

Casino Simulator

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Requirements

ID	Requirement	Topic Area	Actor	Priority
UR-001	As a new User, so that I can choose who to play as, I want to be able to pick Owner or Player	Startup	Program Driver	Critical
UR-002	As an Owner, I can create a casino, and chose what games to add into it.	Casino functionality	Owner/Casino	Critical
UC-01	A new user can decide between owner and player on initial account creation	Startup	User	Critical
UC-02	A new Owner is given the initial funds of \$500,000 to add initial games to the casino	Casino functionality	Owner/Casino	Critical

Use Cases

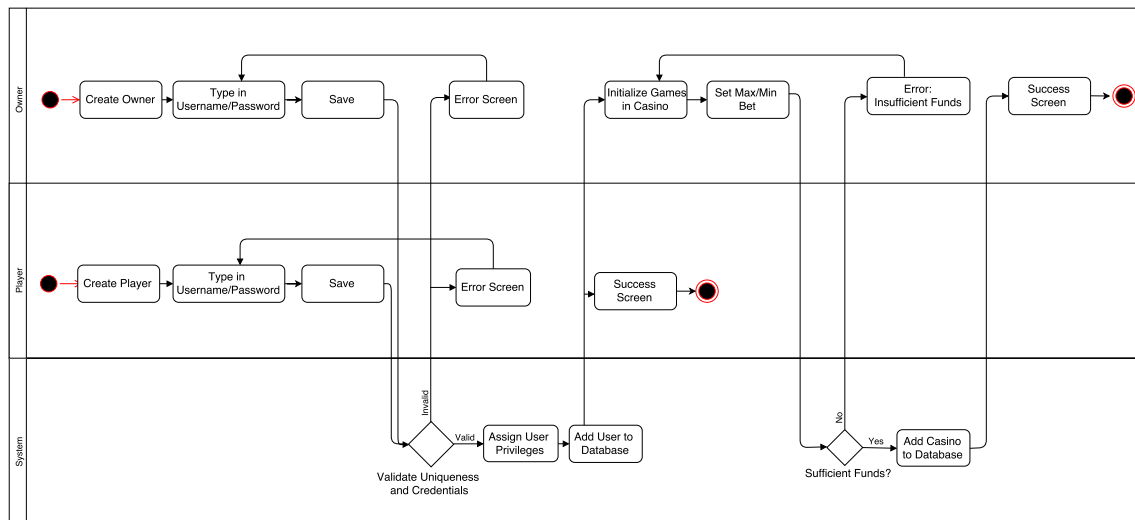
Use Case ID:	UC-01
Use Case Name:	Create Account
Description:	A new user can decided between owner and player on initial account creation

Actors	New Users	
Pre-conditions:	A user wants to create a new account on Casino Sim and does not have a current account	
Post-conditions	A new Player or Owner is entered into the database	
Frequency of Use:	Every time a new user is created	
Flow of Events:	Actor Action	System Response
	1 Click "New Player, or "New User"	Bring up Username/Password Fields
	2 Type in Username/Password	Authenitcate Unique Username and Matching Passwords
	3 Type in correct information	Add user to Database
	4	
	5	
Variations:	3 Throw error if user types in non unique username and/or miss matching passwords	
Notes and Issues:	There should be an explanation of Player and Owner at time of decision	
Developer Notes:	Database is Firebase	

Use Case ID:	UC-02	
Use Case Name:	Create Casino	
Description:	A new Owner can create a casino and add games to it	
Actors	Owners	
Pre-conditions:	A new Owner is given the initial funds of \$500,000 to add initial games to the casino	
Post-conditions:	The Owner is taken to an overview of the casino and the current games in it	
Frequency of Use:	Every time a new casino is created by a new Owner	
Flow of Events:	Actor Action	System Response
	1 Choose Game to add	Pull up appropriate game page
	2 Assign the maximum and minimum bet for the game	Set maximum and minimum on the Object "Game"
	3 Click "Buy Game"	Validate Funds, add to Database
	4 Click "Done"	Add Casino to Database and bring Owner to overview page
	5	
Variations:	3 Throw error if Owner does not set valid max/min	
	3 Throw error if Owner does not have appropriate funds	
Notes and Issues:	The user should see graphical representations of the games along with statistics	
Developer Notes:	Database is Firebase	

Activity Diagram

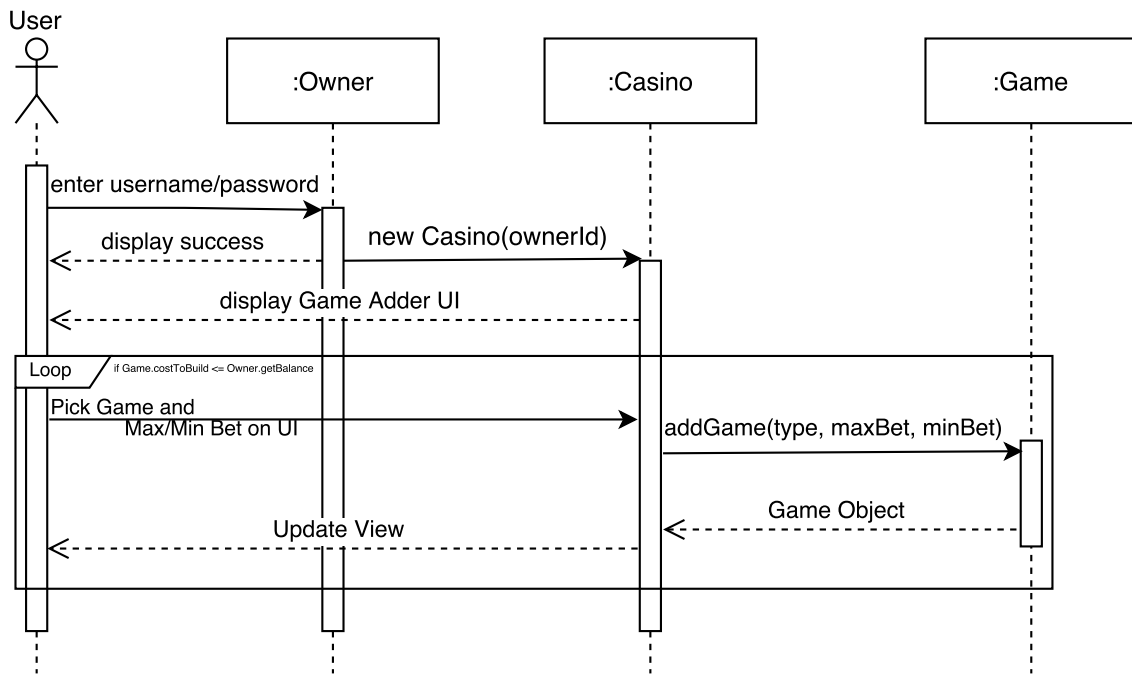
The Activity Diagram uses UR-001, UR-002, UC-01(creating an account), and UC-02(creating a Casino).



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User Interactions

This Sequence Diagram uses UR-001(but having the user choose Owner), UR-002, UC-01(creating an account as an owner), and UC-02(creating a Casino).



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