

# Naming conventions

## URI's

API URI's are based around resources. Actions are indicated with the use of HTTP Methods.

- Use nouns, not verbs
- Resources that are collections should be indicated using plural nouns  
e.g. `/pathways`
- Specific resource in collection is defined after collection (generally with *id*)  
e.g. `/pathways/{id}`
- Resources of which only one instance can exist should be indicated using singular noun  
e.g. `/pathways/{id}/favourite`
- Related/Linked resources are defined after specific resource (recursive - refer to above)  
e.g. `/pathways/{nodeId}/steps`, `/pathways/{nodeId}/steps/{stepId}`,  
`/pathways/{nodeId}/steps/{stepId}/progress`

Microsoft Documentation: [Organize the API around resources](#).

## Code

Decorate actions and controllers according to resource path and applicable version(s).

## Controllers

```
[ApiRoute("TrainingRequirements")]
public class TrainingRequirementsController : ControllerBase
{
    //code logic
}
```

## Actions

```
[ApiRoute("LearningPortal/Pathways/{nodeId:int}")]
public NodeStructure GetPathway(int nodeId)
{
    //code logic
}
```

```
[ApiRoute("LearningPortal/Pathways/{nodeId:int}/Favourite")]
```

```
public bool GetFavourite(int nodeId)
```

```
{  
    //code logic  
}
```

```
[ApiRoute("LearningPortal/Pathways/{nodeId:int}/Steps/{stepId:int}", AcceptedVersions = new[] { 1, 2 })]
```

```
public StepStructure GetPathwayStep(int nodeId, int stepId)
```

```
{  
    //code logic  
}
```

```
[ApiRoute("LearningPortal/Pathways/{nodeId:int}/Steps/{stepId:int}", StartingVersion = 3)]
```

```
public StepStructureV3 GetPathwayStepV3(int nodeId, int stepId)
```

```
{  
    //code logic  
}
```

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Revision #2

Created 17 September 2020 02:08:41 by Theuns Pretorius

Updated 25 September 2020 04:10:15