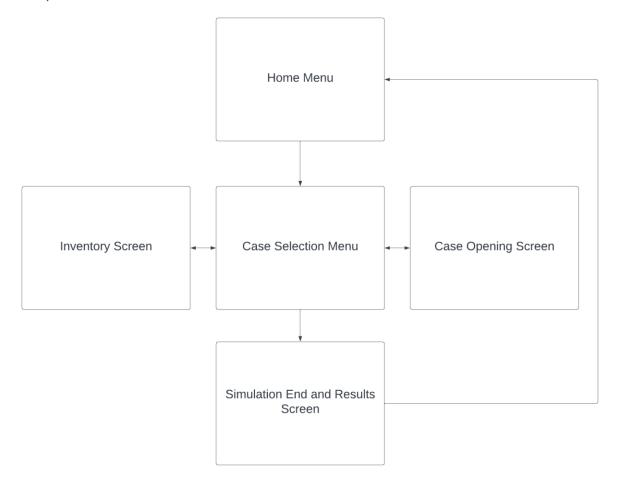
HSC SDD Major Project Diagrams

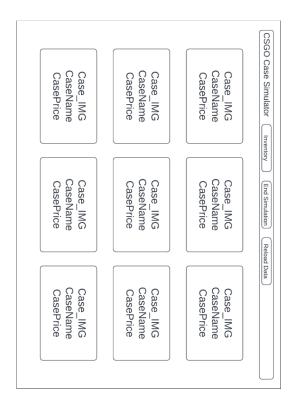
CS:GO Case Opening Simulator

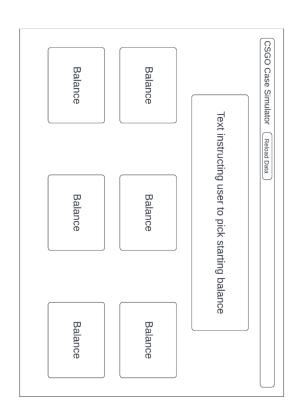
Oscar Reinitz

Storyboard



Screen Designs

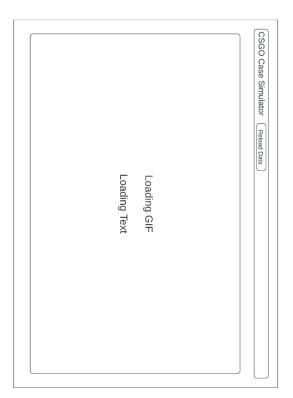


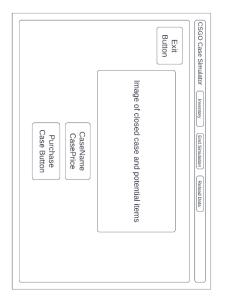


CSGO Case Simulator Inventory End Simulation Reload Data

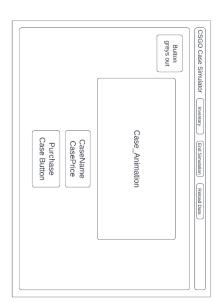
Loading GIF

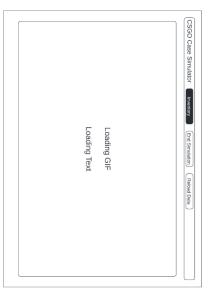
Loading Text

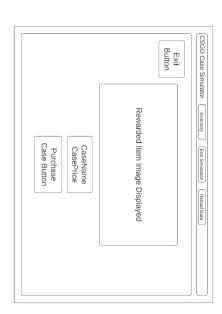


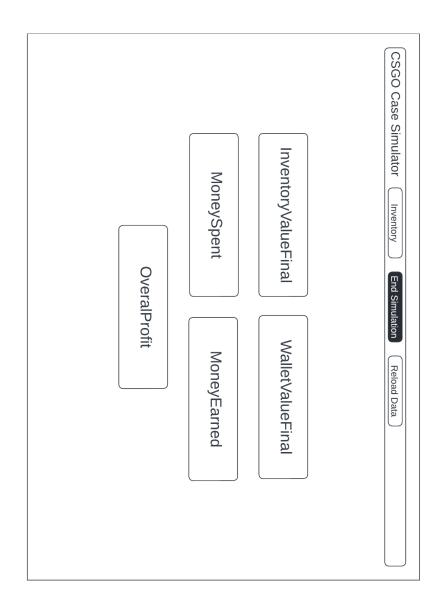












Data Dictionary

Attribute Name	Data Format	Scope	Description
imgHashdata	Object	Global	JSON file retrieved from
			CSGO:Backpack that is converted into
			an object within the JS code. Contains
			the image hashes for every item in
			Counter Strike Global Offensive
itemData	Object	Global	JSON file retrieved from a sorted
			mirror of the CSGO:Backpack object.
			Is updated regularly by a GitHub bot,
			contains the price data and
			probability odds for each case and
			their items variants.
siteActive	Boolean	Global	Stored in local storage. Records if the
			simulation has begun or not.
inventoryData	Object Array	Global	Stored in local storage. Holds the data
•	, ,		of items won from opened cases.
homeDiv	HTML Element	Global	Allows manipulation of homepage Div
mainDiv	HTML Element	Global	Allows manipulation of main case
			screen Div
simBarDiv	HTML Element	Global	Allows manipulation of header bar
52 4 2		0.000.	Div
loadingDiv	HTML Element	Global	Allows manipulation of the loading
Todding Div	THINE Element	Giobai	screen Div
inventoryDiv	HTML Element	Global	Allows manipulation of inventory Div
inventoryValue	Integer	Global	Stored in local storage. Holds current
		0.000.	value of inventory.
totalSpend	Integer	Global	Stored in local storage. Holds how
- CO CO. CO P C		0.000.	much money has been spent
totalSold	Integer	Global	Stored in local storage. Holds how
cotalooid	teger	0.000.	much money has been made from
			sales.
totalProfit	Integer	Global	Calculated when simulation is
		0.000.	finished, combines the value of sold
			item, the value of current inventory
			and how much money was spent to
			calculate the overall profit of the
			simulation
startValue	Integer	Global	Holds the initial starting value once
Startvarac	integer	Global	selected by user.
myBalance	Integer	Global	Stored in local storage. Holds user's
Hybalance	integer	Global	current balance.
lenCase	Integer	Local	Length of the nameArray used within
IEIICase	IIILEGEI	Local	the populateCases function
namoArray	Object Array	Local	
nameArray	Object Array	Local	Object array created from a select
imallach	Ctring	Lasal	part of the itemData object
imgHash	String	Local	URL string that is created using the
			current case image hash data.

IPO Charts

Case Search

Input	Process	Output
Name of Desired case	 Binary search of an array containing the case names. Hide DIVs of cases which names do not match the desired case name. 	Case matching the input name is shown to the user

Case Roll

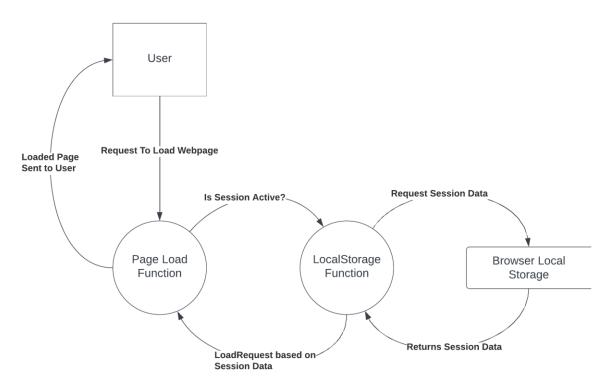
Input	Process	Output
User BalanceCase Data	 Deduct case price from user balance Retrieve case odds from case data Retrieve item list Randomise an item based upon case odds Store won item in local storage 	Display won item to user

Case Page Loading

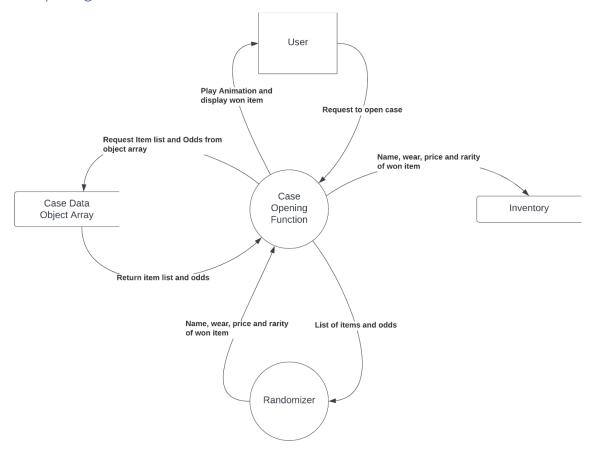
Input	Process	Output
 Image Hash Data Case Data 	 Toggle loading screen div while populating Determine number of cases from data Read name of case from data and populate HTML element Read image hash from data and populate HTML IMG source Read price data of case from data and populate HTML element 	 Loading screen shown while cases populate the website Once loaded, a grid of each case, their price and image is shown to user.

Data Flow Diagram

Page Loading

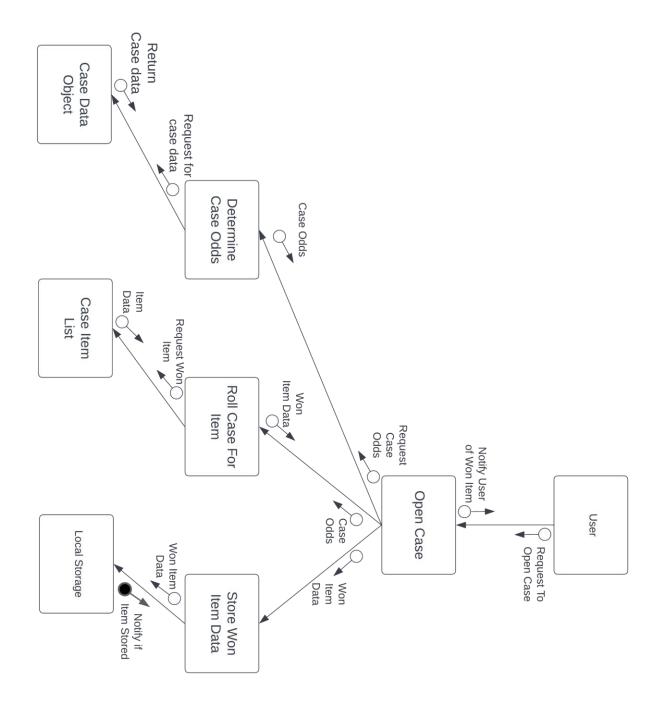


Case Opening



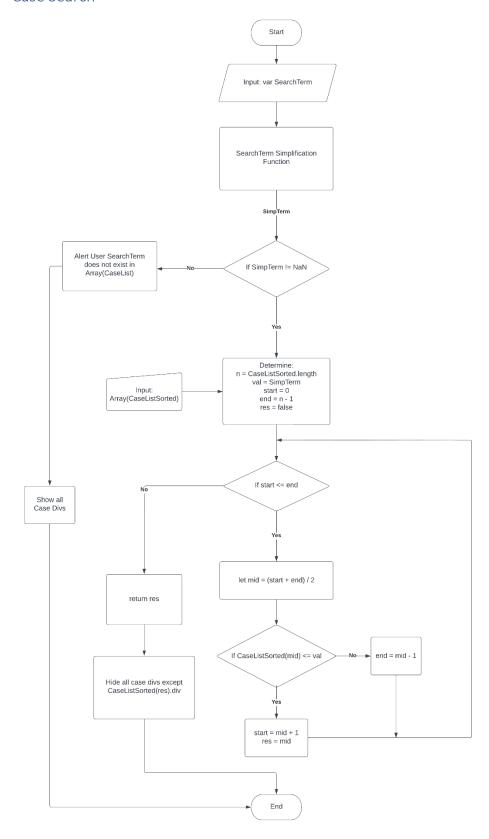
Structure Diagram

Case Opening



System Flowcharts

Case Search



Case Opening

