

CNG 457 SPECIAL TOPICS IN COMPUTER ENGINEERING: SOFTWARE CONSTRUCTION PHASE -3

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1. Get all phones along with their details.

HTTP Request Type	Get
URL	/getPhones
Body	
Response	

```
{
  "productID": 1,
  "screenSize": 6.7,
  "price": 1099.0,
  "model": "iPhone 12 Pro Max",
  "brand": {
    "brandID": 1,
    "brandName": "Apple"
  "commentAndRatingList": [
       "commentAndRatingID": 5,
       "rating": 5,
       "customerComment": "It was cool",
       "product": 1
    },
       "commentAndRatingID": 6,
       "rating": 1,
       "customerComment": "Very expensive.",
       "product": 1
    },
       "commentAndRatingID": 7,
       "rating": 3,
```

```
"customerComment": "It is good but expensive",
     "product": 1
  }
],
"additionalFeatureList": [
     "additionalFeatureID": 1,
     "additionalFeature": "Long battery life",
     "productList": [
          "productID": 5,
         "screenSize": 5.5,
          "price": 249.99,
          "model": "Galaxy S3",
          "brand": {
            "brandID": 3,
            "brandName": "Samsung"
          "commentAndRatingList": [
              "commentAndRatingID": 10,
              "rating": 5,
              "customerComment": "Cheap and fast",
              "product": 5
          "additionalFeatureList": [
            1,
              "additionalFeatureID": 2,
              "additionalFeature": "Fingerprint",
              "productList": [
                 5
```

```
],
            "internalMemory": "64 GB"
         },
  "internalMemory": "128 GB"
},
  "productID": 2,
  "screenSize": 6.5,
  "price": 1099.0,
  "model": "iPhone XS Max",
  "brand": 1,
  "commentAndRatingList": [
       "commentAndRatingID": 8,
       "rating": 2,
       "customerComment": "Meh",
       "product": 2
    },
       "commentAndRatingID": 9,
       "rating": 4,
       "customerComment": "Nice",
       "product": 2
  ],
  "additionalFeatureList": [],
  "internalMemory": "256 GB"
},
  "productID": 3,
  "screenSize": 6.2,
```

```
"price": 1249.99,
     "model": "Galaxy S21",
     "brand": 3,
     "commentAndRatingList": [],
     "additionalFeatureList": [],
     "internalMemory": "128 GB"
  },
     "productID": 4,
     "screenSize": 5.0,
     "price": 199.99,
     "model": "iPhone 5",
     "brand": 1,
     "commentAndRatingList": [],
     "additionalFeatureList": [],
     "internalMemory": "32 GB"
  },
  5,
     "productID": 6,
     "screenSize": 6.0,
     "price": 449.99,
     "model": "Galaxy S4",
     "brand": 3,
     "commentAndRatingList": [],
     "additionalFeatureList": [],
     "internalMemory": "128 GB"
]
```

2. Get all computers along with their details

HTTP Request Type	Get
URL	/getComputers
Body	

Response

```
"productID": 7,
"screenSize": 17.3,
"price": 999.99,
"model": "GL 702VMK",
"brand": {
  "brandID": 2,
  "brandName": "Asus"
},
"commentAndRatingList": [
    "commentAndRatingID": 1,
    "rating": 5,
    "customerComment": "Very nice computer.",
    "product": 7
  },
    "commentAndRatingID": 2,
    "rating": 3,
    "customerComment": "It was getting hot.",
    "product": 7
  },
    "commentAndRatingID": 3,
    "rating": 4,
    "customerComment": "Moderate.",
    "product": 7
    "commentAndRatingID": 4,
    "rating": 2,
    "customerComment": "Bad.",
    "product": 7
  }
],
"additionalFeatureList": [
    "additionalFeatureID": 3,
    "additionalFeature": "Face recognition",
    "productList": [
       7
],
"screenResolution": "1920x1080",
"storageCapacity": "1 TB",
"computerMemory": "16 GB",
"processor": {
  "processorID": 1,
  "modelName": "Intel i7 7700 HQ",
  "clockFrequency": 2.7
```

3. Get a specific computer with its identifier

HTTP Request Type	Get
URL	/getComputer/{productID}
Body	
Response	

```
{
  "productID": 7,
  "screenSize": 17.3,
  "price": 999.99,
  "model": "GL 702VMK",
  "brand": {
    "brandID": 2,
    "brandName": "Asus"
  },
  "commentAndRatingList": [
       "commentAndRatingID": 1,
      "rating": 5,
       "customerComment": "Very nice computer.",
      "product": 7
    },
       "commentAndRatingID": 2,
      "rating": 3,
       "customerComment": "It was getting hot.",
       "product": 7
    },
       "commentAndRatingID": 3,
       "rating": 4,
```

```
"customerComment": "Moderate.",
     "product": 7
  },
     "commentAndRatingID": 4,
     "rating": 2,
     "customerComment": "Bad.",
     "product": 7
  }
],
"additionalFeatureList": [
     "additionalFeatureID": 3,
     "additionalFeature": "Face recognition",
     "productList": [
       7
    ]
  }
],
"screenResolution": "1920x1080",
"storageCapacity": "1 TB",
"computerMemory": "16 GB",
"processor": {
  "processorID": 1,
  "modelName": "Intel i7 7700 HQ",
  "clockFrequency": 2.7
}
```

4. Get a specific phone with its identifier

HTTP Request Type	Get
URL	/getPhone/{productID}
Body	

Response

Response:

}

```
"productID": 5,
"screenSize": 5.5,
"price": 249.99,
"model": "Galaxy S3",
"brand": {
  "brandID": 3,
  "brandName": "Samsung"
},
"commentAndRatingList": [
  {
     "commentAndRatingID": 10,
     "rating": 5,
     "customerComment": "Cheap and fast",
     "product": 5
  }
],
"additionalFeatureList": [
     "additionalFeatureID": 1,
     "additionalFeature": "Long battery life"
  },
  {
     "additionalFeatureID": 2,
     "additionalFeature": "Fingerprint"
  }
],
"internalMemory": "64 GB"
```

5. Get all phones from a particular brand along with their details.

HTTP Request Type	Get
URL	/getPhones/{brandName}
Body	
Response	

Response: When we send Apple as a brand name, the following response is given to us.

```
[
     "productID": 1,
     "screenSize": 6.7,
     "price": 1099.0,
     "model": "iPhone 12 Pro Max",
     "brand": {
       "brandID": 1,
       "brandName": "Apple"
     },
     "commentAndRatingList": [
       {
         "commentAndRatingID": 5,
         "rating": 5,
         "customerComment": "It was cool",
         "product": 1
       },
       {
          "commentAndRatingID": 6,
         "rating": 1,
         "customerComment": "Very expensive.",
         "product": 1
       },
```

```
"commentAndRatingID": 7,
       "rating": 3,
       "customerComment": "It is good but expensive",
       "product": 1
    }
  ],
  "additional Feature List" : [ \\
       "additionalFeatureID": 1,
       "additionalFeature": "Long battery life"
    }
  ],
  "internalMemory": "128 GB"
},
  "productID": 2,
  "screenSize": 6.5,
  "price": 1099.0,
  "model": "iPhone XS Max",
  "brand": 1,
  "commentAndRatingList": [
    {
       "commentAndRatingID": 8,
       "rating": 2,
       "customerComment": "Meh",
       "product": 2
    },
       "commentAndRatingID": 9,
       "rating": 4,
       "customerComment": "Nice",
       "product": 2
    }
  ],
```

```
"additionalFeatureList": [],

"internalMemory": "256 GB"

},

{

"productID": 4,

"screenSize": 5.0,

"price": 199.99,

"model": "iPhone 5",

"brand": 1,

"commentAndRatingList": [],

"additionalFeatureList": [],

"internalMemory": "32 GB"

}
```

6. Get all computers from a particular brand along with their details.

HTTP Request Type	Get
URL	/getComputers/{brandName}
Body	
Response	

Response: When we send Asus as a brand name, the following response is given to us.

```
"commentAndRatingList": [
  {
     "commentAndRatingID": 1,
     "rating": 5,
     "customerComment": "Very nice computer.",
     "product": 7
  },
  {
     "commentAndRatingID": 2,
     "rating": 3,
     "customerComment": "It was getting hot.",
     "product": 7
  },
  {
     "commentAndRatingID": 3,
     "rating": 4,
     "customerComment": "Moderate.",
     "product": 7
  },
  {
     "commentAndRatingID": 4,
     "rating": 2,
     "customerComment": "Bad.",
     "product": 7
  }
],
"additionalFeatureList": [
  {
     "additionalFeatureID": 3,
     "additionalFeature": "Face recognition"
  }
],
"screenResolution": "1920x1080",
"storageCapacity": "1 TB",
```

```
"computerMemory": "16 GB",
  "processor": {
    "processorID": 1,
    "modelName": "Intel i7 7700 HQ",
    "clockFrequency": 2.7
  }
},
  "productID": 14,
  "screenSize": 17.3,
  "price": 1999.99,
  "model": "GL 702VMK",
  "brand": 2,
  "commentAndRatingList": [],
  "additionalFeatureList": [],
  "screenResolution": "1920x1080",
  "storageCapacity": "1 TB",
  "computerMemory": "32 GB",
  "processor": 1
},
  "productID": 16,
  "screenSize": 17.3,
  "price": 1999.99,
  "model": "GL 702VMK",
  "brand": 2,
  "commentAndRatingList": [],
  "additional Feature List": [],\\
  "screenResolution": "1920x1080",
  "storageCapacity": "1 TB",
  "computerMemory": "32 GB",
  "processor": 1
},
```

```
"productID": 17,

"screenSize": 17.3,

"price": 1999.99,

"model": "GL 702VMK",

"brand": 2,

"commentAndRatingList": [],

"additionalFeatureList": [],

"screenResolution": "1920x1080",

"storageCapacity": "1 TB",

"computerMemory": "32 GB",

"processor": 1

}
```

7. Get all computers based on the search criteria.

• Get all computers between min and max price.

HTTP	Get
Request	
Type	
URL	/getComputerForSearch/{priceMin}/{priceMax}
Body	
Response	

Response: When we send min price as 500 and maxpriceas 1500, getComputerForSearch?priceMin=500&priceMax=1500 as a URL, we get the following response,

```
"productID": 7,

"screenSize": 17.3,

"price": 999.99,

"model": "GL 702VMK",

"brand": {

"brandID": 2,
```

```
"brandName": "Asus"
},
"commentAndRatingList": [
  {
     "commentAndRatingID": 1,
     "rating": 5,
     "customerComment": "Very nice computer.",
     "product": 7
  },
  {
     "commentAndRatingID": 2,
     "rating": 3,
     "customerComment": "It was getting hot.",
     "product": 7
  },
     "commentAndRatingID": 3,
     "rating": 4,
     "customerComment": "Moderate.",
     "product": 7
  },
  {
     "commentAndRatingID": 4,
     "rating": 2,
     "customerComment": "Bad.",
     "product": 7
  }
],
"additionalFeatureList": [
  {
     "additionalFeatureID": 3,
     "additionalFeature": "Face recognition"
  }
],
```

```
"screenResolution": "1920x1080",

"storageCapacity": "1 TB",

"computerMemory": "16 GB",

"processor": {

    "processorID": 1,

    "modelName": "Intel i7 7700 HQ",

    "clockFrequency": 2.7

}

}
```

• Get all computers giving just max price,

HTTP	Get
Request	
Type	
URL	/getComputerForSearch/{price}
Body	
Response	

Response: When we send price as 1500, it gets all the computers that are lower than the price

```
{
  "productID": 7,
  "screenSize": 17.3,
  "price": 999.99,
  "model": "GL 702VMK",
  "brand": {
      "brandID": 2,
      "brandName": "Asus"
  },
  "commentAndRatingList": [
      {
            "commentAndRatingID": 1,
            "rating": 5,
```

[

```
"customerComment": "Very nice computer.",
    "product": 7
  },
    "commentAndRatingID": 2,
    "rating": 3,
    "customerComment": "It was getting hot.",
    "product": 7
  {
    "commentAndRatingID": 3,
    "rating": 4,
    "customerComment": "Moderate.",
    "product": 7
  },
    "commentAndRatingID": 4,
    "rating": 2,
    "customerComment": "Bad.",
    "product": 7
  }
"additionalFeatureList": [
    "additionalFeatureID": 3,
    "additionalFeature": "Face recognition"
  }
"screenResolution": "1920x1080",
"storageCapacity": "1 TB",
"computerMemory": "16 GB",
"processor": {
  "processorID": 1,
  "modelName": "Intel i7 7700 HQ",
```

],

],

```
"clockFrequency": 2.7
}
}
```

• Get all computers with price is lower than 1500 and screen size is 17.3.

• HTTP	Get
Request	
Type	
URL	/getComputerForSearch/{price}/{screenSize}
Body	
Response	

Response: When we send

[

/getComputerForSearch?price=1500&screenSize=17.3 as URL, we get the following response.

```
"productID": 7,
  "screenSize": 17.3,
  "price": 999.99,
  "model": "GL 702VMK",
  "brand": {
      "brandID": 2,
      "brandName": "Asus"
    },
  "commentAndRatingList": [
      {
          "commentAndRatingID": 1,
          "rating": 5,
          "customerComment": "Very nice computer.",
          "product": 7
     },
}
```

```
"commentAndRatingID": 2,
       "rating": 3,
       "customerComment": "It was getting hot.",
       "product": 7
    },
       "commentAndRatingID": 3,
       "rating": 4,
       "customerComment": "Moderate.",
       "product": 7
    },
    {
       "commentAndRatingID": 4,
       "rating": 2,
       "customerComment": "Bad.",
       "product": 7
 ],
  "additionalFeatureList": [
       "additionalFeatureID": 3,
       "additionalFeature": "Face recognition"
    }
 ],
  "screenResolution": "1920x1080",
  "storageCapacity": "1 TB",
  "computerMemory": "16 GB",
  "processor": {
    "processorID": 1,
    "modelName": "Intel i7 7700 HQ",
    "clockFrequency": 2.7
  }
}
```

]

• When we add multiple path variables like brandName/model

•	HTTP	Get
	Request	
	Type	
URL		/getComputerForSearch/{brandName}/{model}
Body		
Response		

Response: When we send brandName as Asus and model as GL 702VMK, we get the following response,

```
[
  {
     "productID": 7,
     "screenSize": 17.3,
     "price": 999.99,
     "model": "GL 702VMK",
     "brand": {
       "brandID": 2,
       "brandName": "Asus"
     "commentAndRatingList": [
         "commentAndRatingID": 1,
         "rating": 5,
         "customerComment": "Very nice computer.",
         "product": 7
       },
         "commentAndRatingID": 2,
         "rating": 3,
         "customerComment": "It was getting hot.",
         "product": 7
       },
         "commentAndRatingID": 3,
```

```
"rating": 4,
       "customerComment": "Moderate.",
       "product": 7
    },
    {
       "commentAndRatingID": 4,
       "rating": 2,
       "customerComment": "Bad.",
       "product": 7
 ],
  "additionalFeatureList": [
       "additionalFeatureID": 3,
       "additionalFeature": "Face recognition"
    }
 ],
  "screenResolution": "1920x1080",
  "storageCapacity": "1 TB",
  "computerMemory": "16 GB",
  "processor": {
    "processorID": 1,
    "modelName": "Intel i7 7700 HQ",
    "clockFrequency": 2.7
  }
},
  "productID": 14,
  "screenSize": 17.3,
  "price": 1999.99,
  "model": "GL 702VMK",
  "brand": 2,
  "commentAndRatingList": [],
  "additionalFeatureList": [],
  "screenResolution": "1920x1080",
  "storageCapacity": "1 TB",
```

```
"computerMemory": "32 GB",
  "processor": 1
},
  "productID": 16,
  "screenSize": 17.3,
  "price": 1999.99,
  "model": "GL 702VMK",
  "brand": 2,
  "commentAndRatingList": [],
  "additionalFeatureList": [],
  "screenResolution": "1920x1080",
  "storageCapacity": "1 TB",
  "computerMemory": "32 GB",
  "processor": 1
},
  "productID": 17,
  "screenSize": 17.3,
  "price": 1999.99,
  "model": "GL 702VMK",
  "brand": 2,
  "commentAndRatingList": [],
  "additionalFeatureList": [],
  "screenResolution": "1920x1080",
  "storageCapacity": "1 TB",
  "computerMemory": "32 GB",
  "processor": 1
}
```

]

• If we add more multiple path variables, such as, getting all the computers which are higher average rating 3, has screen resolution 1920x1080 and computer memory between 16 GB and 30 GB.

HTTP	Get
Request	
Type	
URL	/getComputerForSearch?rating=3&screenResolution=1920x1080&computerMemoryMin=16 GB&computerMemoryMax=30 GB
Body	
Response	

```
[{
    "productID": 7,
     "screenSize": 17.3,
    "price": 999.99,
     "model": "GL 702VMK",
     "brand": {
       "brandID": 2,
       "brandName": "Asus"
     },
     "commentAndRatingList": [
         "commentAndRatingID": 1,
         "rating": 5,
         "customerComment": "Very nice computer.",
         "product": 7
       },
         "commentAndRatingID": 2,
         "rating": 3,
         "customerComment": "It was getting hot.",
         "product": 7
       },
         "commentAndRatingID": 3,
         "rating": 4,
         "customerComment": "Moderate.",
         "product": 7
```

```
},
     "commentAndRatingID": 4,
     "rating": 2,
     "customerComment": "Bad.",
     "product": 7
  }
],
"additionalFeatureList": [
     "additionalFeatureID": 3,
     "additionalFeature": "Face recognition"
  }
],
"screenResolution": "1920x1080",
"storageCapacity": "1 TB",
"computerMemory": "16 GB",
"processor": {
  "processorID": 1,
  "modelName": "Intel i7 7700 HQ",
  "clockFrequency": 2.7
}}]
```

• If we add another example of multiple path variables, such as storage capacity, comment, additional feature, clock frequency.

HTTP	Get
Request	
Type	
URL	/getComputerForSearch?clockFrequency=2.7&additionalFeature=Face recognition&customerComment=moderate&storageCapacity=1 TB
Body	
Response	

Response:

[

```
"productID": 7,
"screenSize": 17.3,
"price": 999.99,
"model": "GL 702VMK",
"brand": {
  "brandID": 2,
  "brandName": "Asus"
},
"commentAndRatingList": [
  {
    "commentAndRatingID": 1,
    "rating": 5,
    "customerComment": "Very nice computer.",
    "product": 7
  },
    "commentAndRatingID": 2,
    "rating": 3,
    "customerComment": "It was getting hot.",
    "product": 7
  },
  {
    "commentAndRatingID": 3,
    "rating": 4,
    "customerComment": "Moderate.",
    "product": 7
  },
    "commentAndRatingID": 4,
    "rating": 2,
    "customerComment": "Bad.",
    "product": 7
```

```
],

"additionalFeatureList": [

{
        "additionalFeatureID": 3,
        "additionalFeature": "Face recognition"

}

],

"screenResolution": "1920x1080",

"storageCapacity": "1 TB",

"computerMemory": "16 GB",

"processor": {
        "processorID": 1,
        "modelName": "Intel i7 7700 HQ",
        "clockFrequency": 2.7

}

}

]
```

8. Get all phones based on search criteria.

• Get all computers between min and max price.

HTTP	Get
Request	
Type	
URL	/getPhoneForSearch/{priceMin}/{priceMax}
Body	
Response	

Response: When we send min price as 500 and max price as 2000, we get the following response,

```
productID": 1,
    "screenSize": 6.7,
```

```
"price": 1099.0,
  "model": "iPhone 12 Pro Max",
  "brand": {
    "brandID": 1,
    "brandName": "Apple"
  },
  "commentAndRatingList": [
    {
       "commentAndRatingID": 5,
       "rating": 5,
       "customerComment": "It was cool",
       "product": 1
    },
    {
       "commentAndRatingID": 6,
       "rating": 1,
       "customerComment": "Very expensive.",
       "product": 1
    },
       "commentAndRatingID": 7,
       "rating": 3,
       "customerComment": "It is good but expensive",
       "product": 1
    }
  ],
  "additional Feature List" : [ \\
    {
       "additionalFeatureID": 1,
       "additionalFeature": "Long battery life"
    }
  ],
  "internalMemory": "128 GB"
},
  "productID": 2,
```

```
"screenSize": 6.5,
  "price": 1099.0,
  "model": "iPhone XS Max",
  "brand": 1,
  "commentAndRatingList": [
       "commentAndRatingID": 8,
       "rating": 2,
       "customerComment": "Meh",
       "product": 2
    },
       "commentAndRatingID": 9,
       "rating": 4,
       "customerComment": "Nice",
       "product": 2
    }
  ],
  "additionalFeatureList": [],
  "internalMemory": "256 GB"
},
{
  "productID": 3,
  "screenSize": 6.2,
  "price": 1249.99,
  "model": "Galaxy S21",
  "brand": {
    "brandID": 3,
    "brandName": "Samsung"
  },
  "commentAndRatingList": [],
  "additionalFeatureList": [],
  "internalMemory": "128 GB"
}
```

]

• Get all phones giving just max price,

HTTP	Get
Request	
Type	
URL	/getPhonesForSearch/{price}
Body	
Response	

Response: If we give max price as 1000, we get the phones that have lower price than 1000.

```
[
  {
     "productID": 4,
     "screenSize": 5.0,
     "price": 199.99,
     "model": "iPhone 5",
     "brand": {
       "brandID": 1,
       "brandName": "Apple"
     "commentAndRatingList": [],
     "additionalFeatureList": [],
     "internalMemory": "32 GB"
  },
     "productID": 5,
     "screenSize": 5.5,
     "price": 249.99,
     "model": "Galaxy S3",
     "brand": {
       "brandID": 3,
       "brandName": "Samsung"
     },
     "commentAndRatingList": [
       {
```

```
"commentAndRatingID": 10,
          "rating": 5,
          "customerComment": "Cheap and fast",
          "product": 5
       }
     ],
     "additionalFeatureList": [
          "additionalFeatureID": 1,
          "additionalFeature": "Long battery life"
       },
       {
          "additionalFeatureID": 2,
          "additionalFeature": "Fingerprint"
       }
     ],
     "internalMemory": "64 GB"
  },
  {
     "productID": 6,
     "screenSize": 6.0,
     "price": 449.99,
     "model": "Galaxy S4",
     "brand": 3,
     "commentAndRatingList": [],
     "additionalFeatureList": [],
     "internalMemory": "128 GB"
  }
]
```

• Get all phones with price is lower than 1500 and screen size is 17.3.

HTTP	Get
Request	
Type	
URL	/getPhonesForSearch/{price}/{screenSize}
Body	
Response	

```
[
     "productID": 1,
    "screenSize": 6.7,
     "price": 1099.0,
     "model": "iPhone 12 Pro Max",
     "brand": {
       "brandID": 1,
       "brandName": "Apple"
     },
     "commentAndRatingList": [
       {
         "commentAndRatingID": 5,
         "rating": 5,
         "customerComment": "It was cool",
         "product": 1
       },
       {
         "commentAndRatingID": 6,
         "rating": 1,
         "customerComment": "Very expensive.",
         "product": 1
       },
```

• Get all phones by giving multiple path variables such as brand name, model, and internal memory.

HTTP	Get
Request	
Type	
URL	/getPhonesForSearch/{brandName}/{model}/{internalMemory}
Body	
Response	

Response: This is the response we get when we send brand name as Apple, model as iPhone 12 Pro Max and internal memory as 128 GB.

```
[
    "productID": 1,
    "screenSize": 6.7,
    "price": 1099.0,
    "model": "iPhone 12 Pro Max",
    "brand": {
        "brandID": 1,
```

```
"brandName": "Apple"
     },
     "commentAndRatingList": [
       {
         "commentAndRatingID": 5,
         "rating": 5,
         "customerComment": "It was cool",
         "product": 1
       },
       {
         "commentAndRatingID": 6,
         "rating": 1,
         "customerComment": "Very expensive.",
         "product": 1
       },
         "commentAndRatingID": 7,
         "rating": 3,
         "customerComment": "It is good but expensive",
         "product": 1
       }
    ],
     "additionalFeatureList": [
         "additionalFeatureID": 1,
         "additionalFeature": "Long battery life"
       }
    ],
     "internalMemory": "128 GB"
  }
]
```

• If we add more multiple path variables, such as, getting all the phones which are higher average rating 3, has customer comment "cheap" and internal memory between 32 GB and 64 GB.

HTTP	Get
Request	
Type	
URL	/getComputerForSearch?rating=3&screenResolution=1920x1080&computerMemoryMin=16 GB&computerMemoryMax=30 GB
Body	
Response	

```
[
  {
     "productID": 5,
     "screenSize": 5.5,
     "price": 249.99,
     "model": "Galaxy S3",
     "brand": {
       "brandID": 3,
       "brandName": "Samsung"
     },
     "commentAndRatingList": [
          "commentAndRatingID": 10,
          "rating": 5,
          "customerComment": "Cheap and fast",
          "product": 5
       }
    ],
     "additionalFeatureList": [
          "additionalFeatureID": 1,
          "additionalFeature": "Long battery life"
```

```
},
{
    "additionalFeatureID": 2,
    "additionalFeature": "Fingerprint"
}
],
"internalMemory": "64 GB"
}
```

• If we add more multiple path variables, such as, getting all the phones which has brand name Samsung, and has additional features of Long battery life and Fingerprint

HTTP	Get
Request	
Type	
URL	$/getComputerForSearch/\{brandName\}/\{additionalFeature\}/\{additionalFeature\}$
Body	
Response	

```
[
    "productID": 5,
    "screenSize": 5.5,
    "price": 249.99,
    "model": "Galaxy S3",
    "brandl": {
        "brandID": 3,
        "brandName": "Samsung"
    },
    "commentAndRatingList": [
        {
            "commentAndRatingID": 10,
            "rating": 5,
            "customerComment": "Cheap and fast",
```

```
"product": 5
}

],

"additionalFeatureList": [
{
        "additionalFeatureID": 1,
        "additionalFeature": "Long battery life"
},

{
        "additionalFeatureID": 2,
        "additionalFeature": "Fingerprint"
}

],

"internalMemory": "64 GB"
}
```