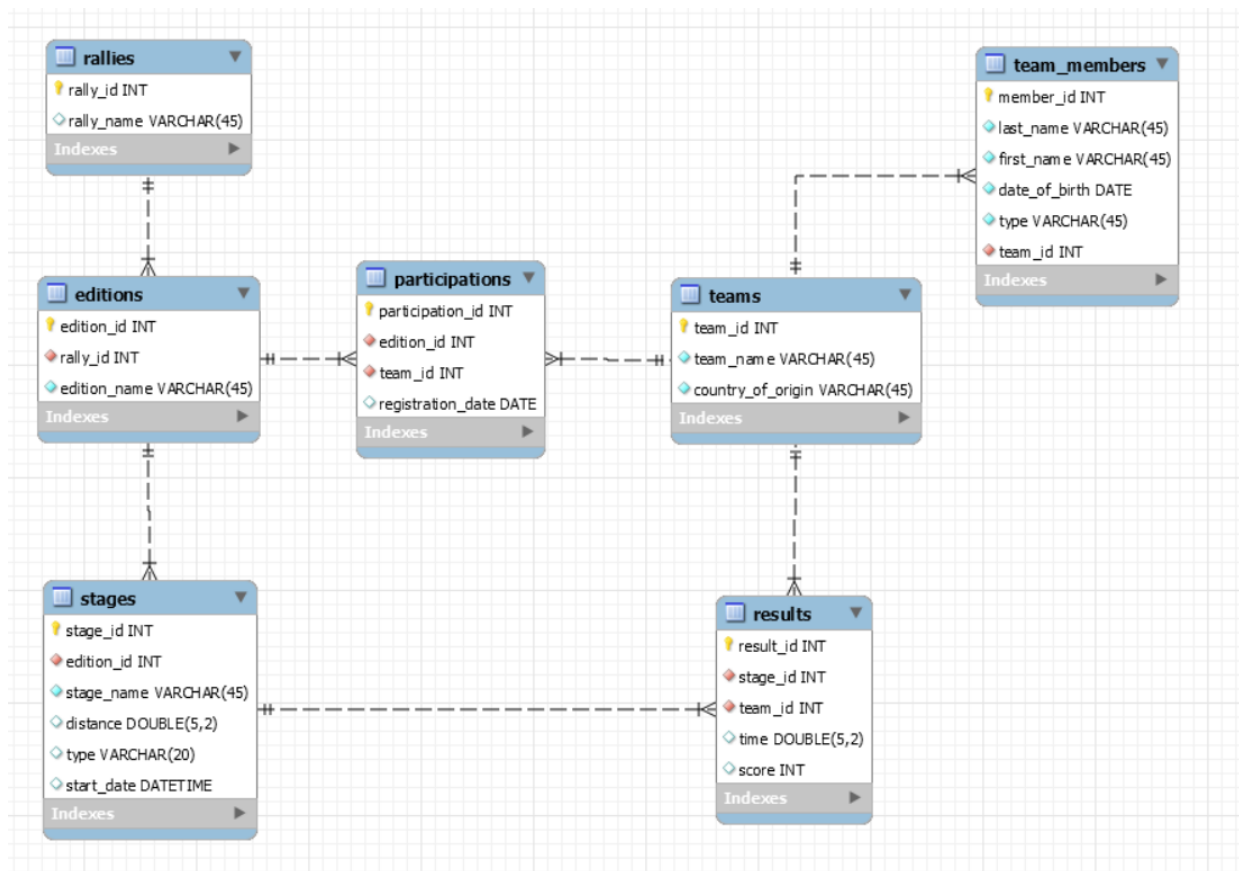


Rally Competition Java Project

Datorita interesului din ce in ce mai ridicat pentru competitii sportive de tip raliu, am decis sa implementez un model ce sa faciliteze utilizatorilor sa creeze noi competitii, sa vizualizeze detalii despre competitii existente, sa le actualizeze, sa si creeze echipe cu care sa participe la aceste competitii si unde, de asemenea, sa poata tine evidenta rezultatelor obtinute.

Aplicatia mea are la baza o serie de tabele ce permit manipularea datelor dupa cum am prezentat anterior. Diagrama conceptuala poate fi observata in imaginea urmatoare.



Astfel, avem entitatile:

- Rallies – retine id-ul raliului, precum si numele care este unic;
- Editions – retine editiile raliurilor, astfel o editie poate apartine unui singur raliu, iar un raliu poate avea mai multe editii;

- Stages – aceasta entitate retine informatii despre etapele asociate editiilor, astfel, ca si in cazul anterior, si aici se stabileste o relatie de tip 1:M, in sensul ca o etapa e asociata unei singure editii, in timp ce o editie are mai multe etape;
- Teams – retine informatii despre echipele definite in sistem, echipe ce pot participa la competitii;
- Team members – aceasta entitate retine informatii despre memebrii echipelor, un membru poate apartine unei singure echipe, combinatia de (last_name, first_name, date_of_birth) este privita ca o combinatie unica, iar valorile posibile pentru tipul unui membru sunt: driver,coDriver si staff;
- Participations – retine informatii despre participarea echipelor la diverse editii ale unor raliuri;
- Results – permite retinerea de informatii cu privire la rezultatele unei echipe la o anumita etapa, pe baza acestui tabel se poate calcula un clasament in ceea ce priveste o anumita editie a unui raliu.

Servicii

In continuare voi prezenta scopurile definite la nivelul fiecarui serviciu implementat in aplicatie.

RallyService se ocupa de:

- Administrarea adaugarii unui raliu cu sau fara editii si etape;
- Administrarea obtinerii editiilor unui raliu
- Administrarea modificarii numelui unui raliu
- Administrarea eliminarii unui raliu impreuna cu editiile si etapele aferente din sistem

EditionService se ocupa de:

- Administrarea adaugarii unei editii la un raliu cu sau fara etape
- Administrarea adaugarii de etape la o editie daca aceasta exista sau crearea editiei cu adaugarea etapelor la editia nou creata in sistem
- Administrarea obtinerii unei editii pe baza numelui si a numelui raliului caruia ii apartine
- Administrarea obtinerii tuturor editiilor unui raliu
- Administrarea obtinerii editiilor cu un nume dat, indiferent de raliuri

StageService se ocupa de:

- Administrarea adaugarii de etape la o editie existenta
- Administrarea obtinerii tuturor etapelor de la o anumita editie din cadrul unui anumit raliu pe baza numelor

TeamService se ocupa de:

- Administrarea adaugarii unei echipe in sistem cu sau fara membri
- Administrarea obtinerii unei echipe pe baza numelui
- Administrarea modificarii numelui unei echipe

TeamMemberService se ocupa de:

- Administrarea adaugarii unui nou membru la o echipa

ParticipationService se ocupa de:

- Administrarea inscrierii unei echipe la o anumita editie
- Administrarea anularii unei inscrieri a unei echipe la o anumita editie
- Administrarea obtinerii editiilor la care a participat o echipa
- Administrarea obtinerii echipelor ce au participat la o anumita editie

ResultService se ocupa de:

- Administrarea adaugarii unui rezultat obtinut de o echipa la o anumita etapa
- Administrarea actualizarii scorului unei echipe la un anumit rezultat
- Administrarea obtinerii unui clasament al echipelor la o anumita editie

Business Requirements

1. Adaugarea unui raliu in sistem – posibilitatea de a adauga un raliu (crearea unui raliu cu numele dat) sau crearea unui raliu cu intreaga structura de sub acesta (editii+etape)
2. Adaugarea unei editii la un raliu cu sau fara etape
3. Adaugarea unei liste de etape la un raliu deja existent
4. Modificarea numelui unui raliu
5. Obtinerea unui raliu cu intreaga structura (editii+etape) pe baza numelui
6. Eliminarea unui raliu din sistem impreuna cu intreaga structura a acestuia pe baza numelui
7. Obtinerea informatiilor despre o anumita editie a unui raliu pe baza numelor

- 8.** Obținerea informațiilor despre toate edițiile cu un anumit nume
- 9.** Obținerea etapelor prezente într-un anumit raliu la o anumită etapă pe baza numelor acestora
- 10.** Adăugarea unei echipe în sistem cu sau fără membri
- 11.** Obținerea structurii unei echipe după numele echipei
- 12.** Modificarea numelui unei echipe
- 13.** Adăugarea unui membru la o anumită echipă pe baza numelui echipei
- 14.** Înscrierea unei echipe la o anumită ediție a unui raliu
- 15.** Anularea înscrierii unei echipe la o ediție a unui raliu
- 16.** Obținerea tuturor participărilor unei echipe (indiferent de ediție)
- 17.** Obținerea echipelor participante la o anumită ediție
- 18.** Adăugarea rezultatului obținut de o echipă la o etapă
- 19.** Modificarea scorului unui anumit rezultat
- 20.** Obținerea rezultatelor de la o anumită ediție sub formă de clasament



Select a definition

default

Rally Competition API Documentation

[Base URL: localhost:8080/]

<http://localhost:8080/v2/api-docs>

API Documentation for all available operations with rallies, editions, stages, teams, team members, team participations in rally editions and their stage results

Edition Edition Controller

**POST** /edition Create an edition

Creates a new Edition based on the information received in the request

Parameters

[Try it out](#)

Name	Description
------	-------------

edition * required

object

Edition details

(body)

Example Value Model

```
{
  "editionName": "string",
  "rallyName": "string",
  "stages": [
    {
      "distance": 0,
      "stageId": 0,
      "stageName": "string",
      "startDate": "2021-01-14T18:21:52.562Z",
      "type": "string"
    }
  ]
}
```

Parameter content type[application/json](#)

Responses		Response content type
		/
Code	Description	
200	OK	
	Example Value	Model
	<pre>{ "body": {}, "statusCode": "ACCEPTED", "statusCodeValue": 0 }</pre>	
201	The Edition was successfully created based on the received request	
400	Validation error on the received request	
401	Unauthorized	
403	Forbidden	
404	Not Found	

GET

/edition/{editionName}

Get editions

Get editions which have the name received from parameter

Parameters

Try it out

Name

Description

Name	Description
edition name * required string (path)	Name of target edition <div>edition name - Name of target edition</div>
Responses	Response content type <div>*/*</div>
Code	Description
200	<div>The Editions were found</div> <div>Example Value Model</div> <div><pre>[{ "editionName": "string", "rallyName": "string", "stages": [{ "distance": 0, "stageId": 0, "stageName": "string", "startDate": "2021-01-14T18:23:03.991Z", "type": "string" }] }]</pre></div>
401	Unauthorized
403	Forbidden
404	Not Found

GET	/edition/{rallyName}/{editionName} Get an edition
Get edition which have the specified name and belongs to the rally with name specified in the first parameter	

Parameters

Try it out

Name	Description
edition name * required string (path)	Name of target edition <div>edition name - Name of target edition</div>
rally name * required string (path)	Name of target rally <div>rally name - Name of target rally</div>

Responses

Response content type */*

Code	Description
200	<p>The Edition was found</p> <p>Example Value Model</p> <pre>{ "editionName": "string", "rallyName": "string", "stages": [{ "distance": 0, "stageId": 0, "stageName": "string", "startDate": "2021-01-14T18:23:04.005Z", "type": "string" }] }</pre>
401	Unauthorized
403	Forbidden
404	Not Found

Participation

Participation Controller



POST /participation Create a Participation

Enroll the current user's team in a rally edition

Parameters

Try it out

Name	Description
enroll * required	
object (body)	Edition and user details
	Example Value Model
	<pre>{ "editionName": "string", "rallyName": "string", "teamMember": { "dateOfBirth": "2021-01-14", "firstName": "string", "lastName": "string", "type": "coDriver" } }</pre>
	Parameter content type
	application/json

Responses

Response content type */*

Code	Description
------	-------------

Code	Description
------	-------------

200

OK

Example Value	Model
---------------	-------

```
{
  "body": {},
  "statusCode": "ACCEPTED",
  "statusCodeValue": 0
}
```

201

The team of the team member was successfully registered at rally edition received in the request

400

Validation error on the received request

401

Unauthorized

403

Forbidden

404

Not Found

DELETE	/participation	Delete a Participation
--------	----------------	------------------------

Unregister the current user's team from a rally edition

Parameters

[Try it out](#)

Name	Description
------	-------------

Name	Description
enroll * required	
object	Edition and user details
(body)	Example Value Model

```
{
  "editionName": "string",
  "rallyName": "string",
  "teamMember": {
    "dateOfBirth": "2021-01-14",
    "firstName": "string",
    "lastName": "string",
    "type": "coDriver"
  }
}
```

Parameter content type

application/json

Responses

Response content type

/

Code	Description
200	<p>The team of the team member was successfully unregistered at rally edition received in the request</p> <p>Example Value Model</p> <pre>{ "body": {}, "statusCode": "ACCEPTED", "statusCodeValue": 0 }</pre>
204	No Content
401	Unauthorized
403	Forbidden
404	The team member or edition you are looking for wasn't found

GET /participation/{teamName} Get team participation

Get all the participation of a team regardless of edition and rally

Parameters

Try it out

Name Description

teamName * required

string
(path)

Name of the team

teamName - Name of the team

Responses

Response content type

/

Code Description

200

The team was found

Example Value Model

```
[
  {
    "editionName": "string",
    "rallyName": "string",
    "stages": [
      {
        "distance": 0,
        "stageId": 0,
        "stageName": "string",
        "startDate": "2021-01-14T18:23:04.016Z",
        "type": "string"
      }
    ]
  }
]
```

401

Unauthorized

403

Forbidden

Code	Description
404	The team wasn't found

GET

/participation/editionParticipations/{editionId}

Get participation on edition

Get all teams participating in the edition whose id is received as a parameter

Parameters

Try it out

Name	Description
editionId * required	Id of the target Edition
integer(\$int32) (path)	<div>editionId - Id of the target Edition</div>

Responses

Response content type

/

Code	Description
200	The edition was found

Example Value

Model

```
[
  {
    "countryOfOrigin": "string",
    "teamMembers": [
      {
        "dateOfBirth": "2021-01-14",
        "firstName": "string",
        "lastName": "string",
        "type": "coDriver"
      }
    ],
    "teamName": "string"
  }
]
```

POST

/rally

Create a Rally

Creates a new Rally based on the information received in the request. It also adds Editions if exists

Parameters

Try it out

Name	Description
------	-------------

rally * required

object
(body)

Rally details

Example Value Model

```
{
  "editions": [
    {
      "editionName": "string",
      "stages": [
        {
          "distance": 0,
          "stageId": 0,
          "stageName": "string",
          "startDate": "2021-01-14T18:22:11.220Z",
          "type": "string"
        }
      ]
    }
  ],
  "rallyId": 0,
  "rallyName": "string"
}
```

Parameter content type

application/json

Responses

Response content type

**

Code	Description
------	-------------

Code	Description
200	OK
	<div><div>Example Value</div><div>Model</div></div> <div><pre>{ "body": {}, "statusCode": "ACCEPTED", "statusCodeValue": 0}</pre></div>
201	Rally was added
400	Validation error on the received request
401	Unauthorized
403	Forbidden
404	Not Found

GET

/rally/{rallyName}

Get rally

Get rally by rally name which is unique

Parameters

Try it out

Name	Description
rallyName * required	
string (path)	Name of target rally

rallyName - Name of target rally

Responses

Response content type

/

Code

Description

200

The rally was found

Example Value Model

```
[
  {
    "editionName": "string",
    "rallyName": "string",
    "stages": [
      {
        "distance": 0,
        "stageId": 0,
        "stageName": "string",
        "startDate": "2021-01-14T18:23:04.026Z",
        "type": "string"
      }
    ]
  }
]
```

401

Unauthorized

403

Forbidden

404

The rally wasn't found

DELETE

/rally/{rallyName} Delete a rally

Delete a rally with the name received as parameter

Parameters

Try it out

Name

Description

rallyName * requiredstring
(path)

Name of target rally

rallyName - Name of target rally

Responses

Response content type

/

Code	Description
200	<div>OK</div> <div><div>Example Value</div><div>Model</div><div><pre>{ "body": {}, "statusCode": "ACCEPTED", "statusCodeValue": 0}</pre></div></div>
204	No Content
401	Unauthorized
403	Forbidden

PUT

/rally/changeRallyName/{previousName}/{changedName}

Change rally name

Parameters

Try it out

Name	Description
<div><div>newName</div><div><div>string</div><div>(path)</div></div><div><div>*</div> required</div></div>	<div>New name of rally</div> <div><div>newName - New name of rally</div></div>
<div><div>previousName</div><div><div>string</div><div>(path)</div></div><div><div>*</div> required</div></div>	<div>Previous name of rally</div> <div><div>previousName - Previous name of rally</div></div>

Responses		Response content type
		/
Code	Description	
200	The name of the rally was changed	
	Example Value	Model
	<pre>{ "body": {}, "statusCode": "ACCEPTED", "statusCodeValue": 0 }</pre>	
201	Created	
401	Unauthorized	
403	Forbidden	
404	The rally wasn't found	

Result

Result Controller

▼

POST

/result

Create a Result

Create a result of team on a stage

Parameters

Try it out

Name	Description
------	-------------

Name		Description
result * required		
object	Result details	
(body)	Example Value	Model
<pre>{ "score": 0, "stageId": 0, "teamId": 0, "teamName": "string", "time": 0 }</pre>		
Parameter content type		
<div>application/json</div>		
Responses		Response content type
		<div>*/*</div>
Code	Description	
200	The result was created	
	Example Value	Model
<pre>{ "body": {}, "statusCode": "ACCEPTED", "statusCodeValue": 0 }</pre>		
201	Created	
400	Validation error on the received request	
401	Unauthorized	
403	Forbidden	
404	Not Found	

GET

/result/{editionId} Get results

Get results of an edition

Parameters

Try it out

Name	Description
editionId * required integer(\$int32) (path)	Id of searched edition

editionId - Id of searched edition

Responses

Response content type */*

Code	Description
200	<div>Edition was found</div> <div><div>Example Value</div><div>Model</div></div> <div>[{ "countryOfOrigin": "string", "teamName": "string", "totalScore": 0 }]</div>
401	Unauthorized
403	Forbidden
404	Edition wasn't found

PUT

/result/{resultId}/{score} Update the score of a result

Update a score of a result if the resultId is found

Parameters

Try it out

Name	Description
resultId * required integer(\$int32) (path)	Id of target result
	resultId - Id of target result
score * required integer(\$int32) (path)	The value of the score to be added
	score - The value of the score to be added

Responses

Response content type */*

Code	Description
200	The score was updated
	Example Value Model
	<pre>{ "body": {}, "statusCode": "ACCEPTED", "statusCodeValue": 0 }</pre>
201	Created
401	Unauthorized
403	Forbidden

Code	Description
404	The result wasn't found

Stage

Stage Controller



POST

/stage

Add stages to an edition

Add stages to edition if it exists

Parameters

Try it out

Name	Description
edition * required	
object (body)	Edition with stages details
	<div>Example ValueModel</div> <pre>{ "editionName": "string", "rallyName": "string", "stages": [{ "distance": 0, "stageId": 0, "stageName": "string", "startDate": "2021-01-14T18:22:27.099Z", "type": "string" }]}</pre>
	<div>Parameter content type</div> <div>application/json</div>

Responses		Response content type
		/
Code	Description	
200	Stages were created	
	Example Value	Model
	<pre>{ "body": {}, "statusCode": "ACCEPTED", "statusCodeValue": 0 }</pre>	
201	Created	
400	Edition not found	
401	Unauthorized	
403	Forbidden	
404	Not Found	

GET

/stage/{rallyName}/{editionName}

Get stages

Get stages of a specified edition from a given rally

Parameters

Try it out

Name	Description
editionName * required	Name of target edition
string	
(path)	

editionName - Name of target edition

Name	Description
rallyName * required string (path)	Name of target rally
	<div>rallyName - Name of target rally</div>

Responses	Response content type
	<div>*/*</div>

Code	Description
200	<div>The stages were obtained</div> <div>Example Value Model</div> <div><pre>[{ "distance": 0, "stageId": 0, "stageName": "string", "startDate": "2021-01-14T18:23:04.054Z", "type": "string" }]</pre></div>
401	Unauthorized
403	Forbidden
404	Rally or edition not found



POST

/team Create a team

Creates a team and if it has team members creates also the members

Parameters

Try it out

Name	Description
edition * required	
object	Team and team members details
(body)	<div>Example ValueModel</div> <div><pre>{ "countryOfOrigin": "string", "teamId": 0, "teamMembers": [{ "dateOfBirth": "2021-01-14", "firstName": "string", "lastName": "string", "teamMemberId": 0, "type": "coDriver" }], "teamName": "string"}</pre></div> <div>Parameter content type</div> <div>application/json</div>

Responses

Response content type */*

Code	Description
200	<div>Team and team members were created</div> <div>Example ValueModel</div> <div><pre>{ "body": {}, "statusCode": "ACCEPTED", "statusCodeValue": 0}</pre></div>

Code	Description
201	Created
400	Validation error on the received request
401	Unauthorized
403	Forbidden
404	Not Found

GET

/team/{teamName} Get team

Get team with team members by team name which is unique

Parameters

Try it out

Name	Description
<div><div>teamName</div><div>string</div><div>(path)</div></div> <div>* required</div>	<div>Name of the team</div> <div>teamName - Name of the team</div>

Responses

Response content type

/

Code	Description
------	-------------

Code	Description
200	<div>The information was get</div> <div>Example Value Model</div> <div><pre>{ "countryOfOrigin": "string", "teamMembers": [{ "dateOfBirth": "2021-01-14", "firstName": "string", "lastName": "string", "type": "coDriver" }], "teamName": "string"}</pre></div>
204	Team wasn't found
401	Unauthorized
403	Forbidden
404	Not Found

PUT /team/changeTeamName/{previousName}/{changedName} Change team name

Parameters

Try it out

Name	Description
<div>newName * required</div> <div>string</div> <div>(path)</div>	<div>New name of rally</div> <div>newName - New name of rally</div>
<div>previousName * required</div> <div>string</div> <div>(path)</div>	<div>Previous name of team</div> <div>previousName - Previous name of team</div>

Responses		Response content type
		/
Code	Description	
200	The name of the team was changed	
	Example Value	Model
	<pre>{ "body": {}, "statusCode": "ACCEPTED", "statusCodeValue": 0 }</pre>	
201	Created	
401	Unauthorized	
403	Forbidden	
404	The team wasn't found	

Team Member

Team Member Controller



POST

/teamMember/{teamName}

Create a team member

Creates a new team member on the team with the name received by parameter

Parameters

Try it out

Name	Description
teamMember * required	
object	Team members details
(body)	
Example Value	Model
<pre>{ "dateOfBirth": "2021-01-14", "firstName": "string", "lastName": "string", "team": { "countryOfOrigin": "string", "teamId": 0, "teamMembers": [null], "teamName": "string" }, "teamMemberId": 0, "type": "coDriver"}</pre>	
Parameter content type	
application/json	
teamName * required	
string	Name of the team
(path)	
teamName - Name of the team	

Responses	Response content type
	/

Code	Description
200	Team member was created and added to the team
	Example Value Model
<pre>{ "body": {}, "statusCode": "ACCEPTED", "statusCodeValue": 0}</pre>	
201	Created

Code	Description
400	Team wasn't found
401	Unauthorized
403	Forbidden
404	Not Found

Models

Edition

{

description:

Entire structure of an Edition

editionName*

string

editionName

rally

Rally {...}

stages

[...]

}

Edition Dto

{

description:

Required details needed to create a new Edition

editionName*

string

rallyName*

string

stages

[...]

}

Enroll team to edition

{

description:

editionName*

rallyName*

teamMember*

Required details needed to register the team for the edition

string

string

Team Member Dto

{...}

}

Participation

{

description:

countryOfOrigin

teamName

totalScore

Returned values for a participation

string

string

integer(\$int32)

}

Rally

{

description:

editions

rallyId

rallyName*

Required details needed to create a new Rally

[...]

integer(\$int64)

string

}

ResponseEntity

Result Dto

{

description:

score*

stageId*

teamId

teamName*

time*

Required details needed to create a new Result

integer(\$int64)

integer(\$int32)

integer(\$int32)

string

number(\$double)

}

Stage {	
description:	Entire structure of a Stage
distance*	number(\$double) minimum: 0 exclusiveMinimum: false
edition	Edition {...}
stageId	integer(\$int64)
stageName*	string
startDate*	string(\$date-time)
type*	string
}	
Stage Dto {	
description:	Required details needed to create a new Stage
distance*	number(\$double) minimum: 0 exclusiveMinimum: false
stageId	integer(\$int64)
stageName*	string
startDate*	string(\$date-time)
type*	string
}	
Team {	
description:	Entire structure of a Team
countryOfOrigin*	string
teamId	integer(\$int64)
teamMembers	[...]
teamName*	string
}	
Team Dto {	
description:	Required details needed to create a new Team
countryOfOrigin	string
teamMembers	[...]
teamName	string
}	


```
Team Member {
  description: Entire structure of a Team Member

  dateOfBirth* string($date)
  firstName* string
  lastName* string
  team Team {...}
  teamMemberId integer($int64)
  type* string
  Enum:
    Array [ 3 ]
}
```

```
Team Member Dto {
  description: Required details needed to create a new Team Member

  dateOfBirth string($date)
  firstName string
  lastName string
  type string
  Enum:
    Array [ 3 ]
}
```