## OBJECTIVES

On completion of the assignment the trainee should be able to:

- Create web pages using HTML, Javascript and Jquery
- Implement J2EE API's to develop web based application
- Write business components in J2EE
- Handle databases to store and manage data
- Handle exceptions
- Implement coding standards
- Perform client side and server side validations.

## SCENARIO

An online **Training Management Portal** has to be created to provide trainings to the entire globe.

The trainings are categorized as open (where individual can nominate) and corporate (request coming from company for few employees). Every company / individual can use their login details to proceed. If they are using the proposed system for the first time, the new User ID is created for them. They have to provide their details for User IDs. After logging in, individual can see the calendar for planned trainings in month.

The portal displays list of various courses available with them. The corporate user can raise a training request by submitting the necessary details for the training while individual user can see the calendar and nominate for the available trainings. If the training required for the individual is not available in calendar he can raise a request. The information is sent to the individual user accordingly. The various discount schemes are available for group requests and to those users who have taken the training from this organization earlier.

The trainers' details are maintained centrally with their skills. For the corporate training requests, executive checks the trainer's availability in the month and sends a confirmation to requester. The data for the trainer is then updated in database.

## TECHNOLOGIES STACK TO BE USED

- HTML,
- JS

- Jquery
- Servlets,
- JSP,
- Eclispe
- Oracle

*REGISTRATION MODULE*

- o *INPUT: Participant information (For corporate user, company information is provided.)*

- o *Validation / Business rules : every User must have unique & auto generated user id*

- o *Output : generate unique training id and store details in the database*

*LOGIN MODULE*
- o *Input: login details which varies based on end user details*

- o *Validation / Business Rules: access control will be different based on the login, with 3 re-login attempts after that account gets locked.*

- o *Output: welcome screen*

*TRAINING REQUEST MODULE*
- o *Input : training details*

- o *Validation / Business rules:*

  - *trainings will only be possible for future dates*

  - *Already planned trainings for month should be visible*

  - *Once booked request can changed by training executive only*

  - *faculty availability is checked on the training dates specified by requester*

  - *any training cancellations will be done only by training manager*

  - *the appropriate message is sent to the requester*

  - *training schedule date adjustment is possible a week prior to scheduled training.*

- o *Output : training confirmation*

### *PARTICIPANT PAYMENT MODULE*

- *Input: the mode of payment*

- *Validation / Business rules :*

  - *the payment amount should be as per the rules and compared with current system date*

  - *if the amount is not paid when expected, 2% charges are applicable*

  - *training can be attended by the participant only if he has no dues*

- *Output: the confirmation page to be displayed with Balance amount to be paid along with its expected due date*

### *CORPORATE USER PAYMENT MODULE*

- *Input: the mode of payment*

- *Validation / Business rules :*

  - *the payment amount should be as per the rules*

  - *the total training amount has to be paid within 15 days of completion of training*

  - *Output: it should display thank you page with the message about the total amount they have paid*

### *REPORTS MODULE*

- *Input: relevant input for specific reports*

- *Output: Expected output is*

  - *trainer-wise delivered training details*

  - *technology-wise trainings delivered*

  - *company wise trainings attended*

  - *trainers availability in month*

  - *trainer wise planned trainings*

  - *trainer-wise payments*

  - *month-wise payments*

  - *month wise cancelled trainings*

  - *trainer wise cancelled trainings*

## REFERENCES TO BE USED

- W3C schools
- Oracle Documentation
- Java J2EE Documentation
- StackOverflow