

Team: Paul Boschert, Teresa Creech

Title: Tardis-box

Project Summary:

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

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

An administrator may view and sort the media.. Only an admin can add and delete media. An administrator can delete a user account, if necessary and can handle overdue items.

Project Requirements:

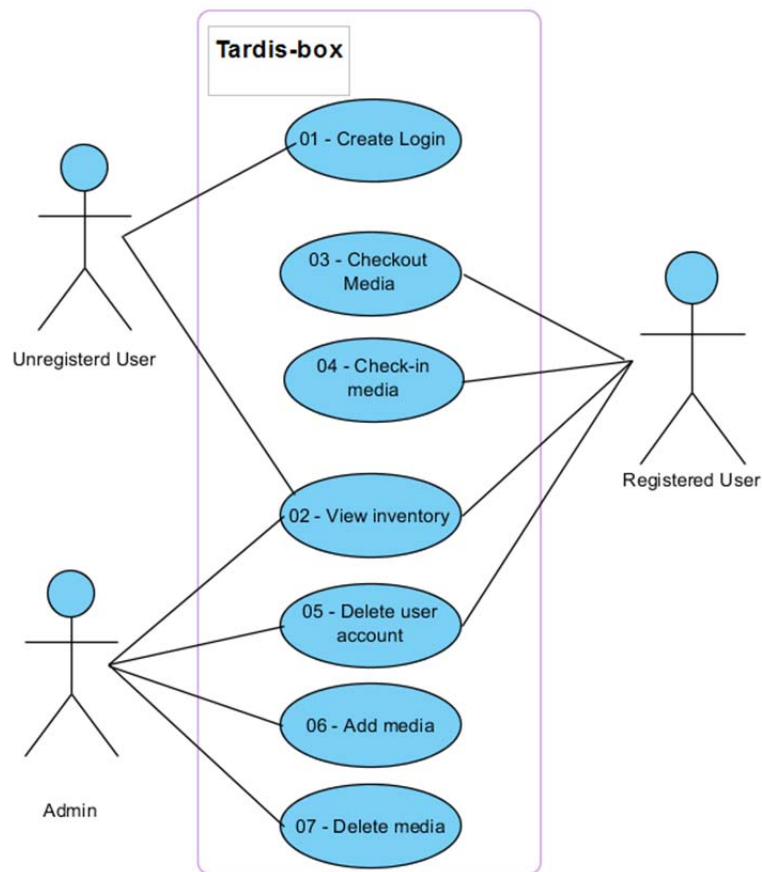
Business Requirements				
ID	Requirement	Topic Area	User	Priority
BR-01	User account usernames must be a valid e-mail address.	Accounts	Registered User	Medium
BR-02	Only admin can add/delete media items.	Database	Admin	Medium
BR-03	Potential customers can view available media without having to create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

User Requirements				
ID	Requirement	Topic Area	User	Priority
UR-01	Unregistered user can request and create their own account	Accounts	Unregistered User	Critical
UR-02	Any user can view a help/contact page	User Interface	All	Low
UR-03	Any user can view media list	Database	All	Critical
UR-04	A user can remove their account if certain conditions are met (e.g. no overdue items).	Accounts	Registered User	Medium
UR-05	A user can make a request to checkout media.	Database	Registered User	Critical
UR-06	A user can check-in media.	Database	Registered User	Critical
UR-07	An admin can delete an account	Accounts	Admin	Medium
UR-08	An admin can handle overdue items	Accounts	Admin	Medium

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 view details of a particular media item (besides just a picture and title) that shows a short description and possibly other details e.g. IMDB data).	Database	All	Medium
FR-03	There must be a way to sort the media for display to the user.	Database	All	Medium
FR-04	There must be a way to put media on a waitlist, if necessary.	Accounts	Admin	Medium
FR-05	There must be a way to remove item from waitlist (and check it out to a requestor)		Admin	Medium

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	User credentials must be encrypted.	Accounts	Registered user	Low
NR-03	Web pages need to be clearly worded and easy to navigate.	User Interface	All	Medium

Users and Tasks:



Use Case ID:	UC-05
Use Case Name:	Delete user account
Description:	Administrators can remove user accounts
Actor:	Admin

Pre-conditions:	The admin must be logged in and the user must exist.		
Post-conditions:	The deleted 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.	Log in to Tardis-box	User credentials are verified
	2.	Click on administrator panel	Administrative options are displayed
	3.	Click on user sub-panel	A list of users is displayed
	4.	Select a user	The user is highlighted
	5.	Click the remove icon	The user is removed
Variations:			
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:	An admin must be logged in and the media item must not already exist.		
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.	Log in to Tardis-box	User credentials are verified
	2.	Click on administrator panel	Administrative options are displayed
	3.	Click on media sub-panel	A list of media actions is displayed
	4.	Click on add media	The media entry form is displayed
	5.	Enter media details; click submit	The new media item is added
Variations:			
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:	An admin must be logged in, and the media item must exist.		
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.	Log into Tardis-box	User credentials are verified
	2.	Click on administrator panel	Administrative options are displayed
	3.	Click on media sub-panel	A list of media actions is displayed
	4.	Click on delete media	A list of available media items is displayed
	5.	Select the media item; click delete	The media item is deleted
Variations:			
Notes & Issues:			
Developer Notes:			

Activity Diagram:

Data Storage

UI Mockups:

User Interactions:

Class Diagram: