CodeBlueDev.PluralSight.Core.Models

A .NET library containing PluralSight domain models that can be utilized by other .NET projects.

PluralSight changed the way their API works in what we can only assume is an effort to obfuscate the API or perhaps reuse the base urls in a more dynamic way. Once a user has logged in to the PluralSight website, the urls are sent to the client in JavaScript form. By inspecting the source the following base urls can be found:

```
API_LEARNER_ROOT = "//app.pluralsight.com/learner"
API_FEATURES_ROOT = "https://app.pluralsight.com/features/api"
API_CONTENT_ROOT = "https://app.pluralsight.com/learner/content"
API_USER_ROOT = "https://app.pluralsight.com/learner/user"
API_SEARCH_ROOT = "/search/proxy"
LIVEFYRE_SITE_ID = ""
ANDROID_APP_ID = "com.pluralsight"
MONOLITH_BASE_URL = "app.pluralsight.com"
```

By inspecting some of the other main.js files that are included in the HTML these base Urls are used to generate the API urls. Their respective purposes can be gathered from the key associated to them.

```
courses:API_LEARNER_ROOT+"/courses",
recentCourses:API_CONTENT_ROOT+"/courses/recent",
popularCourses:API_CONTENT_ROOT+"/courses/popular",
recommendedCoursesForUser:API_USER_ROOT+"/courses/recommended",
recommendedCoursesForCourse:API_CONTENT_ROOT+"/courses/:id/recommended",
course:API_LEARNER_ROOT+"/courses/:courseId",
courseExerciseFiles:API_LEARNER_ROOT+"/courses/:courseId/exercise-files",
courseTranscript:API_LEARNER_ROOT+"/courses/:courseId/transcript",
relatedCourses:API_LEARNER_ROOT+"/courses/:courseId/related",
userCourseGrants:API_LEARNER_ROOT+"/u/courses/:courseId/grants",
userCourseRating:API_LEARNER_ROOT+"/u/courses/:courseId/rating",
userCourseProgress:API_USER_ROOT+"/courses/:courseId/progress",
userHistoryV3:API_USER_ROOT+"/courses/history",
userBookmarks:API_LEARNER_ROOT+"/u/bookmarks",
userBookmarksNew:API_USER_ROOT+"/bookmarks",
userBookmark:API_LEARNER_ROOT+"/u/bookmarks/:contentId",
userChannels:API_USER_ROOT+"/channels",
userChannelContent:API_USER_ROOT+"/channels/:channelId/content",
userPlaylists:API_LEARNER_ROOT+"/u/playlists",
userPlaylistsForCourse:API_LEARNER_ROOT+"/u/courses/:courseId/playlists",
userFeatures:API_FEATURES_ROOT+"/v1/users/:userId",
userSkillPathHistory:API_USER_ROOT+"/skill-paths/history",
learningChecks:API_USER_ROOT+"/courses/:courseId/learning-checks",
courseContent:API_CONTENT_ROOT+"/courses/:courseId",
authors:API_LEARNER_ROOT+"/authors",
author:API_LEARNER_ROOT+"/authors/:authorId",
search:API_SEARCH_ROOT,
autoComplete:API_LEARNER_ROOT+"/search/auto-complete",
```

In this case, the models were derived from the `courseContent:API_CONTENT_ROOT+"/courses/:courseId"` url. For the models used in this document the course url would look something like: https://app.pluralsight.com/learner/content/courses/windows-forms-best-practices.

To find more information about the models or their properties select an item below.

Contents

Author

An Author model will usually be created via deserialization of the Course JSON response. Multiple Author models can be included in the JSON response but the properties for each Author will remain the same.

Author Properties

Property	Description
Id	The web friendly value that represents the PluralSight Author's name. Usually consists of the Author's first and last name separated by a '-'. The value is often used in PluralSight web requests (such as viewing all videos by an Author).
FirstName	The Author's first name.
LastName	The Author's last name.
DisplayName	The Author's display name.

Author Sample JSON

```
{
    "id":"mark-heath",
    "firstName":"Mark",
    "lastName":"Heath",
```

```
        "displayName":"Mark Heath"
    }
}
```

Course

The top level object. A Course model will be created via deserialization. Only a single Course model should be contained in the JSON response.

Course Properties

Property	Description
Id	The id of the PluralSight Course. Typically is the hyphen separated version of the course name.
PublishedOn	The date the PluralSight Course was published on. The date PluralSight released the course.
UpdatedOn	The date the PluralSight Course was last updated on.
Title	The title of the PluralSight Course.
ShortDescription	The short description of the PluralSight Course.
Description	The description of the PluralSight Course.
Level	The PluralSight Course level.
Duration	The duration of the PluralSight Course.
PopularityScore	The popularity score of the PluralSight Course.
HasTranscript	A value indicating whether the PluralSight Course has a transcript.
HasAssessment	A value indicating whether the PluralSight Course has an assessment.
HasLearningCheck	A value indicating whether the PluralSight Course has a learning check.
PlayerUrl	The PluralSight player url used to launch the web player for the PluralSight Course.
SkillPaths	The skill paths the PluralSight Course is a part of.
Retired	The retired status of the PluralSight Course including a reason and replacement course.
Rating	The rating of the PluralSight Course.
Modules	The Course Modules associated with the PluralSight Course.
CourseImage	The PluralSight Course image(s).
Authors	The PluralSight Course Author(s).
Audiences	The intended audience(s) for the PluralSight Course.

Course Sample JSON

```
{
  "id":"windows-forms-best-practices",
  "publishedOn":"2014-09-27T00:00:00Z",
  "updatedOn":"2014-09-27T00:00:00Z",
  "title":"Windows Forms Best Practices",
  "shortDescription":"This course demonstrates several best practices for Windows Forms application development by gradually impro
  "description":"This course demonstrates several best practices for Windows Forms development by taking a demo application and gr
  "level":"Intermediate",
  "duration":"PT4H35M57S",
  "popularityScore":257732,
  "hasTranscript":true,
```

```
  "hasAssessment":true,
  "hasLearningCheck":true,
  "playerUrl":"/player?course=windows-forms-best-practices&author=mark-heath&name=windows-forms-best-practices-m1&clip=0&mode=live
  "audiences":[
    "software-development"
  ]
}
```

Course Clip

A Course Clip model will be created via deserialization of the Course Module JSON response. Multiple Course Clip models can be included in the JSON response but the properties for each Course Clip will remain the same.

Course Clip Properties

Property	Description
Id	The id of the PluralSight Course Clip. Usually a combination of the hyphen separated course id, author, module id, and course clip title.
Title	The title of the PluralSight Course Clip.
Duration	The duration of the PluralSight Course Clip.
PlayerUrl	The PluralSight player url used to launch the web player for the PluralSight Course Clip.

Course Clip Sample JSON

```
{
  "id":"windows-forms-best-practices|mark-heath|windows-forms-best-practices-m1|windows-forms-best-practices-m1-01",
  "title":"Module Introduction",
  "duration":"PT57.051S",
  "playerUrl":"/player?course=windows-forms-best-practices&author=mark-heath&name=windows-forms-best-practices-m1&clip=0&mode=live
}
```

Course Image

A Course Image model will be created via deserialization of the Course JSON response. Only a single Course Image model should be contained in the JSON response.

Course Image Properties

Property	Description
CourseListUrl	The course list image url.
DefaultUrl	The default image url.
SmallUrl	The small image url.

Course Image Sample JSON

```
{
  "courseListUrl":"//pluralsight-res.cloudinary.com/image/upload/w_120/pluralsight-static/course-images/play-by-play-csharp-q-and-
  "defaultUrl":"//pluralsight-res.cloudinary.com/image/upload/w_1200/pluralsight-static/course-images/play-by-play-csharp-q-and-a-
  "smallUrl":"//pluralsight-res.cloudinary.com/image/upload/w_400/pluralsight-static/course-images/play-by-play-csharp-q-and-wit
}
```

Course Level

The Course Level enumeration will typically be used during the deserialization of the Course JSON response. It has three possible values of Beginner, Intermediate, and Advanced.

Course Level Sample JSON

```
{
    "level":"Intermediate"
}
```

Course Module

A Course Module model will be created via deserialization of the Course JSON response. Multiple Course Module models can be included in the JSON response but the properties for each Course Module will remain the same.

Course Module Properties

Property	Description
Id	The id of the PluralSight Course Module. Usually a combination of the hyphen separated course id, author, and module id.
Title	The title of the PluralSight Course Module.
Duration	The duration of the PluralSight Course Module.
PlayerUrl	The PluralSight player url used to launch the web player for the PluralSight Course Module.
Clips	The PluralSight Course Clip(s) associated with the Course Module.

Course Module Sample JSON

```
{
  "id":"windows-forms-best-practices|mark-heath|windows-forms-best-practices-m1",
  "title":"Creating Excellent Windows Forms Applications",
  "duration":"PT27M",
  "playerUrl":"/player?course=windows-forms-best-practices&author=mark-heath&name=windows-forms-best-practices-m1&clip=0&mode=live
}
```

Course Rating

A Course Rating model will be created via deserialization of the Course JSON response. Only a single Course Rating model should be contained in the JSON response.

Course Rating Properties

Property	Description
Average	The average rating for the course.
RatersCount	The number of users that have rated the course.

Course Rating Sample JSON

```
{
  "average":4.6,
```

```
    "ratersCount":298
}
```

Retired

A Retired model will be created via deserialization of the Course JSON response. Only a single Retired model should be contained in the JSON response.

Retired Properties

Property	Description
IsRetired	A value indicating whether a PluralSight Course is retired.
Reason	The reason a PluralSight Course is retired.
ReplacementId	The replacement PluralSight Course Id that replaces the current PluralSight Course.

Retired Sample JSON

```
{
  "isRetired":false,
  "reason":null,
  "replacementId":null
}
```

Skill Path

A Skill Path model will be created via deserialization of the Course JSON response. Multiple Skill Path models can be included in the JSON response but the properties for each Skill Path will remain the same.

Skill Path Properties

Property	Description
Id	The Guid id of the PluralSight Skill Path.
Title	The title of the PluralSight Skill Path.
Retired	A value indicating whether the PluralSight Skill Path is retired.
Url	The url of the PluralSight Skill Path.
UrlSlug	The url slug of the PluralSight Skill Path.
IconUrl	The icon url of the PluralSight Skill Path.

Skill Path Sample JSON

```
{
  "id":"aa6392b6-3da4-4698-8b48-b71f11af3213",
  "title":"C#",
  "retired":false,
  "url":"/paths/skills/csharp",
  "urlSlug":"csharp",
  "iconUrl":"https://pluralsight.imgix.net/paths/path-icons/csharp-e7b8fcd4ce.png"
}
```

Transcript

The top level object for Transcript Modules. This model is only a contain object to match the PluralSight JSON response. A Transcript model will be created via deserialization. Only a single Transcript model should be contained in the JSON response.

Transcript Properties

Property	Description
Modules	The transcript modules associated to the transcript.

Transcript Clip

A Transcript Clip model will be created via deserialization of the Transcript Module JSON response. Multiple Transcript Clip models can be included in the JSON response but the properties for each Transcript Clip will remain the same.

Transcript Clip Properties

Property	Description
Title	The title of the Course Module the Transcript is for.
PlayerUrl	The url of the Course Module the Transcript is for.
Segments	The Transcript Segment(s) associated with the Transcript Clip.

Transcript Clip Sample JSON

```
{
  "title": "Module Introduction",
  "playerUrl": "//app.pluralsight.com/player?course=windows-forms-best-practices&author=mark-heath&name=windows-forms-best-practic
  "segments":[
  ]
}
```

Transcript Module

A Transcript Module model will be created via deserialization of the Transcript JSON response. Multiple Transcript Module models can be included in the JSON response but the properties for each Transcript Module will remain the same.

Transcript Module Properties

Property	Description
Title	The title of the Course Module the Transcript is for.
PlayerUrl	The url of the Course Module the Transcript is for.
Clips	The Transcript Clip(s) associated with the Transcript Module.

Transcript Module Sample JSON

```
{
  "title": "Creating Excellent Windows Forms Applications",
  "playerUrl": "//app.pluralsight.com/player?course=windows-forms-best-practices&author=mark-heath&name=windows-forms-best-practic
  "clips": [
  ]
}
```

Transcript Segment

A Transcript Segment model will be created via deserialization of the Transcript Clip JSON response. Multiple Transcript Module models can be included in the JSON response but the properties for each Transcript Module will remain the same.

Transcript Segment Properties

Property	Description
Text	The transcript text at a given point in time.
DisplayTime	The display time where the transcript text occurs.

Transcript Segment Sample JSON

```
{
  "text": "Hi, my name's Mark Heath",
  "displayTime": 2.0
}
```

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