MSDF SDCOE Ed-Fi Transcript Prototype:

Transcript-Backend and CLI Reference

Contents

Documentation Notes

Note: There are sections in this document where a URL, domain name, user name, password, IP address or email address are highlighted in light orange. This signifies where each person or organization installing this application will substitute their own information.

Transcript-Backend

In the transcript-backend folder, this is the module that deals with interaction with ODS and for creating standard JSON and pdf files.

```
# in project directory, navigate to transcript-backend module
$ cd transcript-backend
```

Installing Packages

```
$ yarn
```

Help Menu

```
$ yarn transcript-cli --help
```

```
yarn run v1.22.10
warning package.json: License should be a valid SPDX license expression
$ node ./cli/transcript-cli.js --help
Usage: standard-transcript [options] [command]

CLI for Standard Transcript Generator

Options:
  -V, --version                                          output the version number
  -h, --help                                             display help for command

Commands:
  query-composite [compositeName]                        Query a specific composite
(educationOrganizationHierarchy, studentTranscript
  query-transcript-by-student-id [odsConfigFile] [studentId]            Query standard
transcript provided a studentId
  query-transcript-by-student-demographics [odsConfigFile] [firstName] [lastName] [dateOfBirth]  Query
standard transcript provided student demographics (path to odsConfig file)  (firstName, lastName, dob in
```

```
yyyy-mm-dd)
  render-standard-transcript-pdf [fileName] [destination]                    Renders a standard
transcript pdf given a file with a JSON transcript
  render-rop-transcript-pdf [fileName] [destination]                    Renders a ROP certificate
pdf given filename with a JSON ROP certificate
  validate-standard-json [fileName]                    Validates whether a json file
fits a standard transcript
  handlebar-model-for-standard [fileName]                    Creates handlebar model
for standard json. Pass path to standard
  composite-to-standard [transcriptFile] [enrollmentsFile] [educationalOrganizationFile]        Prints
standard JSON for the given composite files
  help [command]                    display help for command
```

Edit .env file

```
$ cp .env.example .env
$ nano .env
# Update the .env values
```

```
CLIENT_ID=dK4jX….
CLIENT_SECRET=RtFWvN...
BASE_URL=https://edfiapi.yourdomain.com
```

And update the client_id, client_secret and base_url in the odsConfig.json file.

```
$ nano cli/configs/odsConfig.json
# Update the values of clientId, clientSecret and baseUrl
```

```
# sample content of odsConfig.json file
{
  "odsConfigs": [
    {
      "clientId": "dK4jX....",
      "clientSecret": "RtFWv...",
      "baseUrl": "https://edfiapi.yourdomain.com"
    }
  ]
}
# Make sure that the above are correct
```

Commands

1. Query Composite

```
$ yarn transcript-cli query-composite [compositeName]
```

Query a specific composite (educationOrganizationHierarchy, studentTranscript)

Example:

```
$ yarn transcript-cli query-composite educationOrganizationHierarchy
```

```
$ node ./cli/transcript-cli.js query-composite educationOrganizationHierarchy
Authorizing to https://edfiapi.yourdomain.com
Authorized to https://edfiapi.yourdomain.com
Fetching
https://edfiapi.yourdomain.com/composites/v1/SDCOE/Transcript/EducationOrganizationHierarchi
es
[
  {
    schoolResourceId: '1d4f3e85e7fd4b55aed460d41fd26589',
    schoolId: 255901001,
    nameOfSchool: 'Grand Bend High School',
    localEducationAgencyResourceId: '922d768f6b3f4ed78ce77d13e44b505a',
    localEducationAgencyId: 255901,
    nameOfLocalEducationAgency: 'Grand Bend ISD',
    addresses: [ [Object], [Object] ]
  },
  {
    schoolResourceId: 'caf986184c19428c8489119d13353fcb',
    schoolId: 255901044,
    nameOfSchool: 'Grand Bend Middle School',
    localEducationAgencyResourceId: '922d768f6b3f4ed78ce77d13e44b505a',
    localEducationAgencyId: 255901,
    nameOfLocalEducationAgency: 'Grand Bend ISD',
    addresses: [ [Object], [Object] ]
  },
  {
    schoolResourceId: '461bf6cbf8834ed0bd76670f40790bd0',
    schoolId: 255901107,
    nameOfSchool: 'Grand Bend Elementary School',
    localEducationAgencyResourceId: '922d768f6b3f4ed78ce77d13e44b505a',
    localEducationAgencyId: 255901,
    nameOfLocalEducationAgency: 'Grand Bend ISD',
    addresses: [ [Object], [Object] ]
  }
]
Done in 2.77s
```

2. Query Transcript by student Id

```
$ yarn transcript-cli query-transcript-by-student-id [odsConfigFile] [studentId]
```

Query standard transcript provided a studentId

Example:

```
$ yarn transcript-cli query-transcript-by-student-id cli/configs/odsConfig.json 604821
```

Production Environment

```
# linux
$ NODE_ENV=production yarn transcript-cli query-transcript-by-student-id
cli/configs/odsConfig.json 604821
# windows
$ SET NODE_ENV=production && yarn transcript-cli query-transcript-by-student-id
cli/configs/odsConfig.json 604821
```

```
$ node ./cli/transcript-cli.js query-transcript-by-student-id cli/configs/odsConfig.json 604821
Authorizing to https://edfiapi.yourdomain.com
Authorized to https://edfiapi.yourdomain.com
Fetching
https://edfiapi.yourdomain.com/composites/v1/SDCOE/Transcript/StudentTranscripts?studentUniq
ueId=604821
Authorizing to https://edfiapi.yourdomain.com
Authorized to https://edfiapi.yourdomain.com
Fetching
https://edfiapi.yourdomain.com/composites/v1/SDCOE/Transcript/EducationOrganizationHierarchi
es
MainTranscript {
  studentTranscript: StudentTranscript {
    resourceId: 'a46168c9fb094172a23fdb9ab2ce9177',
    transcriptRunDate: '06/17/2021',
    studentUniqueId: '604821',
    studentUniqueIdType: 'SIS',
    firstName: 'Tyrone',
    lastSurname: 'Dyer',
    birthDate: '2003-11-13T00:00:00',
    birthSexDescriptor: null,
    studentLocalId: '821',
    studentIdentificationSystemDescriptor:
'uri://ed-fi.org/StudentIdentificationSystemDescriptor#Local',
    demographics: [ [Demographics] ],
    guardians: [ [Guardian], [Guardian] ],
```

```
   studentAcademicRecords: [ [AcademicRecord], [AcademicRecord] ],
   programs: [],
   studentAssessments: [],
   awardsAchievements: []
  }
 }
 Done in 13.84s.
```

3. Query Transcript by student demographics

```
$ yarn transcript-cli query-transcript-by-student-demographics [odsConfigFile] [firstName]
[lastName] [dateOfBirth]
```

Query standard transcript provided student demographics (path to odsConfig file)
(firstName, lastName, dob in yyyy-mm-dd)

Example:

```
$ yarn transcript-cli query-transcript-by-student-demographics cli/configs/odsConfig.json
Tyrone Dyer 2003-11-13
```

Production Environment

```
# linux
$ NODE_ENV=production yarn transcript-cli query-transcript-by-student-demographics
cli/configs/odsConfig.json Tyrone Dyer 2003-11-13
# windows
$ SET NODE_ENV=production && yarn transcript-cli
query-transcript-by-student-demographics cli/configs/odsConfig.json Tyrone Dyer
2003-11-13
```

```
$ node ./cli/transcript-cli.js query-transcript-by-student-demographics cli/configs/odsConfig.json
Tyrone Dyer 2003-11-13
Authorizing to https://edfiapi.yourdomain.com
Authorized to https://edfiapi.yourdomain.com
Fetching
https://edfiapi.yourdomain.com/composites/v1/SDCOE/Transcript/StudentTranscripts?firstName=T
yrone&lastSurname=Dyer&birthDate=2003-11-13
Authorizing to https://edfiapi.yourdomain.com
Authorized to https://edfiapi.yourdomain.com
Fetching
https://edfiapi.yourdomain.com/composites/v1/SDCOE/Transcript/EducationOrganizationHierarchie
s
```

```
MainTranscript {
  studentTranscript: StudentTranscript {
    resourceId: 'a46168c9fb094172a23fdb9ab2ce9177',
    transcriptRunDate: '06/17/2021',
    studentUniqueId: '604821',
    studentUniqueIdType: 'SIS',
    firstName: 'Tyrone',
    lastSurname: 'Dyer',
    birthDate: '2003-11-13T00:00:00',
    birthSexDescriptor: null,
    studentLocalId: '821',
    studentIdentificationSystemDescriptor:
'uri://ed-fi.org/StudentIdentificationSystemDescriptor#Local',
    demographics: [ [Demographics] ],
    guardians: [ [Guardian], [Guardian] ],
    studentAcademicRecords: [ [AcademicRecord], [AcademicRecord] ],
    programs: [],
    studentAssessments: [],
    awardsAchievements: []
  }
}
Done in 45.97s.
```

4. Render Standard Transcript PDF

```
$ yarn transcript-cli render-standard-transcript-pdf [fileName] [destination]
```
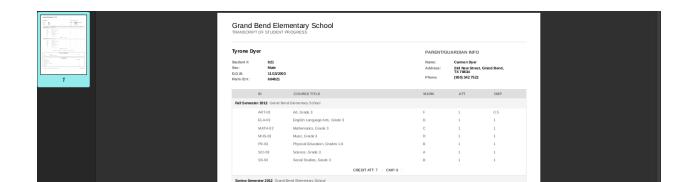
Renders a standard transcript pdf given a file with a JSON transcript

Example:

```
$ yarn transcript-cli render-standard-transcript-pdf
transcripts/resources/standard-large-sample.json output.pdf
```

```
$ node ./cli/transcript-cli.js render-standard-transcript-pdf
transcripts/resources/standard-large-sample.json output.pdf
PDF Rendered : output.pdf
SUCCESS
Done in 1.76s.
```

Output File created: output.pdf

5. Render ROP Transcript PDF

```
$ yarn transcript-cli render-rop-transcript-pdf [fileName] [destination]
```

Renders a ROP certificate pdf given filename with a JSON ROP certificate

Example:

```
$ yarn transcript-cli render-rop-transcript-pdf
transcripts/resources/standard-large-sample.json outputROP.pdf
```

```
$ node ./cli/transcript-cli.js render-rop-transcript-pdf
transcripts/resources/standard-large-sample.json outputROP.pdf
PDF Rendered : outputROP.pdf
SUCCESS
Done in 1.09s.
```

Output File created: outputROP.pdf