

DESP Usecase – Discovery of Scholarships and Grants

Overview

We have considered below scenarios for implementation of “Discovery of Scholarships and Grants Usecase”.

- 1) Search Scholarships and Grants for "Class 12 pass out students"
- 2) Search Scholarships and Grants for students having "Family Income is less than INR 500000"
- 3) Search Scholarships and Grants for "Under Graduate students"
- 4) Search Scholarships and Grants by "Name"

Features

1. BAP

- User searches scholarships with name, eligibility criteria like family income, gender, qualification, etc.
- Display search result to user

2. BPP

- Post Scholarships
- As per search intent received from BAP, prepare scholarships & grants catalog and send it to BAP

Implementation

Below diagram depicts implementation of Scholarship and Grants Discovery Usecase.

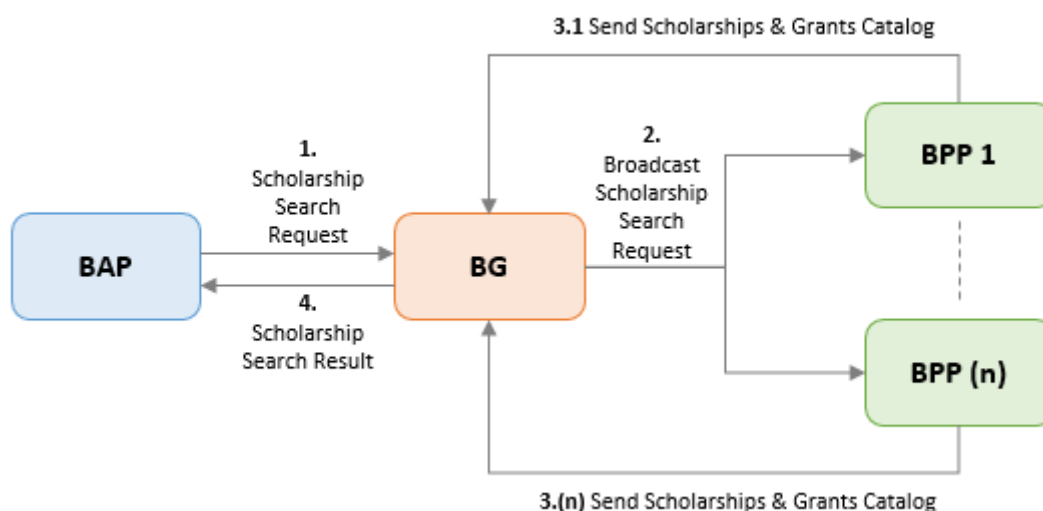


Figure 1. DSEP-Discovery of Scholarships & Grants

1. User will search Scholarships and Grants using BAP application. Search options will be consists of below:
 - a. Search by name

- b. Search by eligibility criteria like family income, qualification, etc.
BAP will create search request as per DSEP spec and send it to BG.
2. BG will search BPPs (registered in “scholarships & grants” domain) from network registry.
Once BPP list is received, BG will broadcast search request (received from BAP) to all BPPs.
3. As per request received from BG, BPP will prepare catalog of matching “Scholarships and Grants” and send it to BG.
4. Once BG receive search response, it will send it to BAP.

DSEP Specs

1. ***DSEP Application Platform Sends a Search Intent to search Scholarships & Grants for "Class 12 pass out students".***

```
{
  "context": {
    "domain": "scholarships and grants",
    "country": "IND",
    "city": "std:080",
    "action": "search",
    "core_version": "0.9.3",
    "bap_id": "exampleapp.io",
    "bap_uri": "https://api.exampleapp.io/dsep/v0/",
    "message_id": "5ac3dd78-829e-4c7d-9139-a15adbb582cc",
    "timestamp": "2021-03-23T10:00:40.065Z"
  },
  "message": {
    "intent": {
      "eligibility": [
        {
          "pastEducationDetail": [
            {
              "pastAcadCourseLevelName": "Higher Secondary"
            }
          ]
        }
      ]
    }
  }
}
```

2. ***DSEP Application Platform Sends a Search Intent to search Scholarships & Grants for students having "Family Income is less than 500000".***

```
{
  "context": {
    "domain": "scholarships and grants",
    "country": "IND",
    "city": "std:080",
    "action": "search",
    "core_version": "0.9.3",
    "bap_id": "https://exampleapp.io/",
    "bap_uri": "https://api.exampleapp.io/dsep/v0/",
    "message_id": "5ac3dd78-829e-4c7d-9139-a15adbb582cc",
    "timestamp": "2021-03-23T10:00:40.065Z"
  }
}
```

```

},
"message": {
  "intent": {
    "eligibility": {
      "familyIncome": {
        "value": "500000",
        "operator": "lessThanInclusive"
      }
    }
  }
}
}

```

3. DSEP Application Platform Sends a Search Intent to search Scholarships & Grants for "Under Graduate students".

```

{
  "context": {
    "domain": "scholarships and grants",
    "country": "IND",
    "city": "std:080",
    "action": "search",
    "core_version": "0.9.3",
    "bap_id": "https://exampleapp.io/",
    "bap_uri": "https://api.exampleapp.io/dsep/v0/",
    "message_id": "5ac3dd78-829e-4c7d-9139-a15adbb582cc",
    "timestamp": "2021-03-23T10:00:40.065Z"
  },
  "message": {
    "intent": {
      "eligibility": {
        "currEducationDetails": {
          "currAcadCourseLevelName": "Under Graduation"
        }
      }
    }
  }
}

```

4. DSEP Application Platform Sends a Search Intent to search Scholarship and Grants by "Name"

```

{
  "context": {
    "domain": "scholarships and grants",
    "country": "IND",
    "city": "std:080",
    "action": "search",
    "core_version": "0.9.3",
    "bap_id": "https://exampleapp.io/",
    "bap_uri": "https://api.exampleapp.io/dsep/v0/",
    "message_id": "5ac3dd78-829e-4c7d-9139-a15adbb582cc",
    "timestamp": "2021-03-23T10:00:40.065Z"
  },
  "message": {
    "intent": {

```

```

    "item": {
      "descriptor": {
        "name": "Scholarship Program for 2022"
      }
    }
  }
}

```

5. BPP Returns a Scholarship and Grants catalog

```

{
  "context": {
    "domain": "scholarships and grants",
    "country": "IND",
    "city": "std:080",
    "action": "on_search",
    "core_version": "0.9.3",
    "bap_id": "https://exampleapp.io/",
    "bap_uri": "https://api.exampleapp.io/uhi/v0/",
    "bpp_id": "examplebpp.io",
    "bpp_uri": "https://api.examplebpp.io/uhi/v0/",
    "message_id": "5ac3dd78-829e-4c7d-9139-a15adbb582cc",
    "timestamp": "2021-03-23T10:00:40.065Z"
  },
  "message": {
    "catalog": {
      "bpp/descriptor": {
        "name": "Scholarship and Grants Provider BPP"
      },
      "bpp/providers": [
        {
          "id": "1",
          "descriptor": {
            "name": "Vivo Foundation"
          },
          "items": [
            {
              "id": "1",
              "descriptor": {
                "name": "vivo For Education Scholarship Programme (Under Graduate)
Gujarat 2022-23"
              },
              "fulfillment_id": "1",
              "eligibility_id": "1",
              "matched": true
            },
            {
              "id": "2",
              "descriptor": {
                "name": "vivo For Education Scholarship Programme (Under Graduate)
Punjab 2022-23"
              },
              "fulfillment_id": "2",
              "eligibility_id": "2",

```

```

    "matched": true
  }
],
"eligibility": [
  {
    "id": "1",
    "currEducationDetails": {
      "currAcadCourseLevelId": "UG-01",
      "currAcadCourseLevelName": "Under Graduation",
      "currAcadCourseDetails": {
        "operator": "any",
        "list": [
          {
            "currAcadCourseId": "BE-IT",
            "currAcadCourseName": "B.E. IT"
          },
          {
            "currAcadCourseId": "BE-Comp",
            "currAcadCourseName": "B.E. Computer"
          }
        ]
      }
    }
  },
  "pastEducationDetail": [
    {
      "pastAcadCourseLevelId": "HS-01",
      "pastAcadCourseLevelName": "Higher Secondary",
      "pastAcadCourseName": "Class 12 - SCI",
      "percentage": {
        "value": "60",
        "operator": "greaterThanInclusive"
      }
    }
  ],
  "familyIncome": {
    "value": "500000",
    "operator": "lessThanInclusive"
  },
  "address": {
    "state": {
      "value": "Gujarat",
      "operator": "equal"
    }
  }
},
{
  "id": "2",
  "currEducationDetails": {
    "currAcadCourseLevelId": "UG-01",
    "currAcadCourseLevelName": "Under Graduation",
    "currAcadCourseDetails": {
      "operator": "any",
      "list": [
        {
          "currAcadCourseId": "BE-IT",

```

```

      "currAcadCourseName": "B.E. IT"
    },
    {
      "currAcadCourseId": "BE-Comp",
      "currAcadCourseName": "B.E. Computer"
    }
  ]
}
},
"pastEducationDetail": [
  {
    "pastAcadCourseLevelId": "HS-01",
    "pastAcadCourseLevelName": "Higher Secondary",
    "pastAcadCourseName": "Class 12 - SCI",
    "percentage": {
      "value": "60",
      "operator": "greaterThanInclusive"
    }
  }
],
"familyIncome": {
  "value": "500000",
  "operator": "lessThanInclusive"
},
"address": {
  "state": {
    "value": "Punjab",
    "operator": "equal"
  }
}
},
"fulfillments": [
  {
    "id": "1",
    "type": "ONLINE APPLICATION",
    "amount": "10000",
    "contactPerson": {
      "name": "Dr Rajiv Manocha",
      "email": "rajiv@vivo.comzz"
    },
    "start": {
      "date": "01-06-2022"
    },
    "end": {
      "date": "31-07-2022"
    },
    "applicationURL": "www.vivo-scholarship.com/applyScholarship/62567"
  },
  {
    "id": "2",
    "type": "ONLINE APPLICATION",
    "amount": "10000",
    "contactPerson": {
      "name": "Mr Sharma",

```

```

    "email": "sharma@vivo.comzz"
  },
  "start": {
    "date": "05-06-2022"
  },
  "end": {
    "date": "05-07-2022"
  },
  "applicationURL": "www.vivo-scholarship.com/applyScholarship/34678"
}
]
},
{
  "id": "2",
  "descriptor": {
    "name": "AM/NS India"
  },
  "items": [
    {
      "id": "1",
      "descriptor": {
        "name": "AM/NS Beti Padhao Scholarship for Girls Student Pursing
Professional Sports at National level"
      },
      "fulfillment_id": "1",
      "eligibility_id": "1",
      "matched": true
    }
  ],
  "eligibility": [
    {
      "id": "1",
      "currEducationDetails": {
        "currAcadCourseLevelId": "PC-01",
        "currAcadCourseLevelName": "Professional Certificate"
      },
      "pastEducationDetail": [
        {
          "pastAcadCourseLevelId": "GRAD-01",
          "pastAcadCourseLevelName": "Graduation",
          "percentage": {
            "value": "60",
            "operator": "greaterThanInclusive"
          }
        }
      ],
      {
        "pastAcadCourseLevelId": "HS-01",
        "pastAcadCourseLevelName": "Higher Secondary",
        "percentage": {
          "value": "60",
          "operator": "greaterThanInclusive"
        }
      }
    },
    {
      "pastAcadCourseLevelId": "PS-01",

```

```
        "pastAcadCourseLevelName": "Primary & Secondary",
        "pastAcadCourseName": "Class 10",
        "percentage": {
            "value": "60",
            "operator": "greaterThanInclusive"
        }
    },
    "gender": "Female"
},
"fulfillments": [
    {
        "id": "1",
        "type": "ONLINE APPLICATION",
        "amount": "50000",
        "contactPerson": {
            "name": "Ms Riya",
            "email": "riya@amns.inzz"
        },
        "start": {
            "date": "25-05-2022"
        },
        "end": {
            "date": "30-06-2022"
        },
        "applicationURL": "www.amns-scholarship.in/applyScholarship/abg25"
    }
]
}
```

Artefacts to be delivered

- I. BAP Reference Application
- II. BPP Reference Application
- III. DSEP Specifications for Discovery of Scholarships and Grants