth | 30/12/1963 | Age | 50 | Gender | Male |

ADDRESS AND CONTACT DETAILS

| | | | | | |
|---------------|-----------------|---------|----------------------|------------------|--------------------|
| Street1 | 405, 9th Main | Street2 | 7th Block, 4th Phase | Locality | Kanakapura |
| City | Bangalore | State | Karnataka | Country | India |
| Mail Id | banu@gmail.com | | Alternate Mail Id | | banu.p@yahoo.co.in |
| Mobile Number | + 91-9886090876 | | Phone Number | + 91-80-22567789 | |

EDUCATIONAL DETAILS

| | | | | | | | |
|-----------------------------|-------------------------------|-------|----|-----------------|-----|-------|----|
| Bachelor's Degree | B.Sc. (Comp. Sc.) | Marks | 76 | Master's Degree | MCA | Marks | 72 |
| Additional Education/Course | Java Course from IIHT J2EE | | | | | | |

CIVIL INFORMATION

| | | | |
|------------|--------|-------------|------------|
| Natinality | Indian | PAN Card No | AXJ56789Y7 |
|------------|--------|-------------|------------|

OFFICIAL INFORMATION

| | | | |
|------------|-------------------|----------|-------------------------------|
| MID | M9501074 | Location | West Campus |
| Department | Select Department | Adress | Whitefield, Bangalore, 560100 |

OK

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Figure 4: Employee Details View


4. Update Page:

If the user is HRM (employee other HRM do not have permission to edit his/her own record),

- I. "Edit" link should be enabled on "Search View"
- II. Upon clicking the "Edit" link user should be redirected to a new page (Edit Employee View), where details of the employee should be displayed on the page, but this time they are editable (except few) as given in the following diagram
- III. After modifying the record, user should click on "Update" button to update the record in the database table and upon successful updating user should be redirected to the "Search View"

Values which are not
editable: Gender, Pan no,
Employee ID

- IV. If user clicks "Cancel" button, then the operation should be aborted, and user should be redirected to the "Search" view


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HUMAN RESOURCE MANAGEMENT SYSTEM

PERSONAL INFORMATION

First Name: Banu Middle Name: Last Name: Prakash
Date of Birth: 30/12/1963 Age: 50 Gender: Male

ADDRESS AND CONTACT DETAILS

Street1: 405, 9th Main Street2: 7th Block, 4th Phase Locality: Kanakapura
City: Bangalore State: Karnataka Country: India
Mail Id: banu@gmail.com Alternate Mail Id: banu.p@yahoo.co.in
Mobile Number: 91 9886090876 Phone Number: 91 80 22567789
e.g. +91 9900990088 e.g. +91 80 22003300

EDUCATIONAL DETAILS

Bachelor's Degree: B.Sc. (Comp. Sc.) Marks: 76 Master's Degree: MCA Marks: 72
Additional Education/Course: Java Course from IIHT, J2EE

CIVIL INFORMATION

Nationality: Indian PAN Card No: AXJ56789Y7

OFFICIAL INFORMATION

MID: M9501074 Location: West Campus
Department: Select Department Address: Whitefield, Bangalore, 560100

Update Cancel

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5. Add Page:

If the user is HRM (employee other HRM do not have permission to add record of other employee),

- I. "Add Employee" link on the "Search View" should be enabled
- II. Upon clicking the "Add Employee" link, user should be redirected to a new page (Add Employee Details View), where controls will be available to enter data for a new employee record as given in the following diagram
- III. After entering all required data for an employee (some data are optional), user should click the "Add" button to add the new record in the database and upon successful addition of the record, user should be redirected to the "Search View"
- IV. If user clicks "Cancel" button, then the operation should be aborted and user should be redirected to the "Search" page

ABAD HUMAN RESOURCE MANAGEMENT SYSTEM

PERSONAL INFORMATION

First Name Middle Name Last Name
 Date of Birth Age Gender

ADDRESS AND CONTACT DETAILS

Street1 Street2 Locality
 City State Country
 Mail Id Alternate Mail Id
 Mobile Number Phone Number
 e.g. +91 9900990088 e.g. +91 80 22003300

EDUCATIONAL DETAILS

Bachelor's Degree Marks Master's Degree Marks
 Additional Education/Course

CIVIL INFORMATION

Natinality PAN Card No.

OFFICIAL INFORMATION

MID Location
 Department Address

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Figure 6: Add Employee Details View

Skill Assure Web Assignment

Optional Fields: Middle name, Street2, Alternate mail id, Additional Education/course

Validation: Validation for all other fields is required. Corresponding error message should be displayed at the bottom of the page and a special character should be displayed beside the field (control)