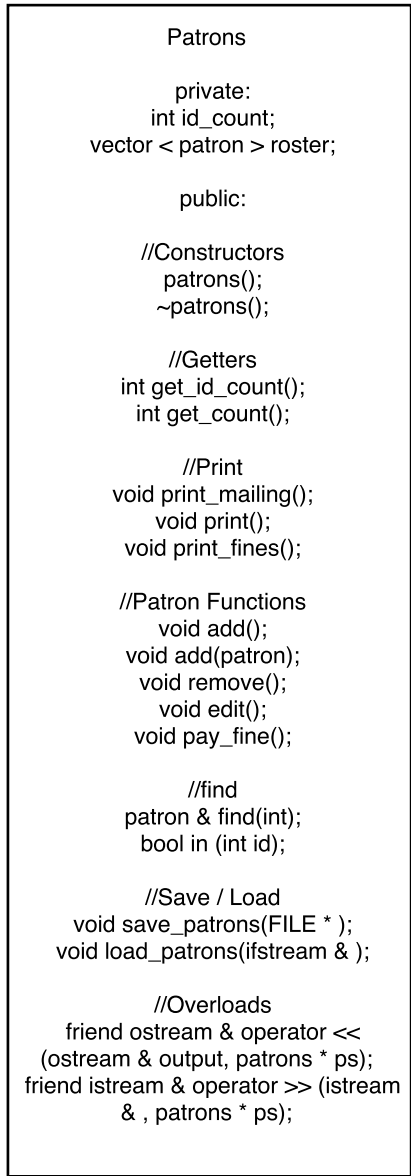
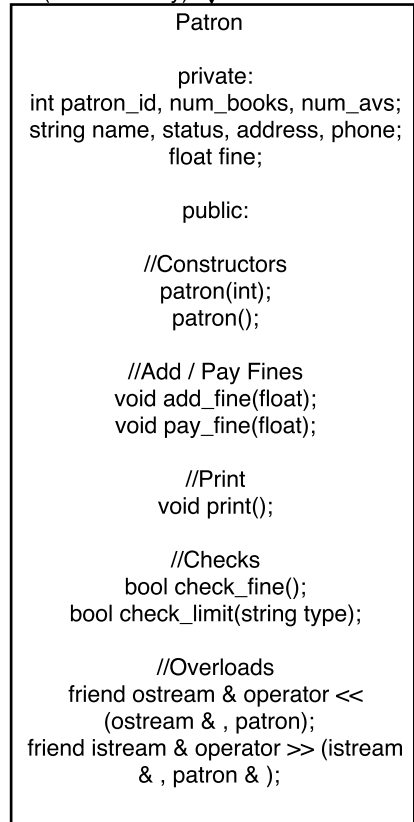


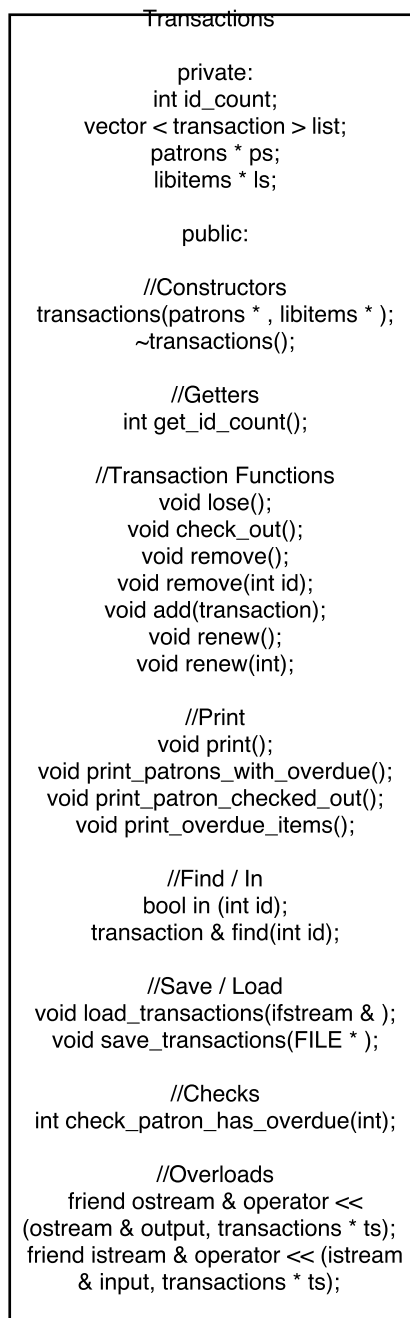
	Justin Wei	JustinWei@my.unt.edu	CSCE1040			Name	Type	Class	Description
						title	string	DVD	title
	Name	Type	Class	Description		production studio	string	DVD	production studio
	id count	int	patrons	used for generating unique ids		duration	time_t	DVD	duration
	roster	vector<patron>	patrons	holds patrons					
						Name	Type	Class	Description
	Name	Type	Class	Description		artist	string	CD	artist
	patron id	int	patron	patron id		label	string	CD	label
	num books	int	patron	num books borrowed					
	num avs	int	patron	num avs borroed		Name	Type	Class	Description
	name	string	patron	name		title	string	Book	title
	status	string	patron	status		author	string	Book	author
	address	string	patron	address		publisher	string	Book	publisher
	phone	string	patron	phone number					
	fine	float	patron	fine balance		Name	Type	Class	Description
						title	string	DVD	title
	Name	Type	Class	Description		author	string	DVD	author
	id count	int	libitems	used for generating unique ids		publisher	string	DVD	publisher
	items	vector<libitem*>	libitems	holds libitem pointers		editor	string	DVD	editor
	Name	Type	Class	Description		Name	Type	Class	Description
	id	string	libitem	libitem id		id	int	Transaction	id
	status	string	libitem	status		patronid	int	Transaction	patronid
	type	string	libitem	type of item		item id	int	Transaction	item id
	loan period	time_t	libitem	loadn period		due	time_t	Transaction	due
	fine rate	float	libitem	fine rate		renewable	bool	Transaction	renewable
	replacement cost	float	libitem	replacement cost					
	renewable	bool	libitem	renewable		Name	Type	Class	Description
	borrowable	bool	libitem	borrowable		idcount	int	Transactions	used for generating unique ids
						list	vecotr<transaction>	Transactions	holds transactions
						ps	patrons*	Transactions	patrons contrioller
						ls	libitems{*	Transactions	libitems controller



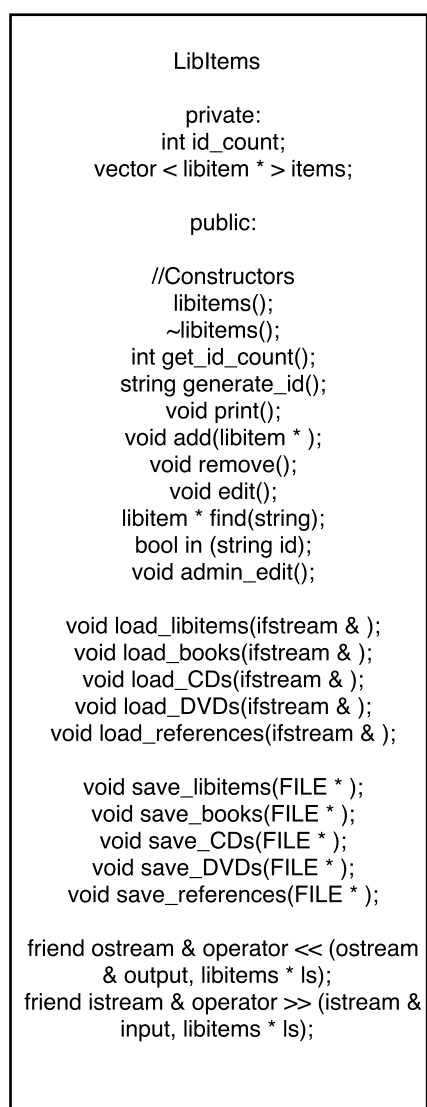
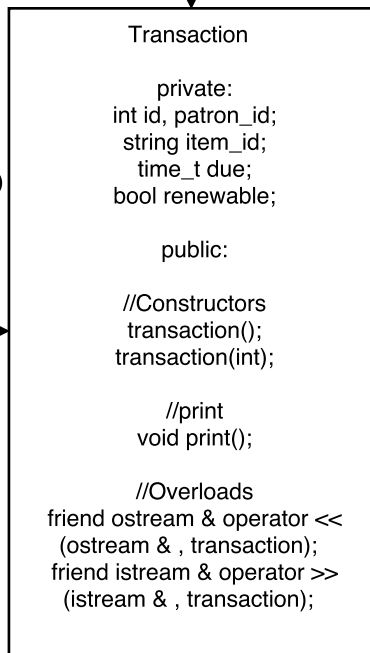
Manages  
(One to many)



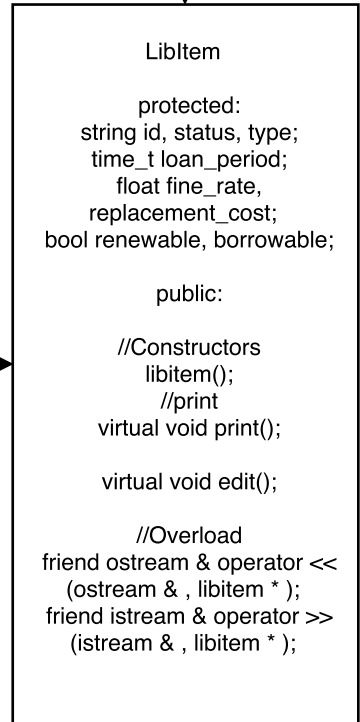
Checks Out  
(One to Many)



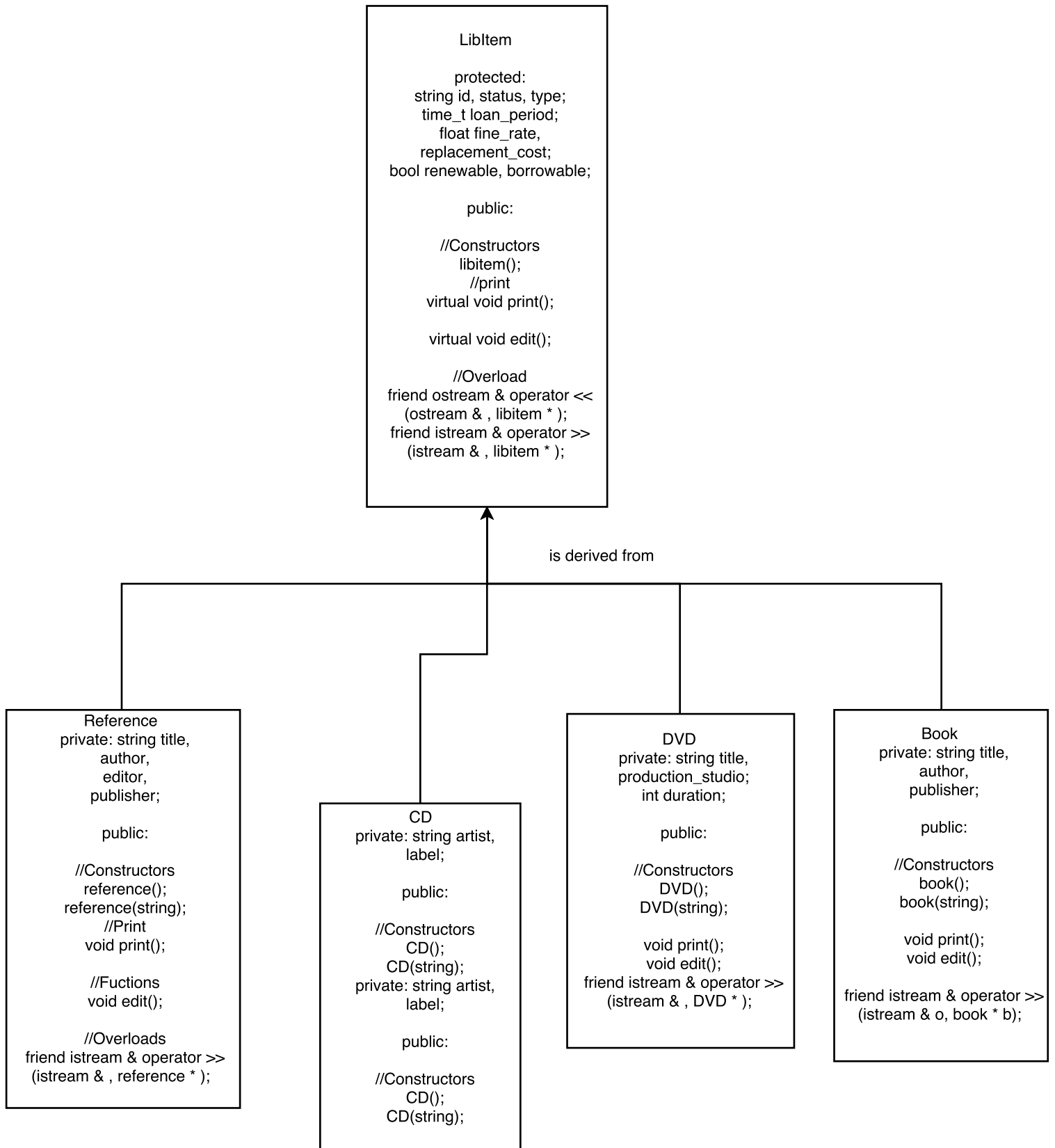
Manages  
(One to Many)



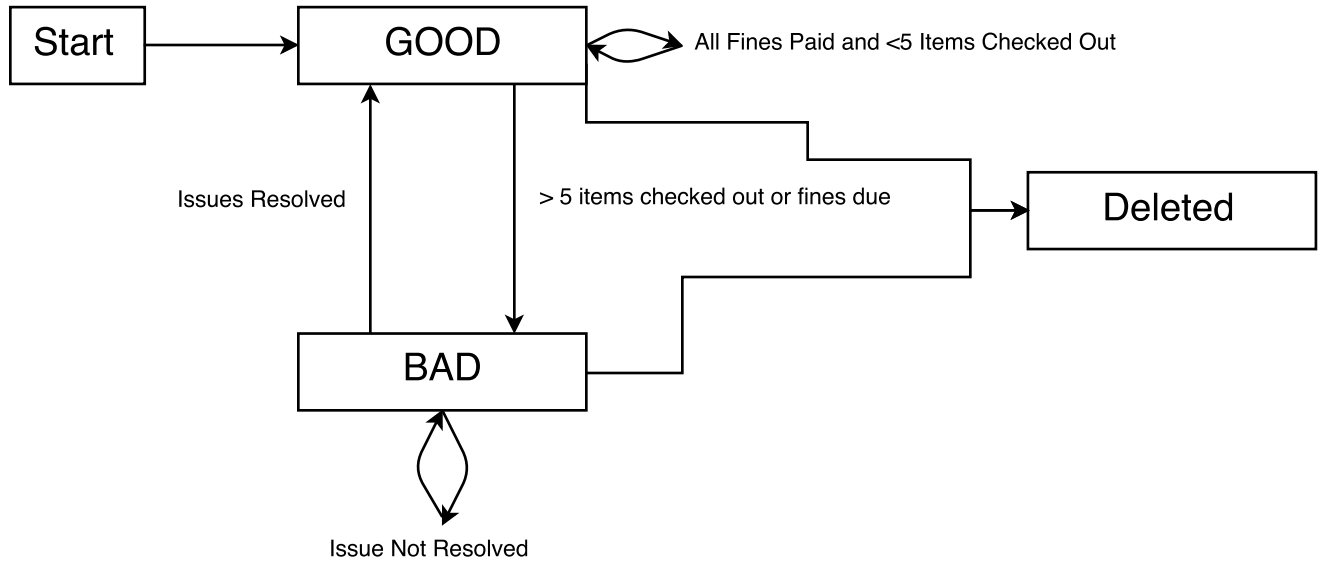
Manages



Holds



# Patron Status State Diagram



# Book Status State Diagram

