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 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 PluralSight HTML it can be seen how 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",
```

These values can also be determined somewhat by analyzing network traffic from the client and server.

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.co](https://app.pluralsight.com/learner/content/courses/windows-forms-best-practices)[m/learner/content/courses/windows-forms-best-practices](https://app.pluralsight.com/learner/content/courses/windows-forms-best-practices).

Transcript models were derived from the `courseTranscript:API_LEARNER_ROOT+"/courses/:courseId/transcript"` URL. For the models used in this document the course URL would look something like: [https://app.pluralsight.com/learner/courses/windows-](https://app.pluralsight.com/learner/courses/windows-forms-best-practices/transcript)[forms-best-practices/transcript](https://app.pluralsight.com/learner/courses/windows-forms-best-practices/transcript).

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. One or more Author models can be included in the Course JSON response but the properties for each Author model will remain the same.

Author Properties

Property	Description
AuthorId	The globally unique identifier for the PluralSight Author.
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).
Handle	The Author's handle.
FirstName	The Author's first name.
LastName	The Author's last name.
DisplayName	The Author's display name.

Author Sample JSON

```json
"authors": {
  "authorId": "75098b43-9787-43af-ab9d-a1994cede9a4",
  "id": "mark-heath",
  "handle": "mark-heath",
  "firstName": "Mark",
  "lastName": "Heath",
  "displayName": "Mark Heath"
}
```

Course

The top-level object for PluralSight course content. A Course model will be created via deserialization of the PluralSight Course JSON. 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.
CourseId	The globally unique identifier for the PluralSight Course.
PublishDate	The date the PluralSight Course was published on. The date PluralSight released the course.
UpdateDate	The date the PluralSight Course was last updated on.
DisplayDate	The date to display with the PluralSight Course.
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.
CourseImageUrl	The URL for the image used with the PluralSight Course.
PlayerUrl	The PluralSight player url used to launch the web player for the PluralSight Course.
IsLearningCheckAvailable	A value indicating whether the PluralSight Course has a learning check.
IsTranscriptAvailable	A value indicating whether the PluralSight Course has a transcript.
Rating	The rating of the PluralSight Course.
CourseImage	The PluralSight Course image.
Image	A PluralSight Course image.
Audiences	A collection of one or more intended audiences the PluralSight Course may appeal to.
Modules	The Course Modules associated with the PluralSight Course.
Authors	The PluralSight Course Author(s) associated with the PluralSight Course.
SkillPaths	The skill paths the PluralSight Course is a part of.

Course Sample JSON

```json
{
  "id": "windows-forms-best-practices",
  "courseId": "24f3e2ce-88bc-44f5-a9b7-3b0f326c3494",
  "slug": "windows-forms-best-practices",
  "publishedOn": "2014-09-27",
  "updatedOn": "2014-09-27",
  "displayDate": "2014-09-27",
  "title": "Windows Forms Best Practices",
  "shortDescription": "This course demonstrates several best practices for Windows Forms application development by gradually improving a demo application. Topics covered include resizing, layout, accessibility, maintainable code, localization, usability, testability, threading, exception handling, custom control creation, and interoperability.",
  "description": "This course demonstrates several best practices for Windows Forms development by taking a demo application and gradually improving it to improve the user experience and code quality. We'll see how you can improve the layout and resizing of your application, and how you can make it more accessible, usable, and navigable from the keyboard. We'll explore how to approach localization, exception handling, and threading. We'll also devote time to various patterns that will help you write more maintainable and testable code. Finally, we'll provide guidelines for creating your own custom controls, and see how you can interoperate other technologies such as hosting web and WPF content within a Windows Forms application.",
  "level": "Intermediate",
  "duration": "PT16562.2140000S",
  "rating": {
    ..
  },
  "popularityScore": 229685,
  "courseImageUrl": "https://pluralsight.imgix.net/course-images/windows-forms-best-practices-v1.jpg",
  "courseImage": {
    ..
  },
  "image": {
    ..
  },
  "audiences": [
    "software-development"
  ],
  "modules": [
    {
      ..
      "clips": [
        {
          ..
        },
        ..
      ]
    },
    ..
  ],
```

```
    "playerUrl": "/player?course=windows-forms-best-practices&author=mark-heath&name=windows-
  forms-best-practices-m1&clip=0&mode=live",
    "authors": [
      {
        ..
      }
    ],
    "skillPaths": [
      {
        ..
      }
    ],
    "hasLearningCheck": true,
    "hasTranscript": true
  }
```

Course Exercise Files

The Course Exercise Files associated with the PluralSight Course. This model is deserialized separately from the PluralSight Course.

Properties

Property	Description
ExerciseFilesUrl	The URL for the Course Exercise Files.

Course Exercise Files Sample JSON

```
{
  "exerciseFilesUrl": "http://s.pluralsight.com/course-materials/windows-forms-best-
practices/866AB96258/20140926213054/windows-forms-best-practices.zip?userHandle=8950de64-5ab8-
4b06-afc0-076d718589f4"
}
```

Course Level

The Course Level enumeration will typically be used during the deserialization of the Course JSON response. It has three possible values:

- `Beginner`
- `Intermediate`
- `Advanced` .

Course Level Sample JSON

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

Course Module

A Course Module model will be created via deserialization of the Course JSON response. One or more Course Module models can be contained in the Course JSON 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.
ModuleId	The globally unique identifier of the PluralSight Course Module.
DeprecatedId	The deprecated id of the PluralSight Course Module.
AuthorId	The globally unique identifier of the PluralSight Author.
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",
  "moduleId": "4617ec56-4a2b-4a4b-8e05-a82d558079e1",
  "deprecatedId": "mark-heath|windows-forms-best-practices-m1",
  "authorId": "75098b43-9787-43af-ab9d-a1994cede9a4",
  "title": "Creating Excellent Windows Forms Applications",
  "duration": "PT1620.7300000S",
  "playerUrl": "/player?course=windows-forms-best-practices&author=mark-heath&name=windows-
forms-best-practices-m1&clip=0&mode=live",
  "clips": [
    {
      ...
    },
    ..
  ]
}
```

Course Module 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 Module 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.
ClipId	The globally unique identifier for the PluralSight Module Clip.
DeprecatedId	The deprecated identifier for the PluralSight Module Clip.
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.
Ordering	The zero-based index order of the PluralSight Module Clip in the PluralSight Course Module.

Course Module Clip Sample JSON

```
{
  "id": "windows-forms-best-practices|mark-heath|windows-forms-best-practices-m1|windows-forms-best-practices-m1-01",
  "clipId": "d9b3e34e-7ddd-4201-a703-0145fbb689f7",
  "deprecatedId": "mark-heath|windows-forms-best-practices-m1|windows-forms-best-practices-m1-01",
  "title": "Module Introduction",
  "duration": "PT57.0510000S",
  "moduleTitle": "Creating Excellent Windows Forms Applications",
  "playerUrl": "/player?course=windows-forms-best-practices&author=mark-heath&name=windows-forms-best-practices-m1&clip=0&mode=live",
  "ordering": 0
}
```

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
}
```

Image

An Image model will at least be created via deserialization of the Course JSON response.

Image Properties

Property	Description
Alt	The alternate text for the image.
Url	The Url for the iamge.
IsDefault	The value indicating whether the image is the default image.

Image Sample JSON

```
{
  "alt": "Windows Forms Best Practices",
  "url": "https://pluralsight.imgix.net/course-images/windows-forms-best-practices-v1.jpg",
  "isDefault": false
}
```

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

Skill Path Sample JSON

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

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 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-practices-m1&clip=0&mode=live",
  "clips": [
  ]
}
```

Transcript Module Clip

A Transcript Module 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 Module 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 Module Clip Sample JSON

```
{
  "title": "Module Introduction",
  "playerUrl": "//app.pluralsight.com/player?course=windows-forms-best-practices&author=mark-
heath&name=windows-forms-best-practices-m1&clip=0&mode=live",
  "segments":[
  ]
}
```

Transcript Module Clip Segment

A Transcript Module Clip Segment model will be created via deserialization of the Transcript Module 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 Module Clip Segment Properties

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

Transcript Module Clip Segment Sample JSON

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

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