# RealOffice System Modeling Document

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# **Table Of Contents**

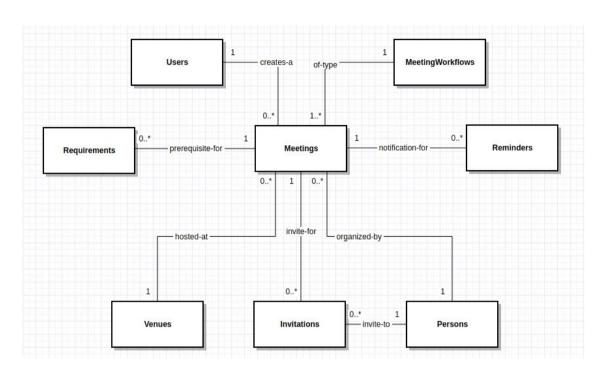
Table Of Contents	1
Introduction	2
Structural Models	3
Class Association Diagram	3
Class Diagrams	3
Behavioral Models	4
Activity Diagrams (data-driven modeling)	4
Interaction Models	9
Sequence Diagrams	9

# Introduction

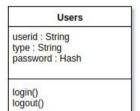
RealOffice is an application software intended for use in the CSE department office to simplify routine procedural tasks. In essence, it shall allow office staff to schedule different kinds of meetings, track meeting requirements, manage room allotments, file meeting reports and also cancel arrangements for cancelled meetings. It shall also remind the staff regarding upcoming events that need attention and facilitate routine backups as replacement for hard paperwork. It shall also integrate data from the CSE department calendar about meetings scheduled from other platforms.

# Structural Models

# 1. Class Association Diagram



# 2. Class Diagrams



Meetings	
name : String	
stime : DateTime	
etime : DateTime	
status : STATUS	
createdBy: UserId	
hostedAt : Venueld	
organizedBy: PersonId	
ofType: MeetingWorkflow	/ld

reschedule() addRequirements() addReminders()

# MeetingWorkflows meetingType : String actionList : String[] modifyActions()

# Requirements item: String qty: int cost: int orderDetails: String isApproved: Boolean prerequisiteFor: MeetingId approveRequirement() addOrderDetails()

Reminders
purpose : String sendDateTime : DateTime recipient : Personld/Userld recipientType : String notificationFor : MeetingId
dispatchRequirement()

Invitations
invitationMeeting : MeetingId invitedPerson: PersonId isAttending : Boolean
changeAttendingStatus()

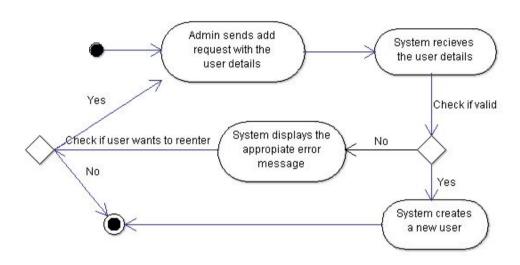
Persons	S
name : String email : String	

Venues
infrastructure : String[ room : String capacity : int
modifyInfrastructure() changeCapacity()

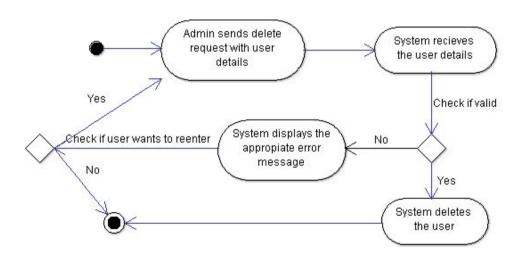
## **Behavioral Models**

## Activity Diagrams (data-driven modeling)

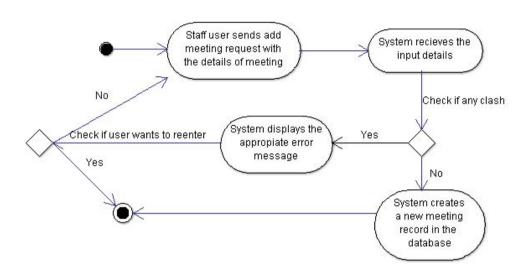
1. Admin Scenario 1: Add User



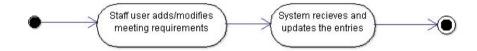
#### 2. Admin Scenario 2: Delete User



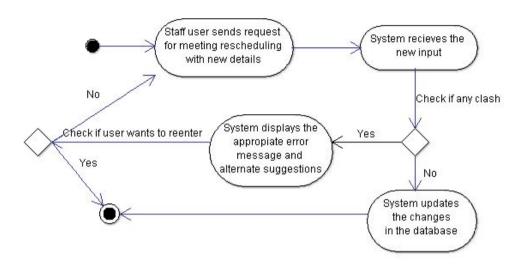
#### 3. Staff User Scenario 1: Add Meeting



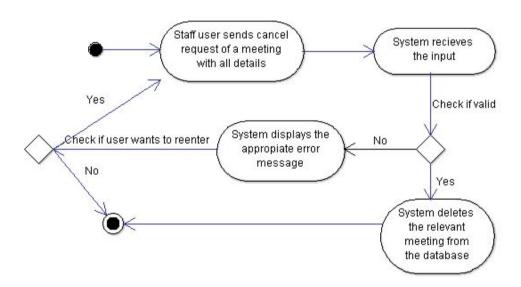
#### 4. Staff User Scenario 2: Add Meeting Requirements



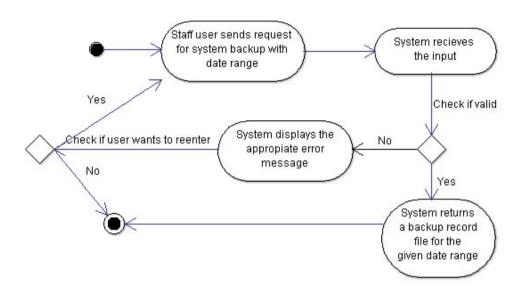
#### 5. Staff User Scenario 3: Reschedule Meeting



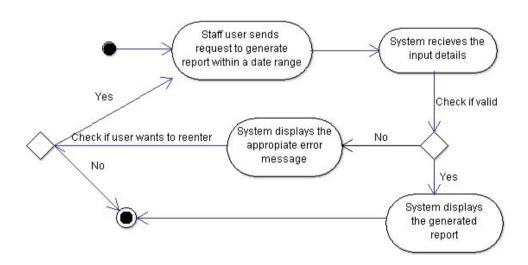
#### 6. Staff User Scenario 4: Cancel Meeting



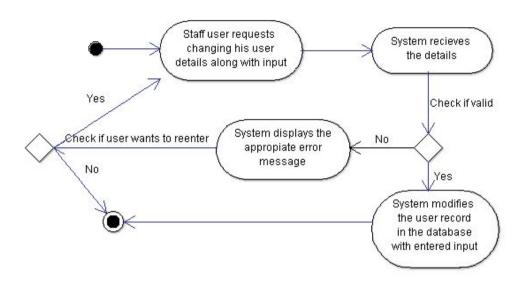
#### 7. Staff User Scenario 5 : Generate Backup



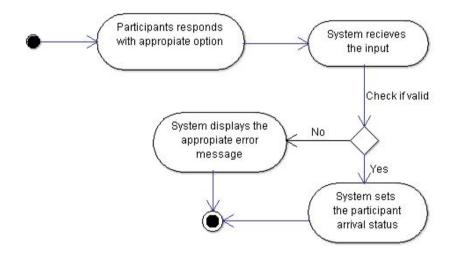
#### 8. Staff User Scenario 6 : Generate Report



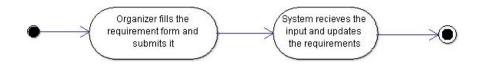
#### 9. Staff User Scenario 7: Edit own user details



#### 10. Participant Scenario 1: RSVP Remainders



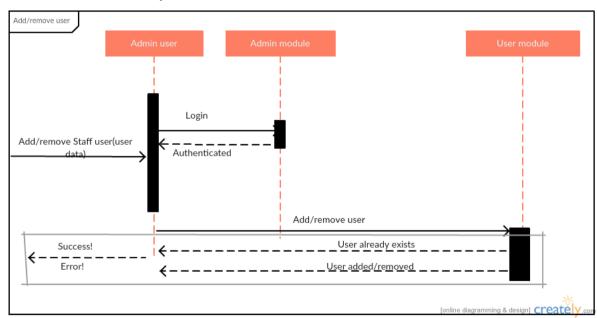
#### 11. Organizer Scenario 1: Request Requirements



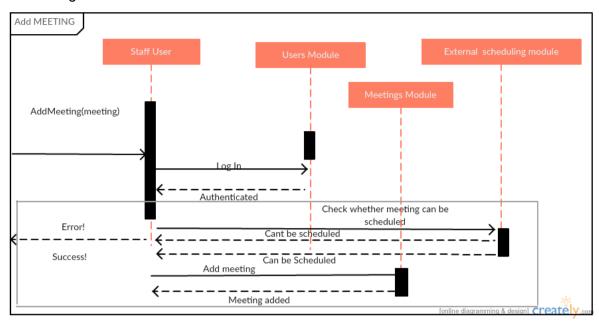
# **Interaction Models**

# Sequence Diagrams

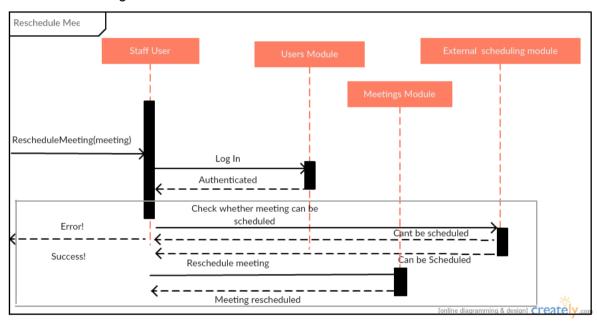
1) Add/remove staff users by admin users



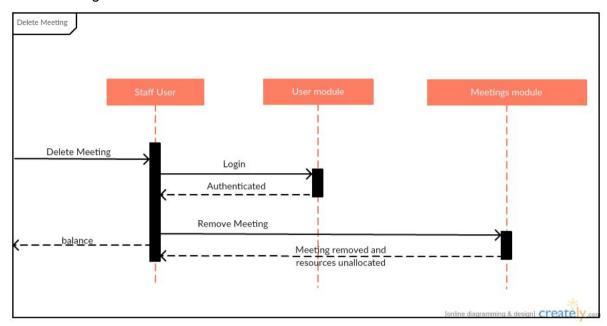
#### 2) Add Meeting



#### 3) Reschedule meeting



#### 4) Delete meeting



#### 5) Get meeting reports between 2 dates given

