Design for Idea 3: Graphical Representation of User Demographics and Projects viewed


```
Page loads
   │
   ▼
Data retrieved
retrieveData()
   │
   ▼
User selects which
data to display
userControls()  ──────────────►  ┌─ Data Selection ──────────────────┐
   │                             │        ◇ Data selected            │
   │                             │        ╱          ╲                │
   │                             │       ▼            ▼               │
   │                             │ Demographic Specific  Project Specific Data │
   │                             │  Data Selected          Selected    │
   │                             └───────────────│────────────────────┘
   │                                             ▼
   │                                      Data processed
   │                                      processData()
   │                                             │
   │                                             ▼
   │                             ┌────────►Display data on graph
   │                             │          dsiplayData()
   ▼
End
(Page Closed)
```
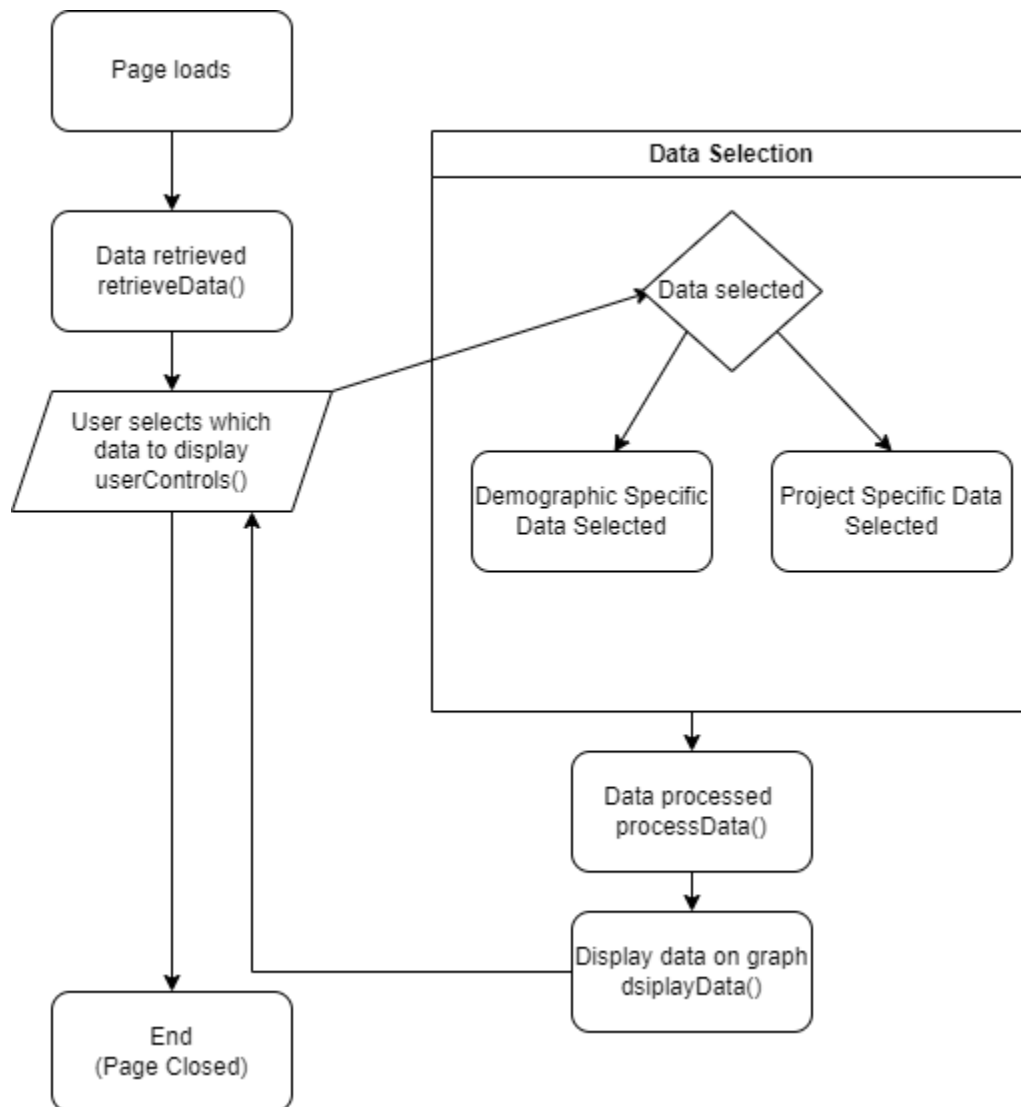
Classes:
Graph: Displays data and provides user functionality to switch between views

Class Graph:

Variables:

Variable name	Type	Scope	Description
currentView	integer	Private to class: Graph	Represents the currently selected data to view.

countryData	2D array	Public	Country specific data
ageData	2D array	Public	Age specific data
projectData	2D array	Public	Project specific data

Functions:

Function	Scope	Description
retrieveData()	Public	Retrieves data from data source or local storage
userControls()	Public	Controls which data is viewed on the graph
displayData()	Public	Generates graph on screen based on data selected
processData()	Public	Prepares data for graphing (if applicable)
drawChart (xVal [], yVal[], barColor[], text)	Public	Uses passed parameters to draw a bar chart