# **Gandalf**

# **Overview**

Multimedia analysis API

Terms Of Service

Apache 2.0

Find more info here.

# **Security**

Туре	Name	Scopes
аріКеу	JWT	

# **Paths**

# POST /token/ Obtain a JWT for the user.

Code	Description	Description				
200	OK: the auth	No Links				
	Content	Content				
	application	json				
	Properties					
	Name	Description	Schema			
	access optional	The authentication token.	string			
	refresh optional	The refresh token.	string			

Code	Descri	ption			Links	
401	Unautl	norizec	: the authentication has been refused.		No Links	
	Header					
	Nam e	Descr	iption	Schema		
			equested authentication type.	enum (Bearer realm='api')		
	Content applic					
	Na	me	Description	Schema		
	det	ail tional	The reason for refusing access.	string		
500	{"detail":"No active account found with the given credentials"}  Internal Server Error: the server has encountered an unexpected No Li					
	error.					
	Conten					
	applic	ation/j	son			
	Pro	perties				
	Na	me	Description	Schema		
		ison tional	A description of the error.	string		
	{"re	ason":	"Backend is not responding."}			

# POST /token/refresh Obtain a JWT for the user.

Code	Descr	Description				
200	OK: th	ne authe	entication has been accepted.		No Links	
	Conte	nt				
	appli	cation/j	son			
	Pro	perties				
	Na	ame	Description	Schema		
		cess tional	The authentication token.	string		
401	Unau	thorized	d: the authentication has been refuse	ed.	No Links	
	Heade	rs				
	Nam e	Descr	ription	Schema		
	WW The re W- Auth entic ate		equested authentication type.	enum (Bearer realm='api')		
	Conter appli Pro					
	Na	ame	Description	Schema		
		tail tional	The reason for refusing access.	string		
	CO	de	The error code. string			

Code	Description	Description				
500	Internal Server Error: the server has encountered an unexpected error.					
	Content					
	application/j	application/json				
	Properties	Properties				
	Name	Description	Schema			
	reason optional	A description of the error.	string			
	{"reason":					

# GET /projects/ Obtain the list of available projects.

Code	Description	Links
200	OK: a list of available projects.	No Links
	Content	

Headers Nam De	escrij	the user is not authorized to perfo	orm this operation.  Schema	No Links	
e WW Th		otion	Schema		
			2		
Auth entic ate	The requested authentication type. enum (Beare		enum (Bearer)		
Content  application/json  Properties					
Name	: ]	Description	Schema		
point		Γhe authentication URI.	string		
		The reason for refusing access.	string		
{"authEndpoint":"https://lesc.dinfo.unifi.it/gandalf/api/v 1/login","reason":"No token has been sent."}					
Internal error.	Serve	r Error: the server has encounte	ered an unexpected	l No Links	
	_	on			
Name	. ]	Description	Schema		
		A description of the error.	string		
	application Proper Name authE point option reason option  {"authE 1/login  Internal Serror.  Content application Proper Name reason	application/jso  Properties  Name  authEnd point optional  reason optional  {"authEndpoint 1/login", "reason content application/jso Properties  Name	application/json  Properties  Name Description  authEnd point optional  reason optional  {"authEndpoint":"https://lesc.dinfo.unifi. 1/login", "reason":"No token has been sent.  Internal Server Error: the server has encounteerror.  Content application/json  Properties  Name Description  reason A description of the error.	application/json  Properties  Name Description Schema authEnd point optional  reason optional  {"authEndpoint": "https://lesc.dinfo.unifi.it/gandalf/api/v1/login", "reason": "No token has been sent."}  Internal Server Error: the server has encountered an unexpected error.  Content application/json  Properties  Name Description Schema reason A description of the error.	

# POST /projects/ Create a new project.

#### Parameters

Туре	Name	Description	Schema
query	<b>name</b> required	The name of the project.	string

Code	Descri	ption		Links
201	Create Header	d: the project has been created.	analysisResults Operation getProject	
	Nam e	Description	Schema	Parameters { "projectId":
	Locat	The URI for the project details.	string	"\$response.id" }
	Conten	t		

Code	Descr	Description					
401		Unauthorized: the user is not authorized to perform this operation.  Headers					
	Nam e	Descr	iption	Schema			
	WW W- Auth entic ate	The re	The requested authentication type.  (Bearer)				
		t cation/j perties	son				
	Na	me	Description	Schema			
500	po	thEnd int tional	The authentication URI.	string			
		ason tional	The reason for refusing access.	string			
	{"au 1/lo						
	Internal Server Error: the server has encountered an unexpected error.		No Links				
	applic	Content  application/json  Properties					
		me	Description	Schema			
		ason tional	A description of the error.	string			
	{"re	ason":	"Backend is not responding."}	,			

# GET /projects/{projectId} Obtain project status.

#### Parameters

Туре	Name	Description	Schema
path	<b>projectId</b> required	The project ID as reported in the project creation receipt.	integer

Code	Descri	ption			Links		
200	OK: the	No Links					
401	Unauth Header		d: the user is not authorized to perfo	orm this operation.	No Links		
	Nam e	Descr	ription	Schema			
	WW W- Auth entic ate	The re	equested authentication type.	enum (Bearer)			
	applica Prop	Content  application/json  Properties					
	Na	me	Description	Schema			
	poi	hEnd nt ional	The authentication URI.	string			
		son ional	The reason for refusing access.	string			
	{"au 1/lo						
404	Not For	und: th	ne requested project has not been fo	ound.	No Links		

Code	Description	Links		
500	Internal Serverror.  Content	No Links		
	application/j			
	Name	Description	Schema	
	reason optional	A description of the error.	string	
	{"reason":	"Backend is not responding."}		

# DELETE /projects/{projectId} Delete a project.

#### **Parameters**

Type	Name	<b>Description</b> Schema
path	<b>projectId</b> required	The project ID as reported in the project integer creation receipt.

Code	Description	Links
204	No Content: the project has been successfully deleted.	No Links

Code	Descri	Links			
401	Unautl	Unauthorized: the user is not authorized to perform this operation.			
	Header	'S			
	Nam e	Descr	ription	Schema	
	WW W- Auth entic ate	The re	equested authentication type.	enum (Bearer)	
	Conten  applic  Prop		son		
	Na	me	Description	Schema	
	poi	hEnd nt ional	The authentication URI.	string	
		son ional	The reason for refusing access.	string	
			oint":"https://lesc.dinfo.unifi.i reason":"No token has been sent."		
104	Not Fo	und: th	ne requested project has not been fou	ınd.	No Links
500	Internation error.  Conten applic	t	ver Error: the server has encounter	red an unexpected	No Links
	Prop	perties			
	Na	me	Description	Schema	
		son ional	A description of the error.	string	
	{"re	ason":	"Backend is not responding."}		

# POST /projects/{projectId}/start Start an analysis.

#### Parameters

Туре	Name	Description	Schema
query	tools optional	A list of tool IDs to be run. Default: run all tools.	< integer > array
path	<b>projectId</b> required	The project ID as reported in the project creation receipt.	integer

	Descr	iption			Links	
202	Accept	Accepted: the analysis request has been accepted.			No Links	
401	Unaut	horized	d: the user is not authorized to perfor	rm this operation.	No Links	
	Header	rs				
	Nam e	Descr	ription	Schema		
	WW W- Auth entic ate	The ro	equested authentication type.	enum (Bearer)		
	Content  application/json  Properties  Name Description Schema					
	Na	me	Description	JUILLII		
	au	thEnd	The authentication URI.	string		
	aur poi opt	thEnd int	_			
	aur poi opti rea opti	thEnd int tional ason tional	The authentication URI.	string string t/gandalf/api/v		

Code	Description	Description		
500	Internal Serv	er Error: the server has encounte	ered an unexpected	No Links
	Content	Content		
	application/j	son		
	Properties			
	Name	Description	Schema	
	reason optional	A description of the error.	string	
	{"reason":	"Backend is not responding."}		

# POST /projects/{projectId}/media/ Upload a media file to a project.

#### Parameters

Type	Name	Description	Schema
query	role required	The role of the uploaded file in the analysis.	enum (PROBE,REFERENCE)
query	name optional	An (optional) name for the uploaded file.	string
path	<b>projectId</b> required	The project ID as reported in the project creation receipt.	integer

Code	Descri	ption			Links
201	Create Header		nedia file has been successfully upl	oaded.	deleteMedia Operation deleteProjectMedia
	Nam e	Descr	iption	Schema	Parameters { "projectId":
	Locat	The U	RI for the media file.	string	"\$path.id" "mediaId": "\$response.id" }
	Conten	t			J
401			l: the user is not authorized to perfo	orm this operation.	No Links
	WW W- Auth entic ate	The re	equested authentication type.	enum (Bearer)	
	Content applic		son		
	Na	me	Description	Schema	
	poi	thEnd int tional	The authentication URI.	string	
		ison tional	The reason for refusing access.	string	
		thEndp gin","			
404	Not Fo	und: th	ne requested project has not been fo	ound.	No Links

Code	Description			Links	
500	Internal Server Error: the server has encountered an unexpected error.  Content				
	application/j  Properties	son			
	Name	Description	Schema		
	reason optional	A description of the error.	string		
	{"reason":	"Backend is not responding."}			

# DELETE /projects/{projectId}/media/{mediaId} Delete a media file from a project.

#### Parameters

Туре	Name	Description	Schema
path	mediaId required	The file ID as reported in the media upload receipt.	integer
path	<b>projectId</b> required	The project ID as reported in the project creation receipt.	integer

Code	Description	Links
204	No Content: the media file has been successfully deleted.	No Links

Code	Descri	ption			Links		
401	Unauth	norized	d: the user is not authorized to perform	m this operation.	No Links		
	Header	Headers					
	Nam e	Descr	ription	Schema			
	WW	The re	equested authentication type.	enum			
	W- Auth entic ate			(Bearer)			
	Content	ation/j	ison				
	Prop Na	perties me	Description	Schema			
	authEnd point optional		The authentication URI.	_			
	reaso		The reason for refusing access.	string			
	{"au 1/lo						
104	Not For	Not Found: the requested media file has not been found.					
500	Internal Server Error: the server has encountered an unexpected error.				No Links		
	Conten	Content					
	applic	application/json					
	Prop	perties	S				
	Na	me	Description	Schema			
		son ional	A description of the error.	string			
	{"re	ason":	"Backend is not responding."}				

# POST /projects/{projectId}/data/ Upload a data file to a project.

#### **Parameters**

Туре	Name	Description	Schema
query	<b>dataType</b> required	The kind of data contained in the uploaded file.	string
query	name optional	An (optional) name for the uploaded file.	string
path	<b>projectId</b> required	The project ID as reported in the project creation receipt.	integer

Code	Descri	ption		Links
201	Create Header	d: the data file has been successfully r	deleteMedia Operation deleteProjectData	
	Nam e	Description	Schema	Parameters { "projectId":
	Locat	The URI for the media file.	string	"\$path.id" "dataId": "\$response.id"
	Conten	t	}	

Code	Descri	ption			Links		
101	Unauth	orized	l: the user is not authorized to perfor	m this operation.	No Links		
	Headers	Headers					
	Nam e	Descr	ription	Schema			
	WW	The re	equested authentication type.	enum			
	W- Auth entic ate			(Bearer)			
	Content applica	ation/j	son				
	Prop Nai	erties me	Description	Schema			
	authEnd point optional		The authentication URI.				
	rea:	son ional	The reason for refusing access.	string			
	{"aut						
104	Not Found: the requested project has not been found.			No Links			
500	Internal Server Error: the server has encountered an unexpected error.				No Links		
	Content	Content					
	applica	application/json					
	_	erties					
	Naı		Description	Schema			
	rea: opti	son ional	A description of the error.	string			
	{"rea	ason":	"Backend is not responding."}	'			

# DELETE /projects/{projectId}/data/{dataId} Delete a data file from a project.

#### **Parameters**

Type	Name	Description	Schema
path	<b>dataId</b> required	The file ID as reported in the data upload receipt.	integer
path	<b>projectId</b> required	The project ID as reported in the project creation receipt.	integer

Code	Descr	iption			Links	
204	No Co	ntent: t	he media file has been successfully	deleted.	No Links	
401	Unaut	horized	l: the user is not authorized to perfo	orm this operation.	No Links	
	Headers					
	Nam e	Descr	iption	Schema		
	WW W- Auth entic ate	The re	equested authentication type.	enum (Bearer)		
	Content					
		application/json  Properties				
	Na	me	Description	Schema		
	po	thEnd int tional	The authentication URI.	string		

Name	Description	Schema
authEnd point optional	The authentication URI.	string
reason optional	The reason for refusing access.	string

{"authEndpoint":"https://lesc.dinfo.unifi.it/gandalf/api/v 1/login","reason":"No token has been sent."}

Code	Description	Description				
404	Not Found: th	Not Found: the requested media file has not been found.				
500	Internal Serverror.  Content  application/j  Properties	ver Error: the server has encounter	red an unexpected	No Links		
	Name	Description	Schema			
	reason optional	A description of the error.	string			
	{"reason":	{"reason":"Backend is not responding."}				

# GET /projects/{projectId}/results/{resultId} Obtain a result's data.

#### Parameters

Туре	Name	Description	Schema
path	resultId required	The result ID.	integer
path	<b>projectId</b> required	The project ID as reported in the project creation receipt.	integer

Code	Descri	iption			Links
200	OK: the	e chose	n result has been found.		No Links
	Header	°S			
	Nam e	Descr	iption	Schema	
	ETag	An ha	sh of the specific version of this result.	string	
	Last- Modi fied	The l	ast modification timestamp for this	string	
	Conten	t			
401			: the user is not authorized to perform th	is operation.	No Links
	Header			0.1	
	Nam Descri		iption	Schema	
	WW W- Auth entic ate	W- Auth entic		enum (Bearer)	
	Conten  applic  Proj				
	Na	me	Description	Schema	
	poi	thEnd int tional	The authentication URI.	string	
	reason optional		The reason for refusing access.	rusing access. string	
	{"au 1/lo				
404	Not Fo	und: th	e requested media file has not been found	d.	No Links

Code	Description			Links		
500	Internal Serv	Internal Server Error: the server has encountered an unexpected error.				
	Content	Content				
	application/j	son				
	Properties					
	Name	Name Description Schema				
	reason optional	A description of the error.	string			
	{"reason":					

# **GET /tools/ List of available tools.**

Code	Description	Links
200	OK: the tools list has been generated.	No Links
	Content	

Code	Descri	iption			Links
401	Unautl Header	No Links			
	Nam e	Descr	iption	Schema	
	WW The re W- Auth entic ate		equested authentication type.	enum (Bearer)	
		t <b>ation/j</b> perties	son		
	Na	me	Description	Schema	
	poi	thEnd int tional	The authentication URI.	string	
		ison tional	The reason for refusing access.	string	
	{"au 1/lo				
500	Internal Server Error: the server has encountered an unexpected error.			No Links	
	Conten	t			
		<b>ation/j</b> perties	son		
	Na	me	Description	Schema	
		ison tional	A description of the error.	string	
	{"re	ason":	"Backend is not responding."}		

# **Components**

# **Schemas**

### **Authentication**

#### **Properties**

Name	Description	Schema
username required	The user's name.	string
password required	The user's password.	string (password)

### AuthenticationRefresh

#### Properties

Name	Description	Schema
refresh required	The refresh token.	string

# **ProjectStatus**

The status of a project analysis.

Name	Description	Schema
id optional	A unique identifier for the project analysis request.	integer
location optional	The URI for the project details.	string
status optional	The status of the project. DRAFT = The project is in draft mode, media files can be added/removed and no processing is being performed. PENDING = The request is still being processed, no result is available. PARTIAL = The request is still being processed, some results are available. COMPLETED = The request has been processed and the results are available. ERROR = An error occurred during the analysis.	(DRAFT,PENDI NG,PARTIAL,C OMPLETED,ER
name optional	The project name.	string

# ProjectReceipt

The project creation receipt

### Properties

Name	Description	Schema
id optional	A unique identifier for the project.	integer
location optional	The URI for the project details.	string
name optional	The project name.	string

# **ProjectDetails**

Details regarding a project.

Name	Description	Schema
id optional	A unique identifier for the project.	integer
status optional	The status of the project. DRAFT = The project is in draft mode, media files can be added/removed and no processing is being performed. PENDING = The request is still being processed, no result is available. PARTIAL = The request is still being processed, some results are available. COMPLETED = The request has been processed and the results are available. ERROR = An error occurred during the analysis.	(DRAFT,PENDI NG,PARTIAL,C OMPLETED,ER
name optional	The project name.	string
probes optional	A set of media files to be analysed.	<ul><li>UploadedMedi</li><li>aFile &gt; array</li></ul>
references optional	A set of media files to use as references.	<ul><li>UploadedMedi</li><li>aFile &gt; array</li></ul>
additionalData optional	A set of additional contents useful to the available toolset.	<ul><li>UploadedDataF</li><li>ile &gt; array</li></ul>

Name	Description	Schema
results optional	The set of tool results.	<
		ResultSummar
		y > array

## MediaReceipt

The media upload receipt

#### Properties

Name	Description	Schema
id optional	A unique identifier for the media file.	integer
location optional	The URI for the media file.	string
fileName optional	The media file name.	string

# DataReceipt

The data upload receipt

### Properties

Name	Description	Schema
id optional	A unique identifier for the data file.	integer
location optional	The URI for the data file.	string
fileName optional	The media file name.	string

## **UploadedFile**

Generic uploaded file.

Name	Description	Schema
id optional	A unique identifier for the file.	integer

Name	Description	Schema
fileName optional	The name of the orginal file.	string
hash optional	The hash of the file contents.	string

## UploadedMediaFile

Uploaded media file.

## UploadedDataFile

Uploaded data file.

### ResultSummary

Summary of a result.

#### Properties

Name	Description	Schema
id optional	A unique identifier for the current result.	integer
location optional	The URI for the result details.	string
probes optional	IDs of probes that have been used to provide the result.	< integer > array
toolId optional	A unique identifier for the used tool.	integer
name optional	A description of this result (e.g. "Gray map", "Color map",).	string
resultType optional	Type of result produced by the used tool.	enum (SINGLE,MULT I)

### **ResultDetails**

Details of a given result.

#### **ToolDetail**

Details regarding one tool.

Name	Description	Schema
id optional	A unique identifier for the tool.	integer
name optional	The common name used for the tool.	string
description optional	The description of the tool characteristics and functioning.	string
supportedData Types <i>optional</i>	A list of data types on which the tool can operate.	< string > array
supportedData Formats optional	A list of data formats on which the tool can operate.	< string > array
references optional	A list of bibliographical references to papers describing the tool.	< string > array

# Responses

Code	Description	Links				
Unexpec tedError	Internal Serverror.	No Links				
	Content					
	application/j					
	Properties					
	Name	Description	Schema			
	reason optional	A description of the error.	string			
	{"reason":					

Descr	iption	Links				
	No Links					
Nam e	Descr	ription	Schema			
WW W- Auth entic ate	The re	equested authentication type.				
applio	Content  application/json  Properties  Name Description Schema					
po	int	The authentication URI.	string			
	ason	The reason for refusing access.	string			
	WW W-Auth entic ate  Content applic	Unauthorized  Headers  Nam Describe  WW The reward  Auth entic ate  Content  application/j	Unauthorized: the user is not authorized to perform the aders    Nam	Unauthorized: the user is not authorized to perform this operation.  Headers  Nam Description Schema  WW The requested authentication type.  W-Auth entic ate  Content  application/json  Properties  Name Description Schema  authEnd The authentication URI.  point  Schema  string		