View COVID Data

Description:

Users:

A	user may be	interested in	keeping up to	date with the	statistics of CC	VID-19. Thus	s, they ma	зy
be	interested in	viewing the	most recent d	ata on COVID.	. Information s	uch as total ir	ifected ar	ıc
de	ceased will be	e displayed fo	or such users i	nterested.				

User	
Basic	Flow:
	<user covid="" data="" views=""></user>
2.	System displays the home page User clicks view COVID data button System navigates to the COVID data page and displays information
Pre-Co	onditions:
None	
Post-C	Conditions:
None	
Includ	es:
<retrie< td=""><td>eve Data></td></retrie<>	eve Data>
Extend	ds:
None	

Retrieve COVID Data

Description:

A	user	requests	data	and	thus,	the	system	must	retrieve	the	data.	This	retrieval	is	done	by
SC	rapin	g a web pa	age fo	or the	relev	ant i	nformati	on.								

scraping a web page for the relevant information.							
Users:							
User							
Basic Flow:							
<user covid="" data="" views=""></user>							
 System scrapes web page System updates and displays information 							
Pre-Conditions:							
<view covid="" data=""></view>							
Post-Conditions:							
None							
Includes:							
None							
Extends:							
None							

Run Pre-Built Sim

Description:

None

A user wants to run a pre-built simulation of a pandemic. These simulations will not require user input, but rather are based on pre-defined inputs. The most important of these simulations is the simulation of COVID-19.

simulation of COVID-19.										
Users:										
User										
Basic Flow:										
<user pre-built="" runs="" simulation=""></user>										
 System displays the home page User clicks run pre-built simulations button System navigates to the pre-built simulations page User clicks one of the available options System runs the simulation and displays 										
Pre-Conditions:										
None										
Post-Conditions:										
None										
Includes:										
None										
Extends:										

View bar graphs

Description:

The information from a simulation may not be everything a user wants or it may not be clear enough. Therefore, a user may request to view more simple bar graphs that are time incremented that display the information in a more pleasing way.

Users:								
User								
Basic Flow:								
<user bar="" graphs="" views=""></user>								
 System displays the output of a simulation User clicks view graphs button System displays the graphs 								
Pre-Conditions:								
None								
Post-Conditions:								
None								
Includes:								
None								
Extends:								
<run pre-built="" sim=""> <run input="" sim=""></run></run>								

Email Results

Description:

After a simulation is finished a user may desire to see the results again at some time. If they wish to see them, the user may request to have the results emailed to them.

Users:										
User										
Basic Flow:										
<user emailed="" get="" requests="" results="" to=""></user>										
 System displays the output of a simulation User clicks email results button System asks for the user's email User inputs their email System sends the email to their inbox 										
Pre-Conditions:										
None										
Post-Conditions:										
None										
Includes:										
None										
Extends:										
<run pre-built="" sim=""> <run input="" sim=""></run></run>										

Run Input Sim

Description:

Users may also wish to run simulations based upon their inputs. In this case, the system shall

run simulations and use these inputs.
Users:
User
Basic Flow:
<user input="" runs="" simulation=""></user>
 System displays the home screen User clicks run input simulation button System navigates to input simulation page and asks for inputs User types in their inputs System runs simulation based upon their inputs and displays
Pre-Conditions:
None
Post-Conditions:
None
Includes:
None
Extends:
None

Display Input Error

Description:

In the case a user incorrectly types their inputs when running an input simulation, the system will need to remedy this situation. Before running, corrected inputs must be inserted. Errors could occur due to a field being empty or numbers being negative or otherwise erroneous.

Users.	:
User	
Basic	Flow:
	<system displays="" error="" input=""></system>
	System displays an error message and asks for corrected inputs User inputs corrected inputs System runs simulation properly
Altern	ate Flow:
	<user again="" incorrectly="" inputs=""></user>
1.	Start from step one of Basic Flow and repeat until input is correct
Pre-Co	onditions:
None	
Post-C	Conditions:
None	
Includ	des:
<run i<="" td=""><td>nput Sim> <run sim="" visual=""></run></td></run>	nput Sim> <run sim="" visual=""></run>
Extend	ds:
None	

Run Visual Sim

Description:

Extends:

None

Α	user	may	request	to	see	an	accurate	visual	simulation	based	upon	their	inputs.	This
sir	nulatio	on is r	nuch less	ser	in sco	ope,	however,	still imp	oortant and	accurate	e.			

simulation is much lesser in scope, however, still important and accurate.												
Users:												
User												
Basic Flow:												
<user a="" runs="" simulation="" visual=""></user>												
 System displays the home screen User clicks run visual simulation button System navigates to visual simulation page and asks for input User inserts inputs System runs visual simulation and displays 												
Pre-Conditions:												
None												
Post-Conditions:												
None												
Includes:												
None												