

Summary of Design

Neighborhood Map Project

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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, informationWin- dow: InformationWindow) -parsed(dataStructure) -makeInformationWindow(place: Place) -addClickListener(i: int) +getNumberOfInformationWindows(): int +getInformationWindow(index: int): InformationWindow +getNumberOfMarkers(): int +getMarker(index: int): Marker +getNeighborhoodMap: GoogleMap
decorateMap()
-toggleMarker(index: int): result() -toggleMarkerAndWindow(index: int): result() -myKnockoutHelper(): object's public functions