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# Design Model

## Design Objects

### phoenix

#### core

##### controller

###### PhoenixFrontController

The control object handles the startup, shutdown and overall navigation of the system.

annualAndWeeklyScheduleCreated()

createAnnualSchedule()

createProgram()

Initiates the flow to create a new radio program.

createProgramSlot()

deleteProgram()

Initiates the flow to delete an existing radio program.

deleteUser()

enableOptions()

Enables/disables the menu items according to the access privileges of the user.

login()

Initiates the flow to perform user login.

logout()

Initiates the flow to perform user logout.

modifyProgram()

Initiates the flow to modify an existing radio program.

ModifySchedule()

processRequest()

programCreated()

The flow to create a new radio program has been terminated.

programDeleted()

The flow to delete an existing radio program has been terminated.

programModified()

The flow to modify an existing radio program has been terminated.

programSlotCreated()

scheduleModified()

userDeleted()

viewEmploymentDetails()

##### dao

###### DAOFactory

boolean checkSheduleExists()

DAOFactory()

PresenterDao getPresenterDao()

ProducerDao getProducerDao()

ScheduleDao getScheduleDao()

#### schedule

##### controller

###### AddEditScheduleCmd

String perform()

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Type** | **Documentation** |
| path | String |  |
| Req | HttpServletRequest |  |
| Resp | HttpServletResponse |  |

###### CopyProgramSlotCmd

String perform()

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Type** | **Documentation** |
| path | String |  |
| Req | HttpServletRequest |  |
| Resp | HttpServletResponse |  |

###### CopyScheduleCmd

perform()

###### DeleteProgramSlotCmd

String perform()

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Type** | **Documentation** |
| path | String |  |
| Req | HttpServletRequest |  |
| resp | HttpServletResponse |  |

###### DeleteScheduleProgramCmd

###### EnterAnnualScheduleCmd

String perform()

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Type** | **Documentation** |
| path | String |  |
| Req | HttpServletRequest |  |
| resp | HttpServletResponse |  |

boolean validateFormat()

###### EnterProgramSlotCmd

acknowledge()

String perform()

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Type** | **Documentation** |
| path | String |  |
| Req | HttpServletRequest |  |
| Resp | HttpServletResponse |  |

boolean validateFormat()

###### ManageScheduleCmd

String perform()

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Type** | **Documentation** |
| path | String |  |
| Req | HttpServletRequest |  |
| Resp | HttpServletResponse |  |

###### ReviewSelectScheduledProgramCmd

##### dao

###### Impl

ScheduleDaoImpl

boolean checkProgramSlotExists()

int createProgramSlot()

ScheduleDaoImpl()

##### delegate

###### RevielSelectProgramDelegate

RadioProgram reviewSelectProgram()

ReviewSelectProgramDelegate()

###### ReviewSelectScheduledProgramDelegate

ProgramSlot reviewSelectProgramSlot()

reviewSelectScheduledProgram()

ReviewSelectScheduledProgramDelegate()

###### ScheduleDelegate

createProgramSlot()

processCopyWeeklySchedule()

processCreate()

processDelete()

ScheduleDelegate()

##### entity

###### AnnualSchedule

This entity object represents the annual radio station program schedule as a list of weekly schedules.

Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Type** | **Documentation** |
| assignedBy | String | The identifier of the user that creates the annual schedule. |
| year | Date | The year of annual schedule. |

AnnualSchedule()

createAnnualSchedule()

findWeeklySchedule()

getAttribute()

retrieveAllWeeklySchedule()

Returns all the weekly schedules of this annual schedule.

saveWeeklySchedule()

###### ProgramSlot

This entity object represents a time slot in a weekly schedule as defined by the radio station manager in which a radio program is broadcast.

Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Type** | **Documentation** |
| assignedBy | String | The identifier of the user that creates the program slot. |
| dateOfProgram | Date | The date of the program slot. |
| duration | Integer | The duration of the program slot. |
| startTime | Date | The starting time of the program slot. |

checkOverlap()

createProgramSlot()

getAttribute()

isProgramSlotAssigned()

Checks if the program slot is currently assigned with a radio program.

removeProgram()

Removes the currently assigned radio program.

setAttribute()

###### WeeklySchedule

This entity object represents the radio program schedule for a week as defined by radio station manager in terms of a series of time slots in which specific programs are broadcast.

Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Type** | **Documentation** |
| assignedBy | String | The identifier of the user that creates the weekly schedule. |
| startDate | Date | The starting date of the weekly schedule. |

createWeeklySchedule()

getAttribute()

retrieveAllProgramSlots()

Returns all the program slots of this weekly schedule.

storeProgramSlot()

WeeklySchedule()

##### service

###### ReviewSelectScheduledProgramService

###### ScheduleService

copyWeeklySchedule()

createProgramSlot()

processCreate()

processDelete()

processModify()

ScheduleService()

##### ScheduleScreen

This boundary object represents the screen used to maintain schedules.

acknowledge()

cancelCreation()

confirmCreation()

boolean confirmModify()

displayErrorMsg()

displaySuccessMsg()

enterAnnualScheduleDetail()

enterTimeSlot()

modifyAnnualScheduleDetails()

modifyScheduledProgramAndPresenterProducer()

modifyTimeSlot()

scheduleProgramSlot()

selectProducerPresenter()

selectProgram()

show()

showSelectedProducerPresenter()

showSelectedProgram()

showSelectedProgramSlot()

validateFormat()

##### copySchedulePage

doGet()

enterDetails()

init()

##### scheduleListPage

##### setUpAnnualPage

enterScheduleDetails()

##### setUpProgramSlotPage

enterProgramSlotDetails()

enterTimeSlot()

selectPresenterAndProducer()

selectProgram()

#### user

##### controller

###### ReviewSelectPresenterProducerCmd

String perform()

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Type** | **Documentation** |
| path | String |  |
| req | HttpServletRequest |  |
| resp | HttpServletResponse |  |

###### AddEditUserCmd

String perform()

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Type** | **Documentation** |
| path | String |  |
| req | HttpServletRequest |  |
| resp | HttpServletResponse |  |

###### DeleteUserCmd

String perform()

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Type** | **Documentation** |
| path | String |  |
| req | HttpServletRequest |  |
| resp | HttpServletResponse |  |

###### ManageUsersCmd

String perform()

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Type** | **Documentation** |
| path | String |  |
| req | HttpServletRequest |  |
| resp | HttpServletResponse |  |

validateFormat()

##### dao

###### Impl

PresenterDAOImpl

loadAll()

PresenterDAOImpl()

serachMatching()

ProducerDAOImpl

ProducerDAOImpl()

RoleDAOImpl

loadAll()

RoleDAPImpl()

searchMatching()

UserDAOImpl

loadAll()

searchMatching()

User()

UserDAOImpl()

##### delegate

###### ReviewSelectProducerPresenterDelegate

reviewSelectPresenter()

reviewSelectProducer()

ReviewSelectProducerPresenterDelegate()

###### UserDelegate

processCreate()

processDelete()

processModify()

UserDelegate()

##### entity

###### Presenter

This entity object represents a presenter of a radio program.

deletePresenter()

getAttribute()

Presenter()

###### PresenterPhoto

This entity object represents the presenter's photograph to be displayed as part of their profile on the station website.

createPhoto()

deletePhoto()

getAttribute()

###### PresenterProfile

This entity object represents the personal profile of radio program presenters as would be displayed on the stati.on website.

deleteProfile()

getAttribute()

setAttribute()

###### Producer

This entity object represents a producer of a radio program.

deleteProducer()

getAttribute()

Producer()

RadioProgram()

###### Role

###### SiteLink

This entity object represents the link to one of the presenter's favourite websites to be displayed as part of their profile on the station website.

create()

delete()

deleteSiteLink()

getAttribute()

###### User

This entity object represents the common user characteristics.

Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Type** | **Documentation** |
| accessPrivilege | String | The access privileges of the user. |
| id | String | The identifier of the user. |
| name | String | The name of the user. |
| password | String | The password of the user. |
| role | String | The roles assigned to the user. |

getAttribute()

Returns the value of an attribute of the user.

setAttribute()

User()

##### service

###### ReviewSelectPresenterProducerService

reviewSelectPresenter()

reviewSelectProducer()

ReviewSelectProducerPresenterService()

###### UserService

processCreate()

processDelete()

processModify()

UserService()

##### ProducerPresenterListPage

init()

##### homePage

This boundary object represents the main screen of the PRMS application.

enableOptions()

Enables/disables the menu items according to the access privileges of the user.

enterUserDetails()

selectCreateAnnualAndWeeklySchedule()

selectCreateProgram()

The user selects the menu item to create a new radio program.

selectCreateProgramSlot()

selectDeleteProgram()

The user selects the menu item to delete an existing radio program.

selectDeleteUser()

selectLogin()

The user selects the menu item to perform user login.

selectLogout()

The user selects the menu item to perform user logout.

selectModifyProgram()

The user selects the menu item to modify an existing radio program.

SelectModifySchedule()

show()

Displays this screen.

showDeletedUser()

##### showUserPage

enterUserDetails()

init()

#### radioprogram

##### controller

###### AddEditRadioProgramCmd

This command captures the request to add a new radio program or edit an existing radio program.

String perform()

Performs the request forwarding to the setup program page for creation or editing of radio program.

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Type** | **Documentation** |
| path | String | Refer to Nocturne Application Controller framework. |
| req | HttpServletRequest | Refer to Java API specification. |
| resp | HttpServletResponse | Refer to Java API specification. |

###### DeleteRadioProgramCmd

This command captures the request to delete an existing radio program.

String perform()

Performs the request by passing the name of the radio program to delete to the Business Layer, invoking the Review/Select Radio Program use case to display the resultant list of radio programs.

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Type** | **Documentation** |
| path | String | Refer to Nocturne Application Controller framework. |
| req | HttpServletRequest | Refer to Java API specification. |
| resp | HttpServletResponse | Refer to Java API specification. |

###### EnterProgramDetailsCmd

This command captures the request to submit the details of a radio program entered by the actor.

String perform()

Performs the request by passing the input details of the radio program to be created/modified to the Business Layer, invoking the Review/Select Radio Program use case to display the resultant list of radio programs.

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Type** | **Documentation** |
| path | String | Refer to Nocturne Application Controller framework. |
| req | HttpServletRequest | Refer to Java API specification. |
| resp | HttpServletResponse | Refer to Java API specification. |

void validateFormat()

Validates the format of details entered by the actor.

###### ManageRadioProgramCmd

This command captures the request to manage radio programs.

String perform()

Performs the request by invoking the Review/Select Radio Program use case to display the current list of radio programs.

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Type** | **Documentation** |
| path | String | Refer to Nocturne Application Controller framework. |
| req | HttpServletRequest | Refer to Java API specification. |
| resp | HttpServletResponse | Refer to Java API specification. |

##### 

##### dao

###### impl

ProgramDAOImpl

The implementation of the DAO for radio programs. Refer to the documentation of the interface for the details of the class.

bool checkProgramExists()

Refer to the documentation of interface ProgramDAO.

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Type** | **Documentation** |
| input | RadioProgram |  |

void createProgram()

Refer to the documentation of interface ProgramDAO.

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Type** | **Documentation** |
| input | RadioProgram |  |

void deleteProgram()

Refer to the documentation of interface ProgramDAO.

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Type** | **Documentation** |
| name | String |  |

List<RadioProgram> findProgram()

Refer to the documentation of interface ProgramDAO.

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Type** | **Documentation** |
| input | RadioProgram |  |

void modifyProgram()

Refer to the documentation of interface ProgramDAO.

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Type** | **Documentation** |
| input | RadioProgram |  |

ProgramDAOImpl()

The constructor of the DAO implementation.

##### 

##### delegate

###### ProgramDelegate

The delegate of the Maintain Radio Programs use case.

void processCreate()

Creates a new radio program based on the input radio program.

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Type** | **Documentation** |
| input | RadioProgram | The input radio program. |

void processDelete()

Deletes the radio program with the input name.

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Type** | **Documentation** |
| name | String | The name of the radio program. |

void processModify()

Modifies an existing radio program based on the input radio program.

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Type** | **Documentation** |
| input | RadioProgram | The input radio program. |

ProgramDelegate()

The constructor of the delegate.

###### ReviewSelectRadioProgramDelegate

The delegate of the Review/Select Radio Program use case.

void reviewSelectRadioProgram()

Starts the selection of a radio program from the list of existing radio programs.

ReviewSelectRadioProgramDelegate()

The constructor of the delegate.

##### 

##### entity

###### RadioProgram

The entity object represents a radio program as defined by the radio station manager.

Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Type** | **Documentation** |
| desc | String | The description of a radio program. |
| name | String | The name of a radio program. |
| typicalDuration | int | The typical duration of a radio program. |

getAttribute()

The generic representation of getter operations.

RadioProgram()

The constructor of the class.

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Type** | **Documentation** |
| desc | String | The description of the radio program. |
| name | String | The name of the radio program. |
| typicalDuration | int | The typical duration of the radio program. |

setAttribute()

The generic representation of setter operations.

##### 

##### service

###### ProgramService

The service of the Maintain Radio Programs use case.

void processCreate()

Refer to the documentation of the delegate.

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Type** | **Documentation** |
| input | RadioProgram |  |

void processDelete()

Refer to the documentation of the delegate.

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Type** | **Documentation** |
| name | String |  |

void processModify()

Refer to the documentation of the delegate.

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Type** | **Documentation** |
| input | RadioProgram |  |

ProgramService()

The constructor of the service.

###### ReviewSelectRadioProgramService

This service of the Review / Select Radio Program use case.

void reviewSelectRadioProgram()

Refer to the documentation of the delegate.

ReviewSelectRadioProgramService()

The constructor of the service.

##### programListPage

This boundary object represents the screen used to list radio programs.

void init()

Initializes the JSP page.

selectAdd()

User request to create a new radio program.

selectDelete()

User request to delete an existing radio program.

selectEdit()

User request to modify an existing radio program.

##### setupProgramPage

This boundary object represents the screen used to maintain radio programs.

enterProgramDetails()

User request to submit the details of a new or modified radio program.

init()

Initializes the JSP page.

### AdvertItem

This entity object represents an advert to be broadcast in a time slot of a running order of a scheduled program, as defined by a producer or presenter.

### AnnualScheduleList

This entity object represents the list of annual schedules - pass, present and future - that are maintained by the system.

##### checkAnuualScheduleExists()

##### findAnnualSchedule()

##### retrieveAllAnnualSchedules()

Returns all the existing annual schedules.

##### saveAnnualSchedule()

### AuditItem

This entity object represents an advert to be broadcast in a time slot of a running order of a scheduled program, as defined by a producer or presenter.

### ChartItem

This entity object represents an item in a generated music chart, which would a musical item from the current or past playlist.

### LoginController

This control object handles the flows of the Authenticate Users use case.

##### evaluateAccessPrivilege()

Evaluates the access privileges of the user based on his/her assigned roles.

##### login()

Performs login for the user.

##### logout()

Performs logout for the user.

##### startLogin()

Initiates the login flow.

##### startLogout()

Initiates the logout flow.

##### validateUserIdPassword()

Validates the user identifier and password.

### LoginScreen

This boundary object represents the screen used by users to log-in to the system.

##### displayErrorMsg()

Displays error message indicating invalid user identifier or password.

##### displaySuccessMsg()

Displays message indicating the success in user login.

##### enterUserIdAndPassword()

Submits the user identifier and password.

##### show()

Displays this screen.

##### validateFormat()

Validates the format of the user identifier and password.

### LogoutConfirmationDialog

This boundary object is a confirmation dialog to prompt if the user wants to logout.

##### cancel()

Cancels the logout request.

##### confirm()

Confirms the logout request.

##### displayWarning()

Displays a message to warn the user on the impending logout.

### MaintainProfileController

##### acknowledge()

##### addSiteLink()

##### maintainProfile()

##### removeSiteLink()

##### updatePhoto()

##### updateProfileDetails()

### MusicChart

This entity object represents a music chart of most played pieces of music by the radio station over a given period, as generated by the radio station manager.

### MusicalItem

This entity object represents a piece of music that is defined as part of the playlist by a producer and can be selected to play in a time slot of a scheduled program's running order by a presenter or producer.

### Playlist

This entity object represents the playlist of all the pieces of music (Musical Items) that can be broadcast by the radio station as defined by the radio program producers.

### PlaylistAuditTrial

This entity object represents the complete audit trail of changes to the playlist. Each change represented by an audit item.

### Presenter/ProducerScreen

This boundary object represents the screen used to select presenters and producers.

##### displayPresenter()

##### displayProducer()

##### enterSearchCriteriaForPresenters()

##### enterSearchCriteriaForProducers()

##### selectPresenter()

##### selectProducer()

##### show()

##### traversePresenterList()

##### traverseProducerList()

### ProgramAnnotation

This entity object represents the information entered by producers and presenters concerning a scheduled program, such as featured artists, interviews, competitions etc that will feature in the program.

### ProgramController

This control object handles the Maintain Radio Program use case.

##### acknowledge()

Acknowledges the completion of the flow.

##### checkProgramNameModified()

Verifies if the selected program name (selected in the use case Review / Select Radio Program) has been modified during this flow.

##### processCreate()

Starts processing the creation of radio program details entered by the actor.

##### processDelete()

Starts processing the deletion of radio program indicated by the user.

##### processModify()

Starts processing the modification of radio details updated by the user.

##### programSelected()

Triggered by ReviewSelectProgramController upon the selection of a radio program. ReviewSelectProgramController passes in the selected radio program.

##### startCreateProgram()

Initiates the flow to create a new radio program.

##### startDeleteProgram()

Initiates the flow to delete an existing radio program.

##### startModifyProgram()

Initiates the flow to modify an existing radio program.

### ProgramList

This entity object represents the list of radio programs that is used by use cases where the user is required to select an existing program.

##### checkProgramExists()

Verifies if the given radio program is an existing one.

##### findProgram()

Searches for radio programs that fit the given criteria.

##### saveProgram()

Stores a newly created radio program.

### ProgramListScreen

This boundary object represents the screen used to list radio programs.

##### displayPrograms()

Displays some details of radio programs.

##### enterSearchCriteria()

Submits criteria for searching radio programs.

##### selectPrograms()

Selects a radio program.

##### show()

Displays this screen.

##### traverseList()

Traverses the list of radio programs.

### ProgramScreen

This boundary object represents the screen used to maintain radio programs.

##### acknowledge()

The user acknowledges the termination of the flow.

##### cancelCreation()

The user cancels the creation of a new radio program.

##### cancelDeletion()

The user cancels the deletion of a radio program.

##### confirmDeletion()

Displays a message to confirm with the user on the deletion of the radio program displayed.

##### displayErrorMsg()

Displays an error message to the user.

##### displaySuccessMsg()

Displays a message to indicate the successful completion of the flow.

##### displayWarningMsg()

Displays a message to warn the user that the selected radio program is in the schedule.

##### enterProgramDetails()

The user submits the details of radio program.

##### modifyProgramDetails()

The user submits the modified details of radio program.

##### show()

Displays this screen.

##### showSelectedRadioProgram()

Displays the details of the selected radio program (selected in the use case Review/Select Radio Program).

##### validateFormat()

Validates the format of details of radio program entered.

### RadioProgram

The entity object represents a radio program as defined by the radio station manager.

##### Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Type** | **Documentation** |
| desc | String | The description of the radio program. |
| name | String | The name of the radio program. |
| typicalDuration | Integer | The typical duration of the radio program. |

##### create()

Creates a new radio program.

##### delete()

Deletes an existing radio program.

##### getAttribute()

Returns the value of an attribute of the radio program.

##### setAttribute()

Modifies the value of an attribute of the radio program.

### ReviewSelectProducerPresenterController

##### reviwSelectProducerPresenter()

##### searchPresenters()

##### searchProducer()

##### selectPresenters()

##### selectProducer()

### ReviewSelectRadioProgramController

This control object handles the flows of the Review/Select Radio Program use case.

##### reviewSelectRadioProgram()

Initiates the flow of the review and selection of radio programs.

##### searchPrograms()

Searches for radio program based on the entered criteria.

##### selectPrograms()

Selects a particular radio program.

### ReviewSelectScheduledProgramController

##### reviewSelectRadioProgram()

### RunningOrder

This entity object represents the running order of musical items, speech and adverts as defined by the presenters and producers to be broadcast by a scheduled program.

### ScheduleController

##### acknowledge()

##### presenter/ProducerSelected()

##### processModify()

##### processProgramSlotCreation()

##### processScheduleCreation()

##### ProducerPresenterSelected()

##### programSelected()

##### ProgramSlotSelect()()

##### selectProducerPresenter()

##### selectProgram()

##### startCreateAnnualSchedule()

##### startCreateProgramSlot()

##### startModifySchedule()()

##### validateOverlap()

##### vilidateSlotDurationTime()

### ScheduledProgramScreen

This boundary object represents the screen used to review and select from existing program schedules.

### Screen

This boundary object represents the common behaviour of all user interface screens.

### SlotItem

This entity object represents the common properties of an items that can appear in a time slot of a running order.

### SpeechItem

This entity object represents a period of speech in a time slot of a running order of a scheduled program, such as a news bulletin, as defined by a producer or presenter.

### StationManager

This entity object represents the manager of the radio station.

### SystemAdministrator

This entity object represents the administrator of PRMS.

### TimeSlot

This entity object represents a time slot of a running order of a scheduled program as defined by a presenter or producer. The slot can contain a musical item or a speech item or an advert item to be broadcast in the time slot.

### UserController

##### acknowledge()

##### displaySuccess()

##### processCreate()

##### startDeleteUser()

##### startUserModify()

### UserList

This entity object represents list of users.

##### retrieveUser()

Returns the details of a user given the identifier.

### UserScreen

This boundary object represents the screen used to maintain user details.

##### acknowledge()

##### acknowledge()

##### addSiteLink()

##### confirmDelete()

##### displayEmploymentDetails()

##### displayErrorMsg()

##### displaySuccess()

##### displaySuccess()

##### displayUpdatedDetails()

##### displayUploadedPhoto()

##### displayUsers()

##### displayWarningMessage()

##### enterProfileDetails()

##### removeSiteLink()

##### select&ModifyUserDetails()

##### selectMaintainProfile()

##### selectUserToDelete()

##### showEmploymentDetails()

##### showOwnProfile()

##### uploadPhoto()

##### validateDetailsFormat()

### ViewEmploymentDetailsController

##### maintainProfile()

##### presentProfileMaintained()

##### viewEmploymentDetail()

## Use-Case Realizations

### Design of Maintain Schedule

#### Class Diagram for Maintain Schedule



1. Class Diagram for Maintain Schedule

#### Design of Copy Schedule

##### Sequence Diagram for Copy Schedule



1. Sequence Diagram for Copy Schedule

#### Design of Create Annual and Weekly Schedule

##### Sequence Diagram of Create Annual and Weekly Schedule



1. Sequence Diagram of Create Annual and Weekly Schedule

#### Design of Create/Modify Program Slot

##### Sequence Diagram of Create/Modify Program Slot



1. Sequence Diagram of Create/Modify Program Slot

#### Design of Delete Program Slot

##### Sequence Diagram for Delete Program Slot



1. Sequence Diagram for Delete Program Slot

### Design of Review/Select Presenter/Producer

#### Class Diagram for Review/Select Presenter/Producer



1. Class Diagram for Review/Select Presenter/Producer

#### Design of Review/Select Presenter/Producer



1. Design of Review/Select Presenter/Producer

### Design of Review/Select Scheduled Program

#### Class Diagram for Review/Select Scheduled Program



1. Class Diagram for Review/Select Scheduled Program

#### Sequence Diagram of Review/Select Scheduled Program



1. Sequence Diagram of Review/Select Scheduled Program

### Design of Maintain Users

#### Class Diagram of Maintain Users



1. Class Diagram of Maintain Users

#### Design of Create/Modify User

The pre-condition for this use is that the system administration has logged in to the system. The requirements for the system administrator are as follows

CREATE FLOW

1. When the use case initiates, the system administrator selects the create user option from the main screen

2. The main screen navigates to the user screen

3. The system administrator enters the user details in the user screen

4. If the user does not exist, create and store the user in the list of users and display success on the user screen

5. System administrator acknowledges the creation of the user

6. If the user exists, do not create the user

Exceptions

1. Existing user: This is handled in the standard flow in para (6)

##### Create User Sequence



1. Create User Sequence

#### Design of Delete User

##### Delete User Sequence



1. Delete User Sequence