First Draft of Abstract Use Cases. Expand into Business and System Use Cases.

{Fractal Engine Canvas}

Author (s): Brandon Nadeau Date: 3/4/2022

Version: 0.0.1

USE CASE NAME:	Fractal Engine (Simple)	USE CASE TYPE
USE CASE ID:	FE_001	Abstract: þ
PRIORITY:	Highest	Extension: o
INVOKED BY:	User, General requirement	
PARTICIPATING ACTORS:	User	
DESCRIPTION:	The user should be able to generate different fractal types with as little effort as possible.	
PRE-CONDITION:		
TYPICAL COURSE	Step 1: The user selects the simple setup.	
OF EVENTS:		
	Step 2: The user selects the type of fractal to generate	
	Step 3: The user clicks the "Generate Button"	
	Step 4: The system takes this information and generates a random fractal	
	of users selected type.	
ALTERNATE COURSES:		
POST-CONDITION:	The system should render a fractal image on	the webpage's canvas element.

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USE CASE NAME:	Fractal Engine Download	USE CASE TYPE
USE CASE ID:	FE_002	Abstract: þ
PRIORITY:	Highest	Extension: o
INVOKED BY:	User, General requirement	
PARTICIPATING ACTORS:	User	
DESCRIPTION:	The user should be able to save their generated fractal as an image.	
PRE-CONDITION:	The canvas has a generated fractal image being displayed.	
TYPICAL COURSE	Step 1: The user selects clicks the "Download" button.	
OF EVENTS:		
	Step 2: The user specifies what type of image file the canvas should be saved as.	
	Step 3: The system compiles the generated fractal as an image and sends it to the user.	
ALTERNATE COURSES:		
POST-CONDITION:	The system should send the image to the user if they want to open or save it (depending on	* *

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USE CASE NAME:	Fractal Engine Save	USE CASE TYPE
USE CASE ID:	FE_003	Abstract: þ
PRIORITY:	Highest	Extension: o
INVOKED BY:	User, General requirement	
PARTICIPATING ACTORS:	User	
DESCRIPTION:	The user should be able to save their generated fractal as an image so that they can open and modify it later. This should happen in the user's "Creations" page	
PRE-CONDITION:	User is logged in. The canvas should have generated a fractal image or should have settings that have been modified in the more advanced fractal engine.	
TYPICAL COURSE OF EVENTS:	Step 1: The user selects clicks the "Save" but	cton.
	Step 2: The user specifies the name under which the generator will be stored, and presses save.	
	Step 3: The system makes a copy of the current generator's parameters and components and saves them on the server.	
ALTERNATE COURSES:		
POST-CONDITION:	When the user navigates to their creations p generator and being to modify the generator	