

Training Schedule Management

Introduction

ABC Software Systems provides software services in the field of Open Source, specializing in Unix Projects.

It is proposed to develop a system that helps companies to keep track of schedules of all the trainings happening in the organization.

Scope and Overview:

The scope of the Schedule Management System will be to provide the functionality as described in Functional Requirements below. The system will be developed on a Linux box using C language and would provide a command line interface to the end user.

Functional Requirements

The users of the application are:

1. Admin - Creates and updated schedules of trainings happening on daily basis.
2. Faculty - Find out trainings allocated to him in a specific duration

Below are the requirements specific to the types of users

Administrator

The admin should be able to create a new training schedule
The admin should be able to update or make changes to existing schedules
The admin allocates a schedule to a specific trainer
The admin should be able to generate a report of the trainings happening on monthly basis for a specific stream

Faculty

The faculty should be able to find out the schedule assigned to him
The faculty should be able to cancel a specific session allotted to him.

Authentication and Authorization

All users logging into the system should be authenticated using a unique login-id and password.
(Operations to be supported based on type of user)

The build of the application should be possible using a script using make file.

Detailed Specifications

Administrator

The Administrative should be able to do the following operations once he has logged in with his unique user id and password:

1. Create a new training schedule
2. Update or make changes to the existing schedules
3. Allocates a schedule to a specific trainer
4. Generate a report of the trainings happening on monthly basis for a specific stream
5. Quit Application

Create a new training schedule:

As part of this operation, the admin should have the ability to enter all the details of a new training schedule.

Schedule details include:

1. Technology
2. Batch id
3. Start and end date of the batch
4. Faculty details
5. Venue details
6. Number of participants in the batch

(Refer to section Data organization → Table1: Training)

Update or make changes to the existing schedules:

As part of this operation, the admin user should have the ability to modify details associated with a training schedule.

Allocates a training schedule to a specific trainer:

As part of this operation the admin should have the ability to assign training to a specific trainer.

Generate a report of the trainings happening on a basis for a specific stream:

As part of this operation the admin must be able to generate a report of the trainings happening on monthly basis for a specific stream.

Quit Application:

As part of this operation admin should have the ability to quit the application completely.

Faculty

The faculty should be able to do the following operations once he has logged in with his unique user id and password:

1. Find out the schedule assigned to him
2. Cancel a training schedule allocated to him
3. Quit Application

Get details of his/her schedule:

As part of this operation, the faculty has to get details of the training schedule allocated to him/her.

Cancel a training schedule allocated to him/her:

As part of this operation, the faculty should be able to request to cancel a training schedule allocated to him/her.

Quit Application:

As part of this operation, the card user should have the ability to quit the application completely, saving any active data as necessary.

Data Organization

Admin Login

Field Name	Data Type	Description
UserName	char[30]	Predefined User name for Admin
Password	char[20]	Predefined Password for Admin

Faculty Info

Field Name	Data Type	Description
TechnologyName	char[30]	Technology Name like Java,C,.Net etc
FacultyName	char[30]	Faculty Name
Password	char[30]	Password Information

Training

Field Name	Data Type	Description
BatchId	int(10)	Unique Batch Id (Auto generated)
Technology	varchar(30)	Technology Name like Jave,C,.Net etc
StartDate	varchar(30)	Start Date of Session
NoOfDays	int(10)	Total number of days for given Session
EndDate	varchar(30)	End Date of Session
VenueDetail	varchar(30)	Venue Detail for Session
NoOfParticipants	int(10)	Total number of participants in Session
Month	varchar(30)	Month information in which session starts

Faculty Assignments

Field Name	Data Type	Description
BatchId	int(10)	Unique Batch Id
Technology	varchar(30)	Technology Name like Jave,C,.Net etc
StartDate	varchar(30)	Start Date of Session
NoOfDays	int(10)	Total number of days for given Session
EndDate	varchar(30)	End Date of Session
VenueDetail	varchar(30)	Venue Detail for Session
NoOfParticipants	int(10)	Total number of participants in Session
Month	varchar(30)	Month information in which session starts
FacultyName	varchar(30)	Name of Faculty To whom session has assigned
Status	varchar(30)	Status will be Assigned only. Accepted Schedule can not be canceled.