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1.0			Initial version

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1 Overview

1.1 Project Overview

The ProgramTMS application is a system used to manage program & catalogs such as Genre, Cast, Crew, Rating, Qualifier & Program Type. In order to support new a Program, Variants & Versions, the application will provide services to achieve these requirements. In addition to this, Solr application will be configure to provide text searching services to improve request-response model performance.

1.2 **Purpose**

This document defines the detailed design for Program & Catalogs APIs, as well, Solr Searching services for ProgramTMS project. This document will describe the systems, components, interactions, and classes involved in these services.

2 Solutions Design

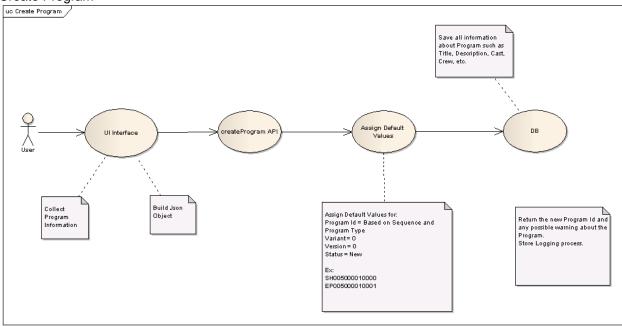
2.1 **Design Overview**

In order to support the functionality requirements for the ProgramTMS application, a number of new services will be created. The following describes the high level designs for each service:

2.2 Create Program

2.2.1 Use Case Diagrams

Create Program



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2.2.2 Tables

Id_Map

Below is a snapshot of how the table will look like after a new program is created.

ID_MAP_REC	ROOT_ID	PROGRAM_ID	VARIANT_ID	STATUS	PROGRAM_VERSION	PGM_META_ID	OWNER	PPRFID
699380	NULL	SH005000210000	0	1	0	3382201	1	1281
699381	NULL	SH005000210000	0	1	0	3382202	1	1281

Id_Map_Log

Below is a snapshot of how the table will look like after a new program is created.

ID	ID_MAP_REC	USER_ID	MODIFY_DATE
23881	699380	50	19-FEB-12 12.45.24
23882	699381	50	19-FEB-12 12.45.25

Program_Meta

Below is a snapshot of how the table will look like after a new program is created.

PGM_META_ID	VERSION	PROGRAM_ID	LANG_ID	ROOT_ID	OWNER	TYPE	 ADULT
3382201	0	SH005000210000	1	NULL	1	5	 NULL
3382202	0	SH005000210000	2	NULL	1	5	 NULL

Pgm_Title

Below is a snapshot of how the table will look like after a new program is created.

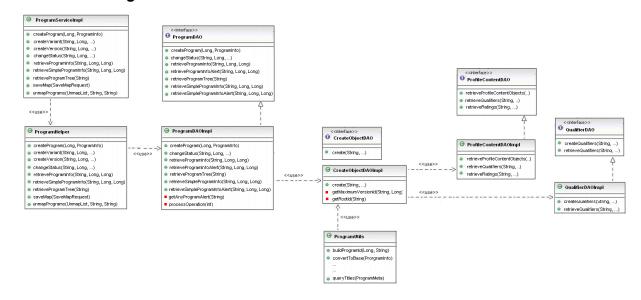
ID	LANG_ID	TEXT_SIZE	TITLE	OWNER	PGM_META_ID
5955501	1	128	TEST	1	3382201
5955502	2	128	PRUEBA	1	3382202

IMDB

Below is a snapshot of how the table will look like after a new program is created.

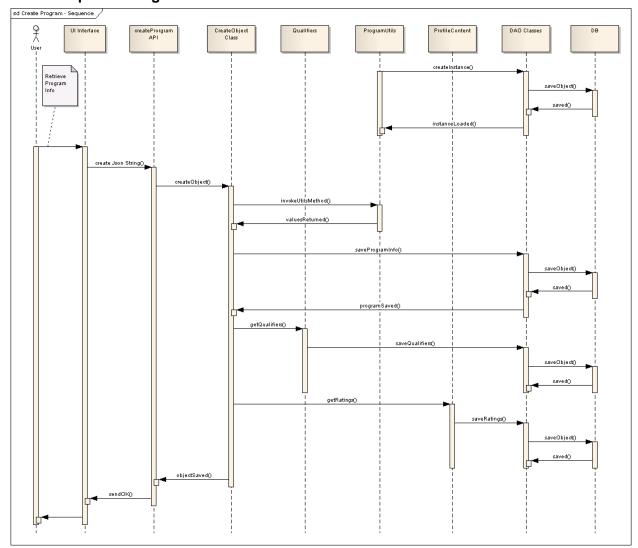
ID	PROGRAM_ID	IMDB_ID	DESCRIPTION		IMDB_URL
21	SH005000210000	tt0111161	The Shawshank Redemption		3382201

2.2.3 Class Diagrams



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2.2.4 Sequence Diagrams



2.2.5 Core Components

The following core components are created:

- ProgramServiceImpl.java Contains the Restful service available to use.
- **ProgramHelper.java** Helper class.
- **ProgramDAO.java** Interface.
- **ProgramDAOImpl.java** Compose Program object.
- CreateObjectDAO.java Interface.
- CreateObjectDAOImpl.java Generic class to create the Program object.
- **ProgramUtils.java** Class that contains useful methods.
- ProfileContentDAO.java Interface.
- ProfileContentDAOImpl.java Class to manage Qualifiers & Ratings for Profile Content Table.
- QualifierDAO.java Interface.
- QualifierDAOImpl.java Class to handle Qualifiers.

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2.2.6 Test Cases

- · Create Program.
 - o Retrieve Program Information
 - o Build Json Object
 - o Post Json Object into Create Program API.
 - Compose Program Object
 - o Get from Program Object any Qualifier and Save them.
 - Save Program Object
 - Log create action into ID_MAP_LOG table
 - Response Program ID and any possible warning about it.

2.2.7 Request Action

The following URL may be used to create a program: http://host:port/ProgramTMS/resources/program/createProgram/{userId}

PARAMETER	DESCRIPTION
{userId}	Valid User Id – Numeric value.

Example:

http://host:port/ProgramTMS/resources/program/createProgram/50

HTTP Headers

The following HTTP Headers are required to complete Request process.

HTTP HEADER	VALUE
Content-Type	application/json
Accept	application/json

HTTP Method

The Request Action needs to define a HTTP Post method.

Request Object

The following file describes a Request Object as example: http://host:port/ProgramTMS/

2.2.8 Response Action

The following file describes a Response Object as example: http://host:port/ProgramTMS/

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2.2.9 Create Episode - Program

In order to create an Episode, it will be required to pass the Series or Show ID into the Request object, the property identified and used for this task:

PARAMETER	DESCRIPTION
parentProgramID	Valid Program Id – Alphanumeric value.

Example:

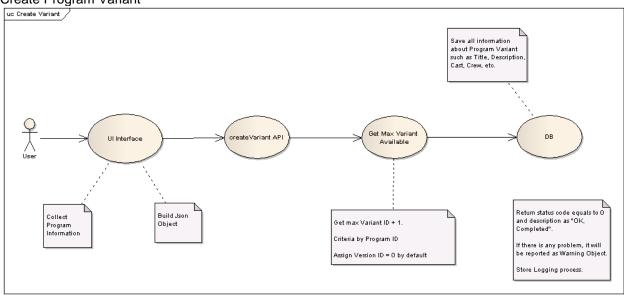
Create an Episode – brief example for Request Object.

```
"programTypeId": 1,
"programTypeDesc": "Episodes",
"programPrefixTypeId": 1,
"programPrefixTypeDesc": "EP",
"parentProgramId": "SH005000100000",
"versionId": null,
"connectorId": null,
"seasonId": null,
"seriesId": null,
"officialUrl": null,
"officialUrl": null,
"colorCode": null,
"sourceType": null,
"animation": null,
"adult": 0,
```

2.3 Create Variant

2.3.1 Use Case Diagrams

Create Program Variant



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2.3.2 Tables

Id_Map

Below is a snapshot of how the table will look like after a new variant is created.

ID_MAP_REC	ROOT_ID	PROGRAM_ID	VARIANT_ID	STATUS	PROGRAM_VERSION	PGM_META_ID	OWNER	PPRFID
699380	NULL	SH005000210000	0	3	0	3382201	1	1281
699381	NULL	SH005000210000	0	3	0	3382202	1	1281
699402	NULL	SH005000210000	1	1	0	3382225	1	1376
699403	NULL	SH005000210000	1	1	0	3382226	1	1376

Id_Map_Log

Below is a snapshot of how the table will look like after a new variant is created.

ID	ID_MAP_REC	USER_ID	MODIFY_DATE
23899	699402	50	21-FEB-12 15.35.24
23900	699403	50	21-FEB-12 15.35.25

Program_Meta

Below is a snapshot of how the table will look like after a new variant is created.

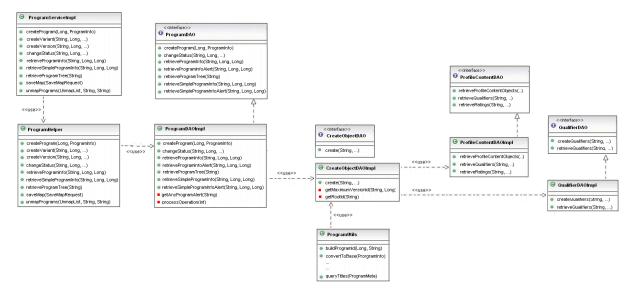
PGM_META_ID	VERSION	PROGRAM_ID	LANG_ID	ROOT_ID	OWNER	TYPE	 ADULT
3382225	0	SH005000210000	1	NULL	1	5	 NULL
3382226	0	SH005000210000	2	NULL	1	5	 NULL

Pgm_Title

Below is a snapshot of how the table will look like after a new variant is created.

ID	LANG_ID	TEXT_SIZE	TITLE	OWNER	PGM_META_ID
5955533	1	128	TEST VARIANT 1	1	3382225
5955534	2	128	PRUEBA VARIANT 1	1	3382226

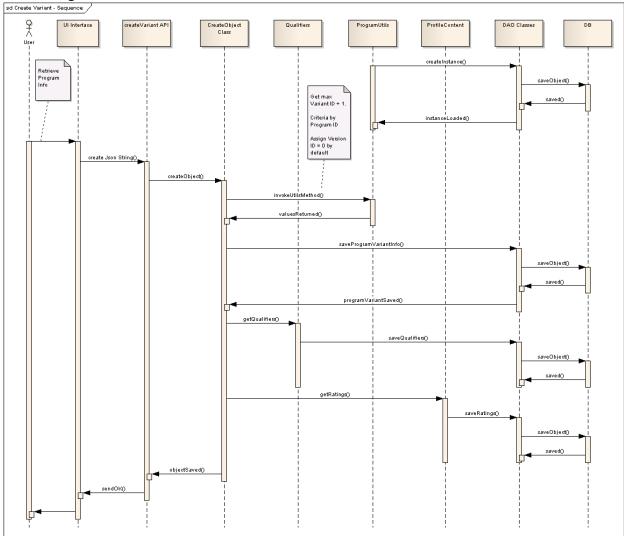
2.3.3 Class Diagrams



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2.3.4 Sequence Diagrams

Create Program Variant



2.3.5 Core Components

The following core components are created:

- ProgramServiceImpl.java Contains the Restful service available to use.
- **ProgramHelper.java** Helper class.
- **ProgramDAO.java** Interface.
- ProgramDAOImpl.java Compose Program object.
- CreateObjectDAO.java Interface.
- **CreateObjectDAOImpl.java** Generic class to create the Program object.
- **ProgramUtils.java** Class that contains useful methods.
- ProfileContentDAO.java Interface.
- ProfileContentDAOImpl.java Class to manage Qualifiers & Ratings for Profile Content Table.
- QualifierDAO.java Interface.
- QualifierDAOImpl.java Class to handle Qualifiers.

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2.3.6 Test Cases

- Create Variant.
 - o Retrieve Variant Information
 - o Build Json Object
 - o Post Json Object into Create Variant API.
 - Compose Variant Object
 - o Get from Variant Object any Qualifier and Save them.
 - Save Variant Object
 - Log create action into ID_MAP_LOG table
 - o Response OK to complete process.

2.3.7 Request Action

The following URL may be used to create a variant:

http://host:port/ProgramTMS/resources/program/createVariant/{programId}&{variantId}&{versionId}&{userId}

PARAMETER	DESCRIPTION
{programId}	Valid Program Id – Alphanumeric value.
{variantId}	Valid Variant Id – Numeric value.
{versionId}	Valid Version Id – Numeric value.
{userId}	Valid User Id – Numeric value.

Example:

http://host:port/ProgramTMS/resources/program/createVariant/SH005000010000&0&0&50

HTTP Headers

The following HTTP Headers are required to complete Request process.

HTTP HEADER	VALUE
Content-Type	application/json
Accept	application/json

HTTP Method

The Request Action needs to define a HTTP Post method.

Request Object

The following file describes a Request Object as example: http://host:port/ProgramTMS/

2.3.8 Response Action

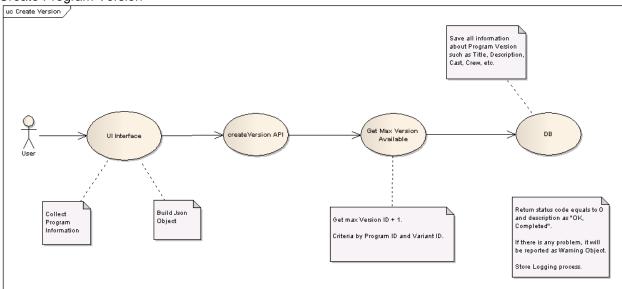
The following file describes a Response Object as example: http://host:port/ProgramTMS/

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2.4 Create Version

2.4.1 Use Case Diagrams

Create Program Version



2.4.2 Tables

Id_Map

Below is a snapshot of how the table will look like after a new version is created.

ID_MAP_REC	ROOT_ID	PROGRAM_ID	VARIANT_ID	STATUS	PROGRAM_VERSION	PGM_META_ID	OWNER	PPRFID
699380	NULL	SH005000210000	0	3	0	3382201	1	1281
699381	NULL	SH005000210000	0	3	0	3382202	1	1281
699415	NULL	SH005000210000	0	1	1	3382228	1	1376
699416	NULL	SH005000210000	0	1	1	3382229	1	1376

Id_Map_Log

Below is a snapshot of how the table will look like after a new version is created.

ID	ID_MAP_REC	USER_ID	MODIFY_DATE
23915	699415	50	21-FEB-12 17.15.24
23916	699416	50	21-FEB-12 17.15.25

Program_Meta

Below is a snapshot of how the table will look like after a new version is created.

PGM_META_ID	VERSION	PROGRAM_ID	LANG_ID	ROOT_ID	OWNER	TYPE	 ADULT
3382228	0	SH005000210000	1	NULL	1	5	 NULL
3382229	0	SH005000210000	2	NULL	1	5	 NULL

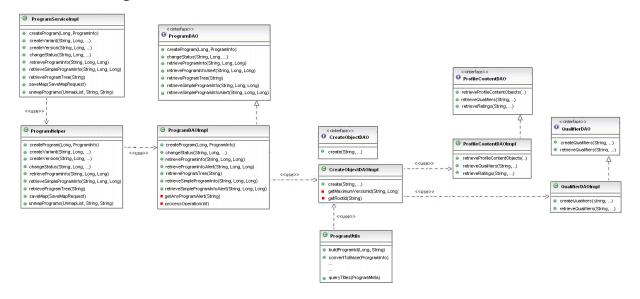
Pgm_Title

Below is a snapshot of how the table will look like after a new version is created.

ID	LANG_ID	TEXT_SIZE	TITLE	OWNER	PGM_META_ID
5955539	1	128	TEST VERSION 1	1	3382228
5955540	2	128	PRUEBA VERSION 1	1	3382229

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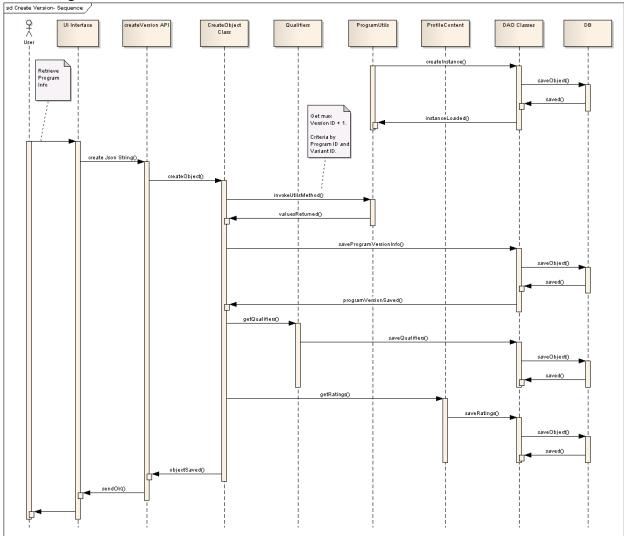
2.4.3 Class Diagrams



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2.4.4 Sequence Diagrams

Create Program Version



2.4.5 Core Components

The following core components are created:

- ProgramServiceImpl.java Contains the Restful service available to use.
- **ProgramHelper.java** Helper class.
- **ProgramDAO.java** Interface.
- **ProgramDAOImpl.java** Compose Program object.
- CreateObjectDAO.java Interface.
- **CreateObjectDAOImpl.java** Generic class to create the Program object.
- **ProgramUtils.java** Class that contains useful methods.
- ProfileContentDAO.java Interface.
- ProfileContentDAOImpl.java Class to manage Qualifiers & Ratings for Profile Content Table.
- QualifierDAO.java Interface.
- QualifierDAOImpl.java Class to handle Qualifiers.

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2.4.6 Test Cases

- Create Version.
 - o Retrieve Version Information
 - Build Json Object
 - o Post Json Object into Create Version API.
 - Compose Version Object
 - o Get from Version Object any Qualifier and Save them.
 - Save Version Object
 - Log create action into ID_MAP_LOG table
 - o Response OK to complete process.

2.4.7 Request Action

The following URL may be used to create a version:

http://host:port/ProgramTMS/resources/program/createVersion/{programId}&{variantId}&{versionId}&{userId}

PARAMETER	DESCRIPTION
{programId}	Valid Program Id – Alphanumeric value.
{variantId}	Valid Variant Id – Numeric value.
{versionId}	Valid Version Id – Numeric value.
{userId}	Valid User Id – Numeric value.

Example:

http://host:port/ProgramTMS/resources/program/createVersion/ \$\footnote{SH005000010000&0&0&50} \]

HTTP Headers

The following HTTP Headers are required to complete Request process.

HTTP HEADER	VALUE
Content-Type	application/json
Accept	application/json

HTTP Method

The Request Action needs to define a HTTP Post method.

Request Object

The following file describes a Request Object as example: http://host:port/ProgramTMS/

2.4.8 Response Action

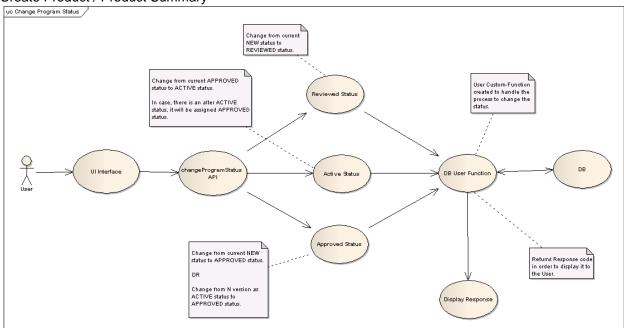
The following file describes a Response Object as example: http://host:port/ProgramTMS/

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2.5 Change Program Status

2.5.1 Use Case Diagrams

Create Product / Product Summary



2.5.2 Tables

Id_Map

Below is a snapshot of how the table will look like after a change is completed from NEW to APPROVED status.

NEW status

ID_MAP_REC	ROOT_ID	PROGRAM_ID	VARIANT_ID	STATUS	PROGRAM_VERSION	PGM_META_ID	OWNER	PPRFID
699380	NULL	SH005000210000	0	1	0	3382201	1	1281
699381	NULL	SH005000210000	0	1	0	3382202	1	1281

APPROVED status

ID_MAP_F	REC ROOT_ID	PROGRAM_ID	VARIANT_ID	STATUS	PROGRAM_VERSION	PGM_META_ID	OWNER	PPRFID
699380	NULL	SH005000210000	0	3	0	3382201	1	1281
699381	NULL	SH005000210000	0	3	0	3382202	1	1281

Id_Map_Log

Below is a snapshot of how the table will look like after a change status is completed.

ID	ID_MAP_REC	USER_ID	MODIFY_DATE
23928	699380	50	23-FEB-12 10.05.24
23929	699381	50	23-FEB-12 10.05.25

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2.5.3 Database User Custom Function

FN_CHANGE_PROGRAM_STATUS

The FN_CHANGE_PROGRAM_STATUS function will handle the process to change the Program status.

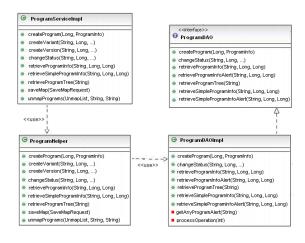
The following table describes the parameters need to pass into the DB function.

PARAMETER	ТҮРЕ	DESCRIPTION
prg_ID	ID_MAP.PROGRAM_ID%type	Valid Program ID – Alphanumeric value
variantID	ID_MAP.VARIANT_ID%type	Valid Variant ID – Numeric value
versionID	ID_MAP_PROGRAM_VERSION%type	Valid Version ID – Numeric value
userID	ID_MAP_LOG.USER_ID%type	Valid User ID – Numeric value
statusType	PGM_STATUS.ID%type	Valid Status Type – Numeric value
operationType	Integer	Either 0=Change or 1=Delete value.

The following file describes the DB function:



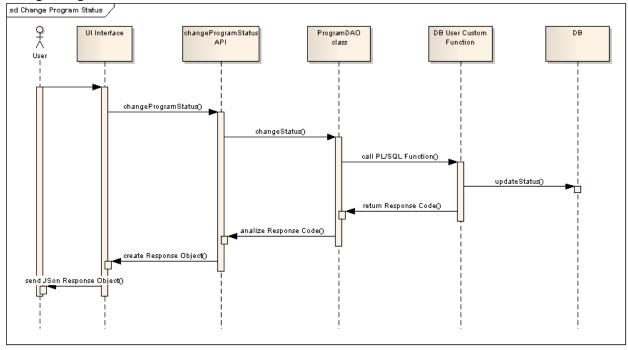
2.5.4 Class Diagrams



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2.5.5 Sequence Diagrams

Change Program Status



2.5.6 Core Components

The following core components are created:

- **ProgramServiceImpl.java** Contains the Restful service available to use.
- ProgramHelper.java Helper class.
- **ProgramDAO.java** Interface.
- **ProgramDAOImpl.java** Compose Program object.

2.5.7 Test Cases

- Change from NEW status to REVIEWED status.
 - Input program, variant, version & user IDs, as well, value 2 as REVIEWED status to the parameters.
 - Response OK Completed.
- Change from NEW status to APPROVED status.
 - o Input program, variant, version & user IDs, as well, value 11 as APPROVED status to the parameters.
 - Response OK Completed.
- Change from APPROVED status to ACTIVE status.
 - Input program, variant, version & user IDs, as well, value 3 as ACTIVE status to the parameters.
 - o In case, there is other version as ACTIVE status, it will be change it to APPROVED status automatically. There must be only one version as ACTIVE status.
 - Response OK Completed.

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2.5.8 Request Action

The following URL may be used to change program status:

http://host:port/ProgramTMS/resources/program/changeProgramStatus/programId={programId}&variantId={variantId}&versionId={versionId}&statusId={statusId}&userId={userId}

PARAMETER	DESCRIPTION
{programId}	Valid Program Id – Alphanumeric value.
{variantId}	Valid Variant Id – Numeric value.
{versionId}	Valid Version Id – Numeric value.
{statusId}	Valid Status Id – Numeric value – Options {2=Reviewed, 11=Approved, 3=Active}
{userId}	Valid User Id – Numeric value.

Example, change from NEW status to REVIEWED status:

http://host:port/ProgramTMS/resources/program/changeProgramStatus/programId=SH005000440000&variantId=1&versionId=1&statusId=2&userId=50

Example, change from NEW status to APPROVED status:

http://host:port/ProgramTMS/resources/program/changeProgramStatus/programId=SH005000440000&variantId=1&versionId=2&statusId=11&userId=50

Example, change from APPROVED status to ACTIVE status:

http://host:port/ProgramTMS/resources/program/changeProgramStatus/programId=SH005000440000&variantId=1&versionId=2&statusId=3&userId=50

HTTP Headers

The following HTTP Headers are required to complete Request process.

HTTP HEADER	VALUE
Content-Type	application/json
Accept	application/json

HTTP Method

The Request Action needs to define a HTTP Get method.

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2.5.9 Response Action

```
The following file describes a Response Object as example:
{
    "statusCode": 0,
    "statusDescription": "OK completed"
}
```

The following HTTP Headers are required to complete Request process.

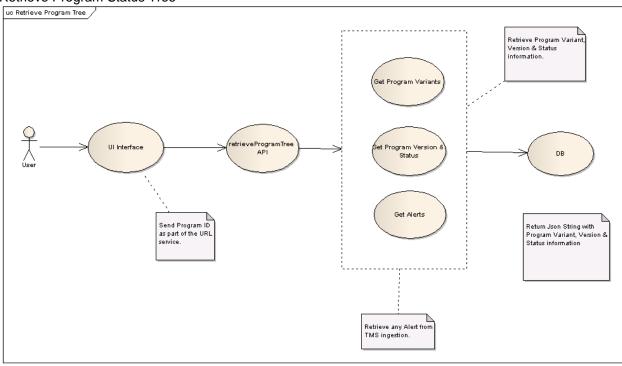
DB FUNCTION RESPONSE CODE	RESPONSE CODE TO UI	DESCRIPTION
1	2103	Cannot pass DELETE status as Parameter, use operationType Parameter instead.
2	2103	Already set to ACTIVE status.
3	2103	Already set to APPROVED status.
4	2103	Cannot change status, current DELETE status.
5	2103	Cannot change status, there is no Program with APPROVED status.
6	2103	Status type should be change between APPROVED and ACTIVE status.
7	2103	Program does not exist.
8	2103	There is a version assigned with ACTIVE status, it cannot be deleted the Program at all.
9	2103	Operation does not allowed.
10	0	OK completed
11	2103	Oracle PL/SQL Error
12	2103	Current Status NEW -> ACTIVE is not valid, it must be APPROVED -> ACTIVE.
13	2103	Already set to REVIEWED status.
14	2103	Cannot change to REVIEWED status. Current status is either APPROVED or ACTIVED.
15	2103	TMS Program status should be either APPROVED or REVIEWED only.
N/A	2103	General Error

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2.6 Retrieve Program Status Tree

2.6.1 Use Case Diagrams

Retrieve Program Status Tree



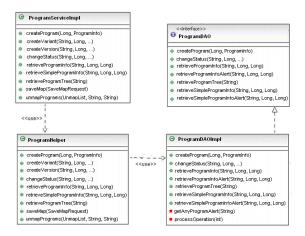
2.6.2 Tables

Below is a snapshot of how the table will look like in order to retrieve program status tree info.

ID_MAP_REC	ROOT_ID	PROGRAM_ID	VARIANT_ID	STATUS	PROGRAM_VERSION	PGM_META_ID	OWNER	PPRFID
699380	NULL	SH005000210000	0	2	0	3382201	1	1281
699381	NULL	SH005000210000	0	2	0	3382202	1	1281
699382	NULL	SH005000210000	0	11	1	3382203	1	1244
699383	NULL	SH005000210000	0	11	1	3382204	1	1244
699384	NULL	SH005000210000	1	3	0	3382205	1	1275
699385	NULL	SH005000210000	1	3	0	3382206	1	1275

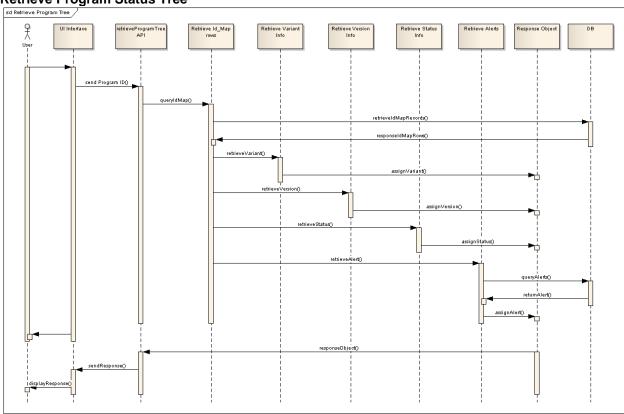
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2.6.3 Class Diagrams



2.6.4 Sequence Diagrams

Retrieve Program Status Tree



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2.6.5 Core Components

The following core components are created:

- ProgramServiceImpl.java Contains the Restful service available to use.
- **ProgramHelper.java** Helper class.
- ProgramDAO.java Interface.
- **ProgramDAOImpl.java** Compose Program object.
- **ProgramUtils.java** Class that contains useful methods.

2.6.6 Test Cases

- Retrieve Program Status Tree.
 - Set Program ID as URL parameter
 - o Invoke retrieveProgramTree Api.
 - o Retrieve Program Variant, Version & Status info.
 - o Build Response Object.
 - Validate Response Object.

2.6.7 Request Action

The following URL may be used to retrieve program status tree: http://host:port/ProgramTMS/resources/program/retrieveProgramTree/programId={programId}

PARAMETER	DESCRIPTION
{programId}	Valid Program Id – Alphanumeric value.

Example:

http://host:port/ProgramTMS/resources/program/retreiveProgramTree/programId=SH005000440000

HTTP Headers

The following HTTP Headers are required to complete Request process.

HTTP HEADER	VALUE
Content-Type	application/json
Accept	application/json

HTTP Method

The Request Action needs to define a HTTP Get method.

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2.6.8 Response Action

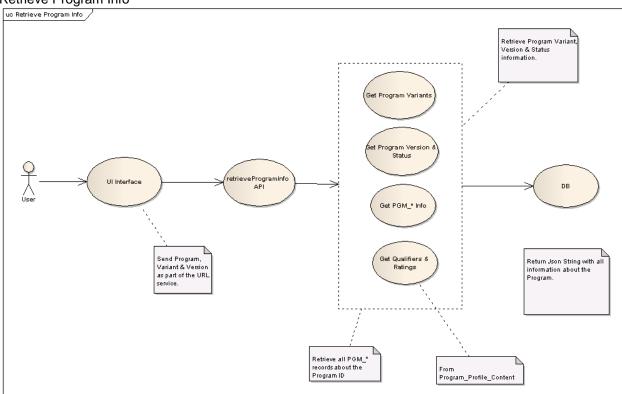
```
The following file describes a Response Object as example:
   "programId": "SH005000010000",
   "tmsId": "SH005000010000",
   "programTypeId": 5,
   "programTypeDesc": "Series",
   "programPrefixTypeId": 5,
   "programPrefixTypeDesc": "SH",
   "variants":
         "variantId": 0,
         "variantDesc": "Variant : 0",
         "versions": [
            "versionId": 1,
            "description": "Version : 1",
            "statusId": 11,
            "statusName": "APPROVED",
            "version": []
         } ]
      },
         "variantId": 2,
         "variantDesc": "This variant for Super Mario Bros",
         "versions": [
            "versionId": 0,
            "description": "Version : 0",
            "statusId": 11,
            "statusName": "APPROVED",
            "version": []
         } ]
   ],
   "alert": null
} ]
```

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2.7 Retrieve Program Information (Complete model)

2.7.1 Use Case Diagrams

Retrieve Program Info



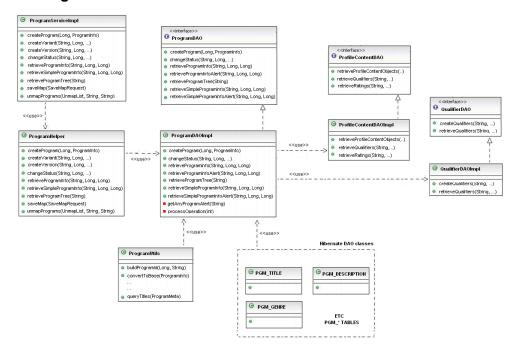
2.7.2 Tables

ID_MAP & PGM_* tables

It will query ID_MAP table, plus PGM_TITLE, PGM_DESCRIPTION, PGM_GENRE, PGM_CREDIT, etc. tables.

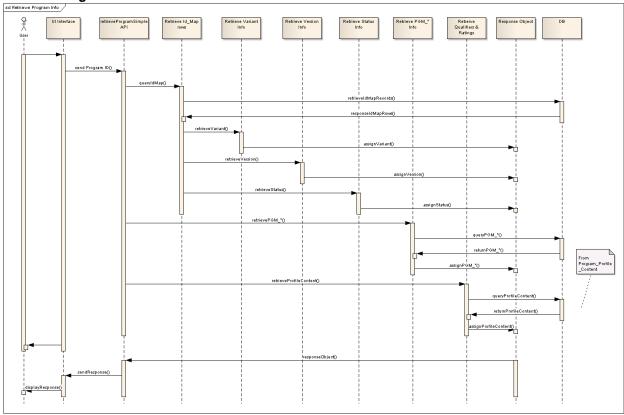
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2.7.3 Class Diagrams



2.7.4 Sequence Diagrams

Retrieve Program Info



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2.7.5 Core Components

The following core components are created:

- ProgramServiceImpl.java Contains the Restful service available to use.
- ProgramHelper.java Helper class.
- ProgramDAO.java Interface.
- ProgramDAOImpl.java Compose Program object.
- CreateObjectDAO.java Interface.
- CreateObjectDAOImpl.java Generic class to create the Program object.
- **ProgramUtils.java** Class that contains useful methods.
- ProfileContentDAO.java Interface.
- ProfileContentDAOImpl.java Class to manage Qualifiers & Ratings for Profile Content Table.
- QualifierDAO.java Interface.
- QualifierDAOImpl.java Class to handle Qualifiers.
- **PgmTitle.java** Class for PGM Title table.
- PgmDescription.java Class for PGM Description table.
- **PgmGenre.java** Class for PGM Genre table.
- PgmCredits.java Class for PGM Credits table.
- PgmSportsInfo.java Class for PGM Sports Info table.
- PgmTrailer.java Class for PGM Trailer table.
- Pgm*.java Class for rest of PGM tables.

2.7.6 Test Cases

- Retrieve Program Information
 - o Provide Program, Variant & Version IDs as part of the URL service.
 - Invoke retrieveProgramInfo API.
 - Retrieve Program Variant, Version & Status info.
 - o Retrieve all PGM_* info about the Program such as Title, Description, Genre, etc.
 - Retrieve Qualifiers and Ratings [Schedule Ratings].
 - o Build Response Object.
 - Validate Response Object.

2.7.7 Request Action

The following URL may be used to retrieve Program Information: http://host:port/ProgramTMS/resources/program/programInfo/{programId}&{variantId}&{versionId}

PARAMETER	DESCRIPTION
{programId}	Valid Program Id – Alphanumeric value.
{variantId}	Valid Variant Id – Numeric value.
{versionId}	Valid Version Id – Numeric value.

Example:

http://host:port/ProgramTMS/resources/program/programInfo/ SH005000010000&0&0

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Retrieve Program Info with ACTIVE status or latest NEW status.

The following URL will retrieve ONE and ONLY ONE Program/Variant object, in case there are several versions available. The purpose of this, it's to retrieve ONLY the object with ACTIVE status [High Priority over other objects with NEW status] or the latest object NEW status in case there is NO object with ACTIVE status present.

Example:

http://host:port/ProgramTMS/resources/program/programInfo/ SH005000010000&0&-3

HTTP Headers

The following HTTP Headers are required to complete Request process.

HTTP HEADER	VALUE
Content-Type	application/json
Accept	application/json

HTTP Method

The Request Action needs to define a HTTP Get method.

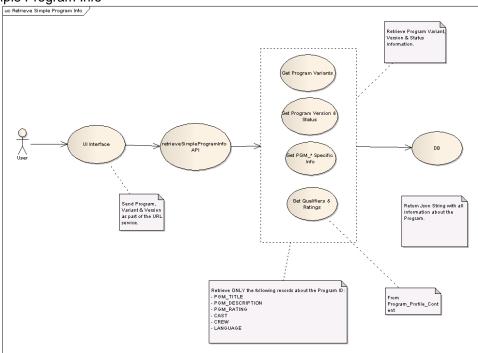
2.7.8 Response Action

The following file describes a Response Object as example: http://host:port/ProgramTMS/

2.8 Retrieve Program Information (Simple model)

2.8.1 Use Case Diagrams

Retrieve Simple Program Info



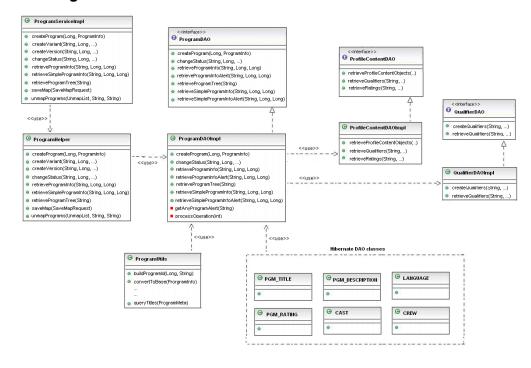
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2.8.2 Tables

ID_MAP & PGM_* tables

It will query ID_MAP table and ONLY the following information PGM_TITLE, PGM_DESCRIPTION, PGM_RATING, CAST, CREW, LANGUAGE & PROFILE_CONTENT.

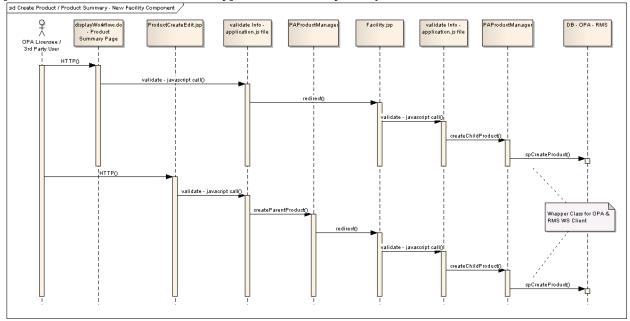
2.8.3 Class Diagrams



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2.8.4 Sequence Diagrams

[Create Product - Product Summary] -- Create Facility Component



2.8.5 Core Components

The following core components are created:

- **ProgramServiceImpl.java** Contains the Restful service available to use.
- **ProgramHelper.java** Helper class.
- ProgramDAO.java Interface.
- **ProgramDAOImpl.java** Compose Program object.
- CreateObjectDAO.java Interface.
- CreateObjectDAOImpl.java Generic class to create the Program object.
- **ProgramUtils.java** Class that contains useful methods.
- ProfileContentDAO.java Interface.
- ProfileContentDAOImpl.java Class to manage Qualifiers & Ratings for Profile Content Table.
- QualifierDAO.java Interface.
- QualifierDAOImpl.java Class to handle Qualifiers.
- **PgmTitle.java** Class for PGM Title table.
- PgmDescription.java Class for PGM Description table.
- PgmRating.java Class for PGM Genre table.
- PgmCredits.java Class for PGM Credits table for [CAST & CREW].

2.8.6 Test Cases

- Retrieve Program Information
 - Provide Program, Variant & Version IDs as part of the URL service.
 - Invoke retrieveSimpleProgramInfo API.
 - Retrieve Program Variant, Version & Status info.
 - Retrieve ONLY Title, Description, Cast, Crew & Language info.
 - Retrieve Qualifiers and Ratings [Schedule Ratings].
 - Build Response Object.
 - Validate Response Object.

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2.8.7 Request Action

The following URL may be used to retrieve Simple Program Information: http://host:port/ProgramTMS/resources/program/programSimpleInfo/{programId}&{variantId}&{versionId}

PARAMETER	DESCRIPTION
{programId}	Valid Program Id – Alphanumeric value.
{variantId}	Valid Variant Id – Numeric value.
{versionId}	Valid Version Id – Numeric value.

Example:

http://host:port/ProgramTMS/resources/program/programSimpleInfo/ SH005000010000&0&0

Retrieve Simple Program Info with ACTIVE status or latest NEW status.

The following URL will retrieve ONE and ONLY ONE Program/Variant object, in case there are several versions available. The purpose of this, it's to retrieve ONLY the object with ACTIVE status [High Priority over other objects with NEW status] or the latest object NEW status in case there is NO object with ACTIVE status present.

Example:

http://host:port/ProgramTMS/resources/program/programSimpleInfo/ SH005000010000&0&-3

HTTP Headers

The following HTTP Headers are required to complete Request process.

HTTP HEADER	VALUE
Content-Type	application/json
Accept	application/json

HTTP Method

The Request Action needs to define a HTTP Get method.

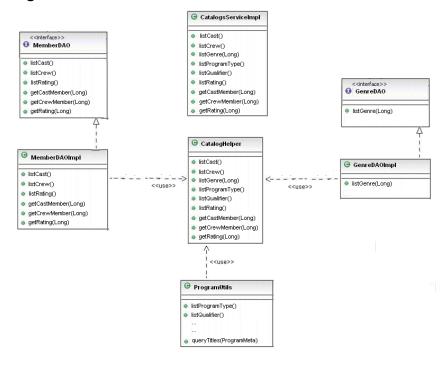
2.8.8 Response Action

The following file describes a Response Object as example: http://host:port/ProgramTMS/

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2.9 Listing Catalogs

2.9.1 Class Diagrams



2.9.2 Core Components

The following core components are created:

- CatalogServiceImpl.java Contains the Restful service available to use.
- CatalogHelper.java Helper class.
- MemberDAO.java Interface.
- MemberDAOImpl.java Generic class to retrieve Cast, Crew & Rating objects.
- ProgramUtils.java Class that contains useful methods like to retrieve Program Type & Qualifier records.
- GenreDAO.java Interface.
- GenreDAOImpl.java Generic class to retrieve Genre object.

2.9.3 Response Action

The following file describes a Response Object as example:

List Cast

http://host:port/ProgramTMS/

List Crew

http://host:port/ProgramTMS/

List Genre

http://host:port/ProgramTMS/

List Program Type

http://host:port/ProgramTMS/

List Rating

http://host:port/ProgramTMS/

List Qualifier

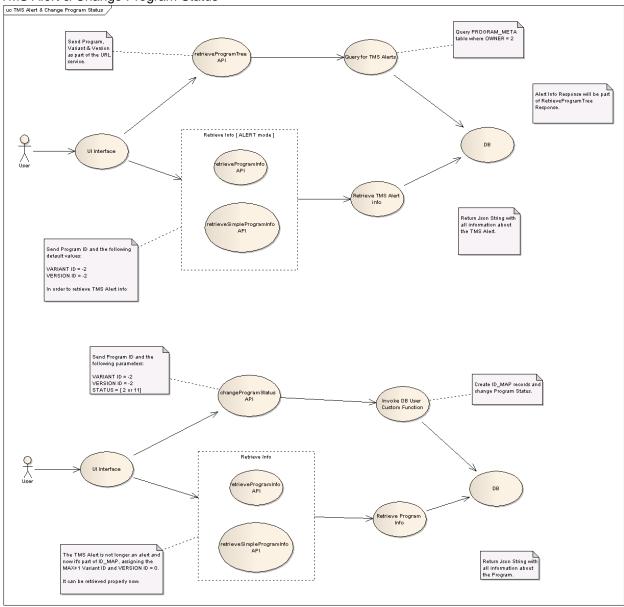
http://host:port/ProgramTMS/

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2.10 TMS Alert & Change Program Status

2.10.1 Use Case Diagrams

TMS Alert & Change Program Status



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2.10.2 Tables

TMS ALERT FOUND.

Id_Map

Below is a snapshot of how the table will look like when TMS Alert is not part of it.

ID_MAP_REC	ROOT_ID	PROGRAM_ID	VARIANT_ID	STATUS	PROGRAM_VERSION	PGM_META_ID	OWNER	PPRFID

Id_Map_Log

Below is a snapshot of how the table will look like when TMS Alert is not part of it.

ID	ID_MAP_REC	USER_ID	MODIFY_DATE

Program_Meta

Below is a snapshot of how the table will look like after a TMS ALERT is present.

PGM_META_ID	VERSION	PROGRAM_ID	LANG_ID	ROOT_ID	OWNER	TYPE	 ADULT
3382228	0	SH005081010000	1	NULL	2	5	 NULL
3382229	0	SH005081010000	2	NULL	2	5	 NULL

NOW TMS ALERT IS EITHER REVIEWED OR APPROVED

Id_Map

Below is a snapshot of how the table will look like after a new version is created.

ID_MAP_REC	ROOT_ID	PROGRAM_ID	VARIANT_ID	STATUS	PROGRAM_VERSION	PGM_META_ID	OWNER	PPRFID
699380	NULL	SH005081010000	0	3	0	3382201	1	1281
699381	NULL	SH005081010000	0	3	0	3382202	1	1281
699415	NULL	SH005081010000	1	11	0	3382228	1	Null
699416	NULL	SH005081010000	1	11	0	3382229	1	Null

Id_Map_Log

Below is a snapshot of how the table will look like after a new version is created.

ID	ID_MAP_REC	USER_ID	MODIFY_DATE
23915	699415	50	21-FEB-12 17.15.24
23916	699416	50	21-FEB-12 17.15.25

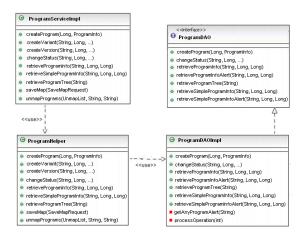
Program_Meta

Below is a snapshot of how the table will look like after a new version is created.

PGM_META_ID	VERSION	PROGRAM_ID	LANG_ID	ROOT_ID	OWNER	TYPE	 ADULT
3382228	0	SH005000210000	1	NULL	2	5	 NULL
3382229	0	SH005000210000	2	NULL	2	5	 NULL

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2.10.3 Class Diagrams



2.10.4 Core Components

The following core components are created:

- ProgramServiceImpl.java Contains the Restful service available to use.
- **ProgramHelper.java** Helper class.
- ProgramDAO.java Interface.
- ProgramDAOImpl.java Compose Program object.
- ProgramUtils.java Class that contains useful methods.

2.10.5 Test Cases

- TMS Alert & Change Program Status
 - Provide Program to invoke retriveProgramTree API.
 - Display Variant(s) & Version(s) related to the Program ID.
 - Display basic ALERT info as part of the Response object.
 - Retrieve ALERT info [Complete] by invoking retrieveProgramInfo API passing ProgramID, VariantID = -2 & VersionID = -2 parameters.
 - In order to get ALERT as part of ID_MAP, invoke changeProgramStatus API by passing ProgramID, Status = [2 or 11], VariantID = -2 & VersionID = -2 parameters.
 - ALERT is turn off now and it's part of ID_MAP.
 - Invoke retrieveProgramTree API to confirm that the MAX+1 VARIANT ID value is the ALERT.

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2.10.6 Request & Response Action

Retrieve Program Tree in order to find any TMS Alert.

The following URL may be used to retrieve Program Tree Information:

Example Request:

http://host:port/ProgramTMS/resources/program/retreiveProgramTree/programId=SH005081010000

Example Response [Alert found]:

```
"programId": "SH005081010000",
   "tmsId": "SH005081010000",
  "programTypeId": 5,
  "programTypeDesc": "Series",
   "programPrefixTypeId": 5,
  "programPrefixTypeDesc": "SH",
  "variants":
         "variantId": 0,
        "variantDesc": "This variant for Super Mario Bros",
         "versions": [
                               {
            "versionId": 0,
            "description": "Version : 0",
           "statusId": 1,
           "statusName": "NEW",
            "version": []
        } ]
     },
        "variantId": 1,
        "variantDesc": "This variant 1 for The Legend of Zelda",
         "versions": [
                               {
            "versionId": 0,
           "description": "Version : 0",
           "statusId": 3,
            "statusName": "ACTIVED",
            "version": []
        } ]
     }
   "alert":
              {
     "variantId": 2,
     "versionId": 0,
     "statusId": 1,
     "statusName": "NEW",
     "pgmMetaId":
        3443961,
        3443962
     1
} ]
```

Retrieve Program Information about the TMS Alert.

The following URL may be used to retrieve Program Information:

Example Request:

http://host:port/ProgramTMS/resources/program/programInfo/ SH005000010000&-2&-2

Important

In order to retrieve TMS Alert Info Variant ID = -2 Version ID = -2

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Change TMS Alert status to either REVIEWED or APPROVED.

The following URL may be used to change TMS Alert status to either REVIEWED or APPROVED:

Example Request:

http://host:port/ProgramTMS/resources/program/changeProgramStatus/programId= SH005000010000&variantId=-2&versionId=-2&statusId=11&userId=50

Example Response:

```
{
   "statusCode": 0,
   "statusDescription": "OK completed"
}
```

Retrieve Program Tree in order to identify TMS Alert as part of the Program Tree.

The following URL may be used to retrieve Program Tree Information and the TMS Alert is not longer available:

Example Request:

http://host:port/ProgramTMS/resources/program/retreiveProgramTree/programId=SH005081010000

Example Response [Alert is not longer available]:

```
"programId": "SH005081010000",
"tmsId": "SH005081010000",
"programTypeId": 5,
"programTypeDesc": "Series",
"programPrefixTypeId": 5,
"programPrefixTypeDesc": "SH",
"variants":
       "variantId": 0,
"variantDesc": "This variant for Super Mario Bros",
       "versions": [
           "versionId": 0,
          "description": "Version : 0",
          "statusId": 1,
"statusName": "NEW",
          "version": []
       } ]
   },
       "variantId": 1,
       "variantDesc": "This variant 1 for The Legend of Zelda",
       "versions": [
           "versionId": 0,
          "description": "Version : 0",
          "statusId": 3,
"statusName": "ACTIVED",
          "version": []
       } ]
       "variantId": 2,
       "variantDesc": "Variant : 2",
       "versions": [
          "versionId": 0,
          "description": "Version : 0",
          "statusId": 11,
          "statusName": "APPROVED",
           "version": []
      }]
   }
"alert": null
```

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2.11 Update Variant Name

2.11.1 Tables

Id_Map [Before Update]

Below is a snapshot of how the table will look like before updating variant name.

ID	PROGRAM_ID	VARIANT_ID	DESCRIPTION
699380	SH005000210000	1	This is my first Variant

Id_Map [After Update]

Below is a snapshot of how the table will look like after updating variant name.

ID	PROGRAM_ID	VARIANT_ID	DESCRIPTION
699380	SH005000210000	1	This super variant is the best

2.11.2 Core Components

The following core components are created:

- ProgramServiceImpl.java Contains the Restful service available to use.
- **ProgramHelper.java** Helper class.
- VariantDAO.java Interface.
- VariantDAOImpl.java Generic class to create the Program object.
- **ProgramUtils.java** Class that contains useful methods.

2.11.3 Test Cases

- Update Variant Name.
 - o Retrieve Variant Name Information
 - Build Json Object
 - o Post Json Object into updateVariantName API.
 - o Complete update process.
 - Log process.
 - Response process as completed.

2.11.4 Request Action

The following URL may be used to create a program:

http://host:port/ProgramTMS/resources/program/updateVariantName/programId={programId}&variantId={variantId} &userId={userId}&variantName={variantName}

PARAMETER	DESCRIPTION
{programId}	Valid Program Id – Alphanumeric value.
{variantId}	Valid Variant Id – Numeric value.
{userId}	Valid User Id – Numeric value.
{variantName}	Variant Name – Alphanumeric value.

Example:

http://host:port/ProgramTMS/resources/program/updateVariantName/programId=SH005000010000&variantId=0&use rId=50&variantName=This_super_variant

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HTTP Headers

The following HTTP Headers are required to complete Request process.

HTTP HEADER	VALUE
Content-Type	application/json
Accept	application/json

HTTP Method

The Request Action needs to define a HTTP Post method.

2.11.5 Response Action

The following file describes a Response Object as example:

```
"statusCode": 0,
  "statusDescription": "OK completed"
}
```

2.12 Update IMDB

2.12.1 Tables

IMDB [Before Update]

Below is a snapshot of how the table will look like before updating Imdb info.

ID	PROGRAM_ID	IMDB_ID	DESCRIPTION	 IMDB_URL
21	SH005000210000	tt0111161	The Shawshank Redemption	 3382201

IMDB [After Update]

Below is a snapshot of how the table will look like before updating Imdb info.

ID	PROGRAM_ID	IMDB_ID	DESCRIPTION		IMDB_URL
21	SH005000210000	tt0111986	The Legend of Zelda	l	33825896

2.12.2 Core Components

The following core components are created:

- **ProgramServiceImpl.java** Contains the Restful service available to use.
- **ProgramHelper.java** Helper class.
- **ProgramDAO.java** Interface.
- **ProgramDAOImpl.java** Compose Program object.

2.12.3 Test Cases

- Update IMDB.
 - o Retrieve IMDB Information
 - Build Json Object
 - o Post Json Object into updateImdb API.
 - o Complete update process.
 - Log process.
 - Response process as completed.

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2.12.4 Request Action

The following URL may be used to create a program: http://host:port/ProgramTMS/resources/program/updateImdb/userId={userId}

PARAMETER	DESCRIPTION
{userId}	Valid User Id – Numeric value.

Example:

http://host:port/ProgramTMS/resources/program/updateImdb/userId=50

HTTP Headers

The following HTTP Headers are required to complete Request process.

HTTP HEADER	VALUE
Content-Type	application/json
Accept	application/json

HTTP Method

The Request Action needs to define a HTTP Post method.

Request Object

The following file describes a Request Object as example:

```
"programId" : "SH005000410000",
   "imdbId" : "tt0103210",
   "imdbUrl" : "http://www.imdb.com/title/tt0103210/",
   "description" : "The Legend of Zelda"
}
```

2.12.5 Response Action

The following file describes a Response Object as example:

```
{
   "statusCode": 0,
   "statusDescription": "OK completed"
}
```

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2.13 Solr Searching

2.13.1 SQL queries

The following SQL queries will retrieve data to create SOLR indexes.

```
For Cast
```

```
select pn.id as castId,

(pn.first_Name || CASE WHEN pn.middle_Name IS NOT NULL THEN ', ' || pn.middle_Name ELSE '' END || CASE WHEN pn.last_Name IS NOT NULL THEN ', ' || pn.last_Name ELSE '' END) as castName, rn.role_name as castRole
In role_name as 'castRole from PGM_CREDIT pc inner join credit_role_cr on cr.id = pc.role_id and cr.role_type = 'cast' inner join role_name rn on rn.role_id = cr.id inner join pc.role_name rn on rn.role_id = pc.name_id MHERE '${dataimporter.request.clean}' != 'false' oR to_char(on.create_date, 'YYYY-MH-OD HH24!NITSS') > '${dataimporter.last_index_time}' group by pn.id, pn.first_Name, pn.middle_Name, pn.last_Name, rn.role_name, pn.create_date order by pn.first_Name, pn.middle_Name, pn.last_Name
For Crew
FOR CIEW
select pn.id as crewId,
(pn.first_Name || CASE WHEN pn.middle_Name IS NOT NULL THEN ', ' || pn.middle_Name ELSE '' END || CASE WHEN pn.last_Name IS NOT NULL THEN ', ' || pn.last_Name ELSE '' END) as crewName,
rn.role_name as crewRole
from PGM_CREDIT pc
inner join credit_role or on cr.id = pc.role_id and cr.role_type = 'crew'
inner join role_name rn on rn.role_id = cr.id
inner join person_name pn on pn.id = pc.name_id
WHENE: '$(detaimporter.request.clean)' != 'false'
OR to_char(pn.create_date, 'YYY-MH-DO HH24HIISS') > '$(dataimporter.last_index_time)'
group by pn.id, pn.first_Name, pn.middle_Name, pn.last_Name, rn.role_name, pn.create_date
order by pn.first_Name, pn.middle_Name, pn.last_Name
For Series & Shows
select pgm_meta_id as shPgmid, title as shTitle, pgm_meta_id as shId, root_id as shRootid, program_id as shProgramId
         select pgm_meta_id, title, program_id, root_id, row_number() over (order by pgm_meta_id ASC) rn
          from (
              select pm.pgm_meta_id, pm.root_id, title, pm.id as program_id
               from pgm_title pt
              inner join program_meta pm on pm.pgm_meta_id = pt.pgm_meta_id and pm.owner = 1
              and SUBSTR(pm.ID,0,2) = 'SH'
and pt.text_type = 'full'
              WHERE '${dataimporter.request.clean}' != 'false'
              OR to_char(pt.create_date,'YYYY-MM-DD HH24:MI:SS') > '${dataimporter.last_index_time}'
For Episodes
 select id as esId, title as esTitle, create_date from
    (
        select pm.id, pt.Title, pt.create_date from pgm_title pt
       inner join program_meta pm on pm.pgm_meta_id = pt.pgm_meta_id and pm.owner = 1
       inner join id_map im on im.program_id = pm.id
        where pt.text_size = 128
       group by pm.id, pt.Title, pt.create_date
    UNION ALL
        select pm.id, ep.episode_title as title, pm.modify_date as create_date from pgm_episodeinfo ep
        inner join program_meta pm on pm.pgm_meta_id = ep.pgm_meta_id and pm.owner = 1
       inner join id_map im on im.program_id = pm.id
       group by pm.id, ep.episode_title, pm.modify_date
 WHERE '${dataimporter.request.clean}' != 'false'
 OR to_char(create_date, 'YYYY-MM-DD HH24:MI:SS') > '${dataimporter.last_index_time}
For Teams
 select team_brand_id as teamId, team_name as teamName from team_name
WHERE '${dataimporter.request.clean}' != 'false'
OR to_char(create_date, 'YYYY-MM-DD HH24:MI:SS') > '${dataimporter.last_index_time}'
order by team_brand_id
For Venues
 select venue_brand_id as venueId, venue_name as venueName from venue
 WHERE '${dataimporter.request.clean}' != 'false'
 OR to_char(create_date,'YYYY-MM-DD HH24:MI:SS') > '${dataimporter.last_index_time}'
 order by venue_brand_id
```

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For Actors, it returns the program(s) where the actor has acted.

2.13.2 Core Components

The following core components are created:

solr.xml - Defines core collection

```
<solr persistent="false":</p>
                 adminPath: RequestHandler path to manage cores.

If 'null' (or absent), cores will not be manageable via request handler
 - <cores adminPath="/admin/cores":
    </core>
      - <core name="core1" instanceDir="core1"
               cproperty name="dataDir" value="core1/data" />
      - <core name="core2Cast" instanceDir="core2Cast"</p>
                </core>
      - <core name="core3Crew" instanceDir="core3Crew">
     cproperty name="dataDir" value="core3Crew/data" />
           </core>
      - <core name="core4Series" instanceDir="core4Series"
               </core>
      - <core name="core5Episodes" instanceDir="core5Episodes">
               cproperty name="dataDir" value="core5Episodes/data" />
      - <core name="core6Team" instanceDir="core6Team"</p>
               cproperty name="dataDir" value="core6Team/data" />
           </core>
      - <core name="core7Venue" instanceDir="core7Venue":
               </core>
      - <core name="core8CastAssociated" instanceDir="core8CastAssociated">
               cproperty name="dataDir" value="core8CastAssociated/data" //property name="dataDir" value="core8CastAssociated/dataDir" value="core8CastAssociated/d
      - <core name="core9ALSPrograms" instanceDir="core9ALSPrograms">
               cproperty name="dataDir" value="core9ALSPrograms/data"
           </core>
      </cores>
  </solr>
```

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SOLR core – solr

± 🚞 core0

🛨 🧰 core1

- conf/data-config.xml Describes JDBC Data source, SQL Query and fields taken for indexing.
- conf/schema.xml Describes field types & unique ID.
- conf/solrconfig.xml Defines data-config.xml file path.

2.13.3 Request Action

The following file describes a Request Object as example:

For Cast

http://host:port/solr/core2Cast/select?q=castName:Alex*&rows=20&wt=json

For Crew [Any role]

http://host:port/solr/core3Crew/select?q=crewName:Alex*&rows=20&wt=json

For Crew [Director Role]

http://host:port/solr/core3Crew/select?q=crewName:A*&fq=crewRole:Director&rows=20&wt=json

For Crew [Producer Role]

http://host:port/solr/core3Crew/select?q=crewName:A*&fq=crewRole:Producer&rows=20&wt=json

For Series & Shows

http://host:port/solr/core4Series/select?q=shTitle:Bo*&rows=20&wt=json

For Episodes

http://host:port/solr/core5Episodes/select?q=esTitle:Frie*&rows=20&wt=json

For Teams

http://host:port/solr/core6Team/select?q=teamName:D*&rows=20&wt=json

For Venues

http://host:port/solr/core7Venue/select?q=venueName:D*&rows=20&wt=json

For Actors, it returns the program(s) where the actor has acted.

http://host:port/solr/core8CastAssociated/select?q=pald:12087&rows=20&wt=json

For All Programs available

http://host:port/solr/core9ALSPrograms/select?q=title:Do*&rows=20&wt=json

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3 Issues Log

No.	Status	Date	Originator	Topic	Description
1	Open	08/04	HL	Topic1	Description1

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