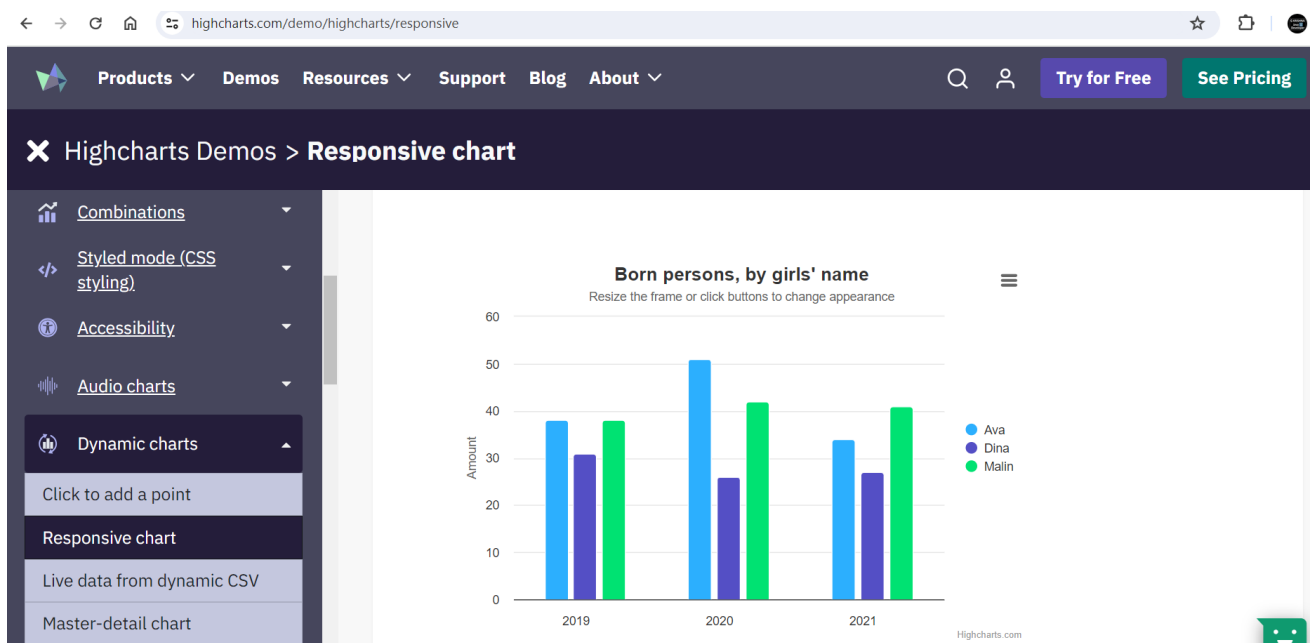


# High Charts Integration with Java Application

This is official website of High Charts library:



## What is High-charts?

High-charts is a JavaScript library that enables developers to create interactive and visually appealing charts for web applications. It supports a wide range of chart types like line, bar, pie, and more.

## Why use High-charts?

High-charts is popular due to its ease of use, extensive customization options, and responsive design features. It allows developers to quickly integrate dynamic charts into web applications with minimal effort.

## Key features of High-charts:

Rich set of chart types (e.g., line, area, column, pie). Highly customizable with numerous configuration options. Supports dynamic data updates and interactive features like tooltips and zooming. Compatible with modern web technologies and frameworks like jQuery and AngularJS.

## High Charts Integration with Java Application

I have taken simple controller along with couple of end points,  
And auto-wired the service layer, there returning the dummy map.

```
@Controller
public class GraphController {

    @Autowired
    private GraphService graphService;

    @GetMapping("/bar-chart")
    @ResponseStatus(HttpStatus.OK)
    public String barGraph(Model model) {
        Map<String, Integer> surveyMap = graphService.getGraphDetails();
        model.addAttribute("surveyMap", surveyMap);
        return "barGraph";
    }

    @GetMapping("/pie-chart")
    public String pieChart(Model model) {
        model.addAttribute("pass", 50);
        model.addAttribute("fail", 50);
        return "pieChart";
    }
}
```

```
@Service
public class GraphService {

    public Map<String, Integer> getGraphDetails() {
        Map<String, Integer> surveyMap = new LinkedHashMap<>();
        surveyMap.put("Java", 40);
        surveyMap.put("DevOps", 25);
        surveyMap.put("Python", 20);
        surveyMap.put(".Net", 15);
        return surveyMap;
    }
}
```

# High Charts Integration with Java Application

Landing page is home.html and respective endpoint html page you can find:

Home.html

```
<body>
  <div class="container">
    <h1>Welcome Understanding of High Charts Graphs!</h1>
    <div class="link-container">
      <a th:href="@{/bar-chart}">Explore Bar Chart</a>
      <a th:href="@{/pie-chart}">Discover Pie Chart</a>
    </div>
  </div>
</body>
</html>
```

Graph.html

```
D: > sts > HighChartPOC > src > main > resources > templates > <> barGraph.html > ...
 2 <html xmlns:th="http://www.thymeleaf.org">
12 <body>
24 <script th:inline="javascript">
25   $(function() {
39   },
40   title: {
41     text: 'Technology Popularity In India'
42   },
43   subtitle: {
44     text: 'All details are not true; it\'s a dummy map'
45   },
46   xAxis: {
47     categories: categories,
48     crosshair: true
49   },
50   yAxis: {
51     min: 0,
52     max: 100,
53     title: {
54       text: 'Technology Rating (in %)'
```

pieChart.html

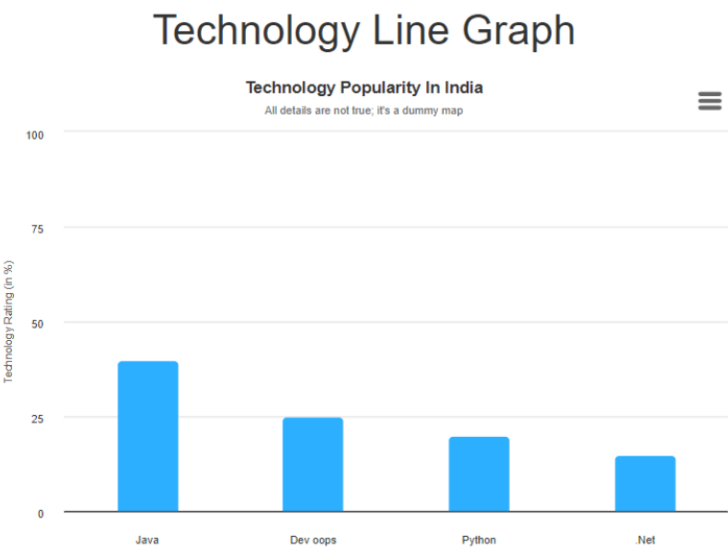
```
<> home.html <> barGraph.html <> pieChart.html X
D: > sts > HighChartPOC > src > main > resources > templates > <> pieChart.html > ...
 2 <html xmlns:th="http://www.thymeleaf.org">
16 <body>
19   <script th:inline="javascript">
26     chart: {
28       options3d: {
30         alpha: 50,
31         beta: 0,
32         depth: 35 // Set depth here instead of in plotOptions
33       }
34     },
35     title: {
36       text: 'Result Status'
37     },
38     tooltip: {
39       pointFormat: '{series.name}: <b>{point.percentage:.1f}%</b>'
40     },
41     plotOptions: {
42       pie: {
43         allowPointSelect: true,
```

# High Charts Integration with Java Application

Complete POC code, you can find on :  
<https://github.com/gkrrish/HighChartPOC/tree/master>

sample images :

localhost:9191/bar-chart



localhost:9191/pie-chart

