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Title: Tardis-box

Project Summary:

Tardis-box is a no-charge media distribution system. It will allow a guest to view and sort the available media and, if desired, create a member account using a valid email address. The member may delete this account, if all borrowed media has been checked in.

A member may view and sort the media with the option to check-out an item. If the requested media is unavailable, the request can be waitlisted to be checked out to the user as soon as it is available. The member may check in media.

Anyone may view and sort the media. Only an admin can add and delete media. An administrator can delete a member account, if necessary.

Project Requirements:

Business Requirements						
ID	Requirement	Topic Area	User	Priority		
BR-01	Member usernames must be a valid e-mail address.	Accounts	Member	Medium		
BR-02	Only admin can add/delete media items.	Database	Admin	Medium		
BR-03	Guests can view available media without having to create an account or login.	Database	Guest	Critical		

User Requirements						
ID	Requirement	Topic Area	User	Priority		
UR-01	Guest can request and create their own account	Accounts	Guest	Critical		
UR-02	Any user can view media list	Database	All	Critical		
UR-03	A member can remove their account if certain conditions are met (e.g. no items checked-out items).	Accounts	Member	Medium		
UR-04	A member can make a request to checkout media.	Database	Member	Critical		
UR-05	A member can check in media.	Database	Member	Critical		
UR-06	An admin can delete an account	Accounts	Admin	Medium		
UR-07	Any user may sort media list	Database	All	Medium		
UR-08	Any user may view additional details of an item	Database	All	Medium		

Function	Functional Requirements						
ID	Requirement	Topic Area	User	Priority			
FR-01	There must be a display of the media that shows the title and an associated picture.	Database	All	Critical			
FR-02	There must be a way to put media on a waitlist, if necessary.	Accounts	Admin	Medium			
FR-03	There must be a way to remove item from waitlist (and check it out to a requestor)	Database	Admin	Medium			

Non-Fu	Non-Functional Requirements						
ID	Requirement	Topic Area	User	Priority			
NR-01	Time to cycle from one page media titles to the next must be reasonable.	User Interface	All	Medium			
NR-02	Member credentials must be encrypted.	Accounts	Member	Low			
NR-03	Web pages need to be clearly worded and easy to navigate.	User Interface	All	Medium			

Users and Tasks:

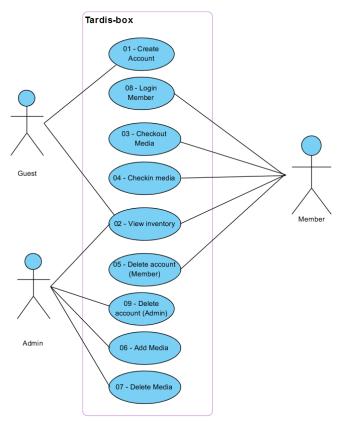


Figure 1: Use Case Diagram

Use Case ID:	UC-01				
Use Case Name:	Create	Create Account			
Description:		a guest to create a member account			
	access	to the database of items to check or	ıt.		
Actor:	Guest				
Pre-conditions:	Membe	er database must exist			
Post-conditions:	Guest l	pecomes a Member			
Frequency of Use:	Unknov	Unknown, potentially 100% of guests			
Flow of Events:		Actor Action	System Response		
	1.	Guest visits homepage and clicks	Accesses the create account		
		on "create account" button	page		
	2.	Guest enters first and last names,	System verifies that the email		
		a valid email-id, enters a	is valid, creates entry in the		
		password, then presses "ok"	member database containing		
			this information. System		
			issues an "account created"		
	message				
Variations:	Guest enters an invalid email-id. System issues error message then clears				
	the create account page. Guest omits information – error message issued				
	screen cleared.				
Notes & Issues:					
Developer Notes:					

Use Case ID:	UC-02				
Use Case Name:	View Ir	View Inventory			
Description:	allow t	Allow a guest, member, or admin to access the item database. This will allow them to scroll through and sort (by item number, name, or description)			
Actor:	All				
Pre-conditions:		Database exists with ability to sort and scroll, Guest/Member has accessed			
B	the View Media page				
Post-conditions:					
Frequency of Use:	Arbitra	ry, depends on guest/member needs			
Flow of Events:		Actor Action	System Response		
	1.	Uses scroll bar	Moves list up or down, depending on the direction user is moving scroll bar		
	2.	Sort by clicking one of the column headers (once for ascending order, twice for descending order)	Sorts the list using the selected column, either in ascending or descending order as indicated by the number of clicks.		
	3.	Double click item	Displays additional		

			information	
Variations:				
Notes & Issues:	The bo	The borrow/return buttons will be grayed out when page is accessed from		
	the home page instead of the sign in page.			
Developer Notes:				

Han Cont ID:	110.03			
Use Case ID:	UC-03			
Use Case Name:	Borrow Media			
Description:	Membe	er may borrow an item if it is available	e (not already checked-out).	
Actor:	Membe	er		
Pre-conditions:	Membe	er is signed in and has accessed the V	iew Media page	
Post-conditions:		either checked-out to the member o member.	r has been placed on a waitlist	
Frequency of Use:	Arbitra	ry, estimated at least once per memb	oer login.	
Flow of Events:		Actor Action	System Response	
	1.	Enters an item number into the check-out field, Clicks OK button	Checks to see if the item is available. If it is, the item is checked-out to the member and a check-out successful message is issued. If not available, system issues message asking member if he wishes to add the item to the waitlist.	
	2.	Selects yes	Item is added to waitlist and system issues confirmation message.	
	3.	Selects no	Item is not added to the waitlist	
Variations:	Issue error message if the item number is invalid.			
Notes & Issues:				
Developer Notes:				

Use Case ID:	UC-04	UC-04				
Use Case Name:	Check I	n Media				
Description:	Membe	Member returns an item which had been borrowed				
Actor:	Member					
Pre-conditions:	The item must already be checked-out, member is logged in and has					
	accessed the view items page					
Post-conditions:	The item is available for check-out					
Frequency of Use:	Done for up to 100% of items borrowed, estimate many times daily					
Flow of Events:		Actor Action System Response				

	1.	Enters item number in the check	System makes item available
		in field, presses OK	for check-out, updates item
			list, and removes it from the
			member's account. Issues a
			"check in successful" message.
	2.		If item is on waitlist, system
			checks it out to the next user
			who requested the item.
	3.		If item is not on waitlist,
			system makes item available
			for general checkout
Variations:	Members enters an invalid item number - either already available in the		
	database or the item does not exist. An appropriate error message is		
	displayed for each error and the check in field is cleared.		
Notes & Issues:	and progress of the control of the c		
Developer Notes:			

Use Case ID:	UC-05				
Use Case Name:	Delete	Delete Account (Member)			
Description:	Membe	er may delete account as long as all it	ems have been checked-in		
Actor:	Membe	er			
Pre-conditions:	Must b	e on login page			
Post-conditions:	Accoun	t no longer exists			
Frequency of Use:					
Flow of Events:		Actor Action	System Response		
	1.	Enters email-id and password	Verifies information		
	2.	Clicks on Delete button	Verifies that no items are		
			checked-out, removes account		
			and issues confirmation email		
Variations:	Email-id and/or Password invalid – system issues error message and clears				
	screen				
	Items checked out – system issues message instructing Member to return				
	items before account can be deleted				
Notes & Issues:					
Developer Notes:					

Use Case ID:	UC-06		
Use Case Name:	Add media		
Description: A new media item can be added to the system.			
Actor:	Admin		

Pre-conditions:	The media item must not already exist. Admin is logged in and on the admin			
	panel	panel		
Post-conditions:	The new media item was added and is available for checkout.			
Frequency of Use:	Arbitrary, anytime an admin needs to add media. Est: weekly			
Flow of Events:		Actor Action	System Response	
	1.	Click on "Add items" button	Add media page is displayed	
	2.	Fill in media entry form	Data is displayed	
	3.	Click on 'add item' button	The media is added to the	
			database	
Variations:	Click on 'add item and exit' button, media is added to database, return to			
	admin page			
Notes & Issues:				
Developer Notes:				

Use Case ID:	UC-07		
Use Case Name:	Delete media		
Description:	A media item needs to be removed from the system.		
Actor:	Admin		
Pre-conditions:	The media item must exist, admin is logged in and on the admin page		
Post-conditions:	The media item deleted no longer exists in the system.		
Frequency of Use:	Arbitrary, anytime an admin needs to delete media. Est: weekly		
Flow of Events:		Actor Action	System Response
	1.	Click on the Delete media button	List of media is displayed on
			Delete media page
	2.	Select item to be deleted	Item is highlighted
	3.	Click on Delete button	Media is removed, remain on
			delete media page
Variations:	Click on 'Delete and Exit' – returns to admin page		
Notes & Issues:			
Developer Notes:			

Use Case ID:	UC-08		
Use Case Name:	Login Member or Admin		
Description:	A member may login to account		
Actor:	Member		
Pre-conditions:	Member is on login page (accessed from the Home page)		
Post-conditions:	Member is logged in		
Frequency of Use:			
Flow of Events:		Actor Action	System Response
	1.	Enter email-id and password,	Verifies information, if account

		clicks on Login button	is an admin account, the
			system will go to the admin
			page.
			, -
			Members are logged in and
			sent to view items page
	2.		If waitlisted item is now
			available, system displays
			message indicating that the
			item is available for check-out
			and will be deleted from the
			waitlist (checkout is in
			different UC table)
Variations:	Email-id and/or Password invalid – system issues error message and clears		
	screen		
Notes & Issues:			
Developer Notes:			

Use Case ID:	UC-09		
Use Case Name:	Delete account (Admin)		
Description:	Administrators can remove user accounts		
Actor:	Admin		
Pre-conditions:	The user that needs to be deleted exists, admin is logged in and on the		
	admin page		
Post-conditions:	The selected user no longer exists.		
Frequency of Use:	Arbitrary, anytime a user needs to be removed by an administrator. Est:		
	monthly.		
Flow of Events:		Actor Action	System Response
	1.	Click on the Delete Account	List of users is displayed on
		button	Delete Member page
	2.	Select a user	The user is highlighted
	3.	Click on Delete button	User is removed, delete user
			page still displayed
Variations:	Click on 'Delete and Exit' button, user is removed, return to admin page		
Notes & Issues:			
Developer Notes:			