Summary of Design
Neighborhood Map Project

Leon Tabak

08 January 2016

Styles

css/neighborhood.css

- element selectors
  - body
  - html
  - label
- id selectors
  - #bigMap
  - #listAndMap
  - #listOfBirthplaces
  - #origins
  - #searchBox
  - #toggle
- descendant selectors
  - .container-fluid h2
  - #listOfBirthplaces h2

JavaScript Code

js/neighborhood.js

- definition of model()
  - contains definition of makePerson(firstName, middleName, lastName)

    - contains definition of makePlace(latitude, longitude, firstName, middleName, lastName, city, state, birthdate)

- definition of viewModel(m)
    - contains definition of compareDates(a, b)
    - contains definition of dateToString(date)
    - contains definition of getNumberOfPlaces()
    - contains definition of getPlace(index)
    - contains definition of getExtremaAndMeans()
- definition of decoratorHelper(vm)
    - contains definition of getSchoolsAttended(firstName, lastName, informationWindow)
        - contains definition of parse(dataStructure)
    - contains definition of makeInformationWindow(place)
    - contains definition of getNumberOfInformationWindows()
    - contains definition of getInformationWindow(index)
    - contains definition of getNumberOfMarkers()
    - contains definition of getMarker(index)
    - contains definition of getNeighborhoodMap()
    - contains definition of addClickListener(i)
        - contains definition of fun()
- definition of go()
    - contains definition of anonymous function
- definition of decorateMap()
    - contains definition of toggleMarker
        - contains definition of result()
    - contains definition of toggleMarkerAndWindow(index)
        - contains definition of result()
    - contains definition of myKnockoutHelper()
        - contains definition of filter()
- definition of myInitializer

Objects

GLOBAL
+neighborhoodMap: GoogleMap
+ourViewModel: viewModel
+myInitializer(): void
+go(): void
+tc(): toggleControls()
+decorateMap(): void
+decoratorHelper(vm): objects’ public functions
+viewModel(m): object’s public functions
+model(): Place[ ]

Person
+firstName: String
+middleName: String
+lastName: String

Place
+latitude: float
+longitude: float
+person: Person
+city: String
+state: String
+birthday: Date

ExtremaAndMeans
+meanLatitude: float
+meanLongitude: float
+minimumLatitude: float
+maximumLatitude: float
+minimumLongitude: float
+maximumLongitude: float

model()
-makePerson(firstName: String, middleName: String, lastName: String): Person
-makePlace(latitude: float, longitude: float, firstName: String, middleName: String, lastName: String, birthday: Date)
+places: Place[ ]

viewModel(m: model)
+compareDates(a: Date, b: Date): int
+dateToString(date: Date): String
+getNumberOfPlaces(): int
+getPlace(index: int): Place
+getExtremaAndMeans(): ExtremaAndMeans

decoratorHelper(vm : viewModel)
-loYear: int
-hiYear: int
-getSchoolsAttended(firstName: String, lastName: String, informationWindow: InformationWindow)
-parse(dataStructure)
-makeInformationWindow(place: Place)
-addClickListener(i: int)
+getNumberOfInformationWindows(): int
+getInformationWindow(index: int): InformationWindow
+getNumberOfMarkers(): int
+geMarker(index: int): Marker
+getNeighborhoodMap: GoogleMap

decorateMap()
-toggleMarker(index: int): result()
-toggleMarkerAndWindow(index: int): result()
-myKnockoutHelper(): object's public functions