**Trainee registration system**

Design and implement “trainee registration” system for a training organization. It will be used by both trainees & admin. Trainees can use this system to register as well as to view their details. Admin can use this system to view details of all trainees in the organization.

**Instructions & Assumptions**

* Include a brief explanation of your design and assumptions along with your code. This can be in the form of code comments.
* Use appropriate data types and precisions for the variables
* Handle all exception and alternate flows

Create necessary tables in the database and **upload the table script along with project solution**. Read the question paper completely to know how the data have to be inserted.

**NOTE: READ THE QUESTION PAPER COMPLETELY BEFORE YOU START CODING.**

Create an application to do the following.

The homepage has the following links:

**1. Register a trainee**

**2. View Details**

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| **Use case #1** | **Register a trainee** |
| Trigger | The user clicks on "Register a trainee" link on the home page. |
| Pre-Conditions | Table in the database has to be created |
| Post-Conditions | The complete information about trainee is stored in the application database. |
| UI Screen details | Following screen must be displayed when user clicks on **“Register a trainee”** link on home page:    In the next page it should get personal details of the user preceded by his/her last name    Once user has submitted the data it has to be displayed for verification before updating to database. |
| Main flow | The user provides the required details in the form and clicks the "OK" button. On successfully saving the details in database, the following message is displayed: **"The trainee Asish Nehra has been registered successfully",** and user is redirected to the home page, |
| Data validations | * All the form fields are mandatory. * First name and Last name must contain only alphabets * Email field should be checked for valid email id * User name should be checked for availability which is available in the database **using Ajax** * Password should contain at least 8 characters * All Mindtree id must start with character ‘M’ and length must be 8 characters * Age must be numeric and must be between 1 to 50 years of age * City must contain only alphabets. |
| Business rules |  |
| Exception Flows | If the user provides incorrect or incomplete values in any of the input fields and tries to save the record, the operation is aborted and the following message is displayed on the screen: "The value provided for the field < First Name| ...> is incorrect or incomplete". |
| Alternate flow | If the user chooses to abort the "Register a trainee" operation by clicking on the "Cancel" button, he/she should be redirected to the home page. |

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| **Use case #2** | **View Details** |
| Trigger | The user clicks on **"View Details"** link on the home page. |
| Pre-Conditions | **Note:** Admin User-Name and Password should be given in the deployment descriptor.  Admin Username: admin  Admin Password: admin@mindtree123 |
| Post-Conditions | The details of the trainees should be displayed |
| UI Screen details | Following screen must be displayed when user clicks on “View Details” link on home page:    If user is of type trainee then his/her related information must be displayed as shown below:    If user is of type admin then the information about the all trainees (sorted by Mindtree id) should be displayed: |
| Main flow | The user provides the required values in the form and clicks the "submit" button; based on type of user the appropriate details will be displayed.   * If the designation is trainee and the user name password is correct then all his/her related information should be displayed in the form of table. * If the designation is Admin and the user name password is correct then the information about the all trainees should be displayed in the form of table with previous and next button **sorted by Mindtree Id.** |
| Data validations | All the form fields are mandatory. |
| Business rules | The system should check for appropriate type of user and fetch the corresponding details from database. |
| Exception Flows | If the user provides incorrect or incomplete values in any of the input fields and tries to login into system, then operation is aborted and the following message is displayed on the screen: "The value provided for the field < user name| ...> is incorrect or incomplete". |
| Alternate flow | If the user chooses to abort the "view details" operation by clicking on the "Cancel" button, he/she should be redirected to the home page. |

**Marks Allocation:**

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| **#** | **Description** | **Marks** |
| **1** | **Use case#1:**Display of “User details” page when user clicks on “Register a trainee” link on the home page | **2** |
| **2** | **Use case#1:** Validation of first name, last name, email id and password fields. (All validations must be implemented otherwise it must be awarded "zero" for this section) | **7** |
| **3** | **Use case #1:**User name should be checked for availability which is available in the database u**sing Ajax** | **5** |
| **4** | **Use case#1:**Display of form to get personal details of the user preceded by his/her last name | **3** |
| **5** | **Use case#1:** Validation ofMindtree-ID, age and city fields. (All validations must be implemented otherwise it must be awarded "zero" for this section) | **5** |
| **6** | **Use case#1:** Once user has submitted the data it has to be displayed for verification before updating to database. | **5** |
| **7** | **Use case#1:** Display of  **"The trainee Asish Nehra has been registered successfully"** message **with trainee’s name** after successful storage of details | **2** |
| **8** | **Use case #1: Alternate flow:** Clicking on cancel button redirects the user to home page | **1** |
| **9** | **Use case#2:**Display of login page when user clicks on **“View Details”** link | **2** |
| **10** | **Use case #2:** If the designation is trainee and the user name password is correct then all his/her related information should be displayed in the form of table | **4** |
| **11** | **Use case #2:** If the designation is Admin and the user name password is correct then all the information about the trainees should be displayed in the form of table with previous and next button sorted by Mindtree Id (**sorted by Mindtree Id)**. | **8** |
| **12** | **Use case #2: Business rule:** The system should check for type of user and fetch the corresponding details from database | **2** |
| **13** | **Use case #2:** All fields are mandatory **for login-page** and must be of appropriate types. | **2** |
| **14** | **Use case #2: Alternate flow:** Clicking on cancel button redirects the user to home page | **1** |
| **15** | **Use case#2:** Clicking on **“Return to home page”** link redirects the user to home page | **1** |