

Use Case Analysis

Use Case Name: User Authentication		ID: 1.1	Priority: High
Actor:	User		
Description:	The employees who want to make reservations using workspace management system need to validate that they work for a specific organization by entering their user ID and password.		
Trigger:	User needs to login to make reservation		
Type:	<input checked="" type="checkbox"/> External <input type="checkbox"/> Temporal		
Preconditions:	1. The user has login credentials		
Normal Course:	1. The user enters their user ID and password. 2. The system verifies the information entered by the user. 3. If the entered information is correct, the system asks further questions regarding reservations.		
Postconditions:	The user makes the required reservation they need to make to complete their office work.		
Exceptions:	E1. If the user enters wrong information. 1. System displays message " Wrong information entered, please try again" 2. User enters information again.		

Use Case Analysis

Use Case Name: Make Reservation		ID: 1.2	Priority: High
Actor:	Employee		
Description:	The system helps the user to make reservations when they need access to a computer desktop or a conference room.		
Trigger:	The user needs to reserve an office asset		
Type:	<input checked="" type="checkbox"/> External <input type="checkbox"/> Temporal		
Preconditions:	1. The user has been authenticated.		
Normal Course:	1. The user mentions if they want to reserve a desk or a conference room, at what time, which day and for how long. 2. The system checks its database to see what accommodations can be made. 3. If something is available, the system notifies the user about that.		
Postconditions:	The employee gains individual access to a computer desktop or conference room and complete their task.		
Exceptions:	E1: All accommodations have been already reserved, so the user cannot make any reservations. 1. The system displays message " No reservations available now, please try again later ". 2. The user asks to exit. 3. The system terminates the use case		

Use Case Analysis

Use Case Name: Cancel Reservation		ID: 1.3	Priority: High
Actor:	Employee		
Description:	The employee wants to cancel the reservation they made previously.		
Trigger:	The user needs to cancel a previously made reservation		
Type:	<input checked="" type="checkbox"/> External <input type="checkbox"/> Temporal		
Preconditions:	1. The user is authenticated 2. the user has a preexisting reservation that can be canceled		
Normal Course:	1. The user selects the reservation that they would like to cancel 2. Under the details sections there is a cancel option 3. User clicks the 'cancel' button and is presented with a confirmation		
Postconditions:	1. The database is updated to reflect the state change of the asset. 2. The users history is updated to show the cancellation.		
Exceptions:	E1: User does not have permission to cancel 1. The system displays error "You are not allowed to cancel this reservation" 2. The system asks the user if they would like to request permission 3a. The users requests permission 4b. The system sends the request to the appropriate party 3a. The user does not ask for permission 4a. The message closes, and no changes are made		

Use Case Analysis

Use Case Name: Reservation Conflict		ID: 1.4	Priority: Medium
Actor:	Reservation System		
Description:	System checks requested reservation time with current reservations. If the time slot for a room is available, then the reservation can be made.		
Trigger:	Reservation is requested		
Type:	<input checked="" type="checkbox"/> External <input type="checkbox"/> Temporal		
Preconditions:	1. User has logged into the system 2. User has made reservation request		
Normal Course:	1.0 Reservation time is requested 1. System searches reservation location and time in the Reservation database 2. System returns either available or not available 3a. System denys reservation 3b. System displays message "Space is available"		
Postconditions:	1. System allows reservation to be made		

Exceptions:	E1. Reservation overlaps 1. System returns denial of reservation
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Use Case Analysis

Use Case Name: Management viewing		ID: 1.5	Priority: Medium
Actor:	Manager		
Description:	Manager is able to view where employees have their reservation spaces.		
Trigger:	Manager clicks to view location		
Type:	<input type="checkbox"/> External <input checked="" type="checkbox"/> Temporal		
Preconditions:	<ol style="list-style-type: none">1. Admin log in has been used2. System is up to date3. Reservations have been made		
Normal Course:	<ol style="list-style-type: none">1.0 Manager views all reservations on a floor1. Reservations with Employee names are pulled from database2. System displays all employees3. Manager can select employee to see their location history4. Manager can select empty spaces to view reservations and history5. Manager exits system		
Postconditions:	<ol style="list-style-type: none">1. Manager has knowledge of where employees are and what space is free		

Exceptions:	
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Use Case Analysis

Use Case Name: Store Asset Information		ID: 2.1	Priority: High
Actor:	System		
Description:	The system contains a table that can store information regarding a specific office asset.		
Trigger:	The user submits a asset description through a form		
Type:	<input checked="" type="checkbox"/> External <input type="checkbox"/> Temporal		
Preconditions:	<ol style="list-style-type: none">1. The user is authenticated2. The user has permission to add asset definitions to the database		
Normal Course:	<ol style="list-style-type: none">1. The user completes a form with information about the asset2. The information is sent to the system3. The system confirms that the asset's information follows business rules4. The system records the information in the database5. A message is presented to the user confirming the success of the transaction		
Postconditions:			
Exceptions:	<p>E1: A business rule is violated</p> <ol style="list-style-type: none">1. Show message to user regarding the rule violation2a. User corrects the violation and resubmits the form3a. System continues with the transaction2b. User cancels the transaction3b. No changes are made		

Use Case Analysis

Use Case Name:	Database Update	ID:	2.2	Priority:	High
Actor:	System				
Description:	The system should record events as soon as reasonably possible to prevent reservation conflicts and system errors				
Trigger:	A user submits a request to the system (e.g. reservation, cancellation, ...)				
Type:	<input checked="" type="checkbox"/> External <input type="checkbox"/> Temporal				
Preconditions:	1. The database is online 2. The user submitting the information is authenticated				
Normal Course:	1. A user submits a request through the application to perform an action (e.g. reservation, cancellation, ...) 2. The query is received by the system and processed by the database 3. After processing the query the appropriate response is sent to the user				
Postconditions:					
Exceptions:	E1: A business rule is violated by the users request 1. A message is sent to the user regarding the error 2. Appropriate changes are made 3. The system returns to a normal operating state				

Use Case Analysis

Use Case Name:	Data Archiving	ID:	2.3	Priority:	High
Actor:	System				
Description:	The system should keep a history of asset usage				
Trigger:	A user submits a request to the system (e.g. reservation, cancellation, ...)				
Type:	<input checked="" type="checkbox"/> External <input type="checkbox"/> Temporal				
Preconditions:	<ol style="list-style-type: none">1. The database is online2. The user submitting the information is authenticated				
Normal Course:	<ol style="list-style-type: none">1. A user submits a request through the application to perform an action (e.g. reservation, cancellation, ...)2. The query is received by the system and processed by the database3. After processing the query the appropriate response is sent to the user4. The query information is stored in an a archive portion of the database for later analysis and retrieval				
Postconditions:					
Exceptions:	<p>E1. the database is offline</p> <ol style="list-style-type: none">1. Return an error2. Attempt to retry the query				