

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.

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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 Clip models can be included in the JSON

response but the properties for each 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": "http://pluralsight-res.cloudinary.com/image/upload/w_120/pluralsight-static/course-images/play-by-play-csharp-q-and-a-wit",
  "defaultUrl": "http://pluralsight-res.cloudinary.com/image/upload/w_1200/pluralsight-static/course-images/play-by-play-csharp-q-and-a-wit",
  "smallUrl": "http://pluralsight-res.cloudinary.com/image/upload/w_400/pluralsight-static/course-images/play-by-play-csharp-q-and-a-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"
}
```

Copyright

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