Window

CovidWindow

- window:Window
- covidReader:CovidReader
- quit:Button
- sortByAlpha:Button
- sortByCFR:Button
- representDC:Button
- representGA:Button
- representMD:Button
- representNC:Button
- representTN:Button
- representVA:Button

+ CovidWindow(CovidReader)
+ clickedQuit(Button):void
+ clickedSortByAlpha(Button):void
+ clickedsortByCFR(Button):void
+ clickedrepresentDC(Button):void
+ clickedrepresentGA(Button):void
+ clickedrepresentMD(Button):void
+ clickedrepresentNC(Button):void
+ clickedrepresentTN(Button):void
+ clickedrepresentVA(Button):void

ProjectRunner

+ ProjectRunner()
+s main(String[]):void

Node<T>

- data T
- next: Node<T>
- previous: Node<T>

+ data(): T
+ next(): T
+setNext(): void

LinkedList

- Head: Node<T>
-Tail: Node<T>
-Size: int

+clear(): void
+isEmpty(): Boolean
+size(): int
+get(index): T
-getDataAtIndex(index): T
+add(data): void
+ toString(): String
+ equals(Object): Boolean
+ iterator(): Iterator<E>

DLLIterator
(implements Iterator<E>)

- next: Node<T>
- calledNext: boolean

+ DLLIterator()
+ hasNext(): boolean
+ next(): E
+ remove(): void

CovidReader

- states: State[]

- readFile(String):State[]

State

- name: String
- races: LinkedList<Race>

+ getStateName(): String
+ sortRacesCFR(): LinkedList<Race>
+ sortRacesAlpha(): LinkedList<Race>
+ getRaces(): LinkedList<Race>
+ toString(): String
+ equals(Object): Boolean

Race

- cases: int
-name: String
- death: int

+ getCases(): int
+ getDeaths(): int
+ getName(): String
+equals(Object): Boolean

This UML Design showcases our attempt at creating a Information Visual in relations to tracking Covid. The Diagram starts with our CovidWindow class. The main function of such is to display the given information that's been sorted and displayed. Utilizing Double LinkedLists we will be able to sort the given Covid data provided by our Instructor. Upon creating the LinkedList there will be an internal Node and Iterator Class, as seen in the UML which will assist at sorting such data. We have utilized such approaches before in previous labs, thus it only makes sense to sort the data given a LinkedList. All of these function together in order to present the data in the CovidWindow class above.