VERSION [1.1]

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DOWNLOAD.IT

APPLICATION PROGRAM INTERFACE (API) DOCUMENTATION

**WE! TECHNOLOGY**

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# GENERAL

In order to implement outlook plugin its necessary to understand how full upload workflow works.

1. Calling “**login**” endpoint –*initiating a session*
2. Calling “**check session**” endpoint - *before continuing working after some idle time (performs autologin with older session code in case it expired)*
3. Calling “**check service**” - to verify an upload, storage before actual upload
4. Calling “**upload**” endpoint – uploading a file and obtain its ID for sharing and details
5. Calling “**copy link**” endpoint – obtaining time dependent URL for downloading a file
6. Calling “**logout**” endpoint – destroying session

# API ENDPOINTS

# LOGIN

Used to be able to logged into the Dashboard. This API also collects the information of the devices, such as device type and device token, for push notifications.

**URI:** /api/User/login

**Method:** POST**, type:** JSON

**Request:**

|  |  |  |
| --- | --- | --- |
| **Key** | **Type** | **Description** |
| Email | String | Email of the user |
| Password | String | Password of the user |
| DeviceType | Integer | Type of device (0 = Web; 1 = Android; 2 = iOS) |
| DeviceToken | String | Token of the device to be used for push notification |

{

"Email": "7421911@aruba.it",

"Password": "F9QfVG51Mg",

"DeviceType": 1,

"DeviceToken": "some DeviceToken"

}

**Sample Response:**

|  |  |  |
| --- | --- | --- |
| **Key** | **Type** | **Description** |
| Success | Boolean | Determines whether the request is allowed or not |
| Message | String | Description of the response |
| Aruba Response | Object | Stores the response regarding Aruba |
| S3Password | String | Secret Access Key of the S3 account |
| ServiceType | String | Determines the type of the Aruba account |
| AccessKeyId | String | Access key ID of the S3 account |
| DiscQuota | Double | Storage quota returned by Aruba API (MegaBytes |
| AccessToken | String | Token returned by PostAuthorize API |
| **Key** | **Type** | **Description** |
| SessionCode | String | Session code of the user, to be stored locally in the device |
| User | Object | Stores the user information |
| Id | Integer | Unique ID of the user |
| Email | String | Email and username of the user |
| DefaultBucketName | String | Name of the bucket of the user in S3 |
| DateCreated | Datetime | Date and time when the user was created |
| AdminId | Integer | ID of the admin of the sub user; null if main user |
| Type | Integer | Determines of the user is Basic or Pro |
| ProfilePicture | String | File name of the profile picture |
| ProfileImageUrl | String | URI of the profile picture |
| FirstName | String | First name of the user |
| LastName | String | Last name of the user |
| StreetAddress | String | Street address of the user |
| CityAddress | String | City of the user |
| Country | String | Country of the user |

{

"Success": true,

"Message": "Successfully logged in.",

"Data": {

"arubaResponse": {

"Success": true,

"S3Password": "m4d7hep412",

"ServiceType": "Pro",

"AccessKeyID": "7421911@aruba.it",

"DiscQuota": 100,

"Message": null,

"AccessToken": "eyJMb2dpbiI6Ijc0MjE5MTFAYXJ1YmEuaXQiLCJDZXJiZXJvVG9rZW4i..",

"DeviceToken": "",

"SessionCode": "QR0gB83ntj9GyFOOXvQiJKh7Ukc2ll5VyVUPIAt0Vjfq…",

"Exception": null

},

"user": {

"Id": 48,

"Email": "7421911@aruba.it",

"DefaultBucketName": "aruba-7421911",

"DateCreated": "2017-09-12T01:45:54.863",

"AdminId": null,

"Type": 1,

"ProfilePicture": "48.jpg",

"ProfileImageUrl": "/Files/ProfileImages/48.jpg",

"FirstName": "Ed",

"LastName": "Sheeran",

"StreetAddress": "123",

"CityAddress": "Milan",

"CountryAddress": "Italy"

}

}

}

# LOGOUT

Destroys the active session of the user.

**URI:** /api/User/Logout

**Method:** POST**, type:** JSON

**Request:**

|  |  |  |
| --- | --- | --- |
| **Key** | **Type** | **Description** |
| UserId | Integer | ID of the user |
| SessionCode | String | Session code of the user to validate the session |

{

"SessionCode" : "2l8Mc0O0EMJA3SllINBq61dNtSiF28Scuqz4WJ9/VYoANl1K9j+Z4TgQ==",

"UserId": 48

}

**Sample Response:**

|  |  |  |
| --- | --- | --- |
| **Key** | **Type** | **Description** |
| Success | String | Determines whether the request is allowed or not |
| Message | String | Description of the response |
| ErrorCode | Integer | Determines the type of error (0 = No error) |

{

"Success": true,

"ErrorCode": 0,

"Message": "Successfully logged out."

}

# CHECK USER SESSION

Used for auto-login; the mobile app checks for locally stored session code, and tries to send it as parameter to this endpoint. If the session is still valid, the user shall be logged in automatically.

**URI:** /api/User/CheckSession

**Method:** POST**, type:** JSON

**Request:**

|  |  |  |
| --- | --- | --- |
| **Key** | **Type** | **Description** |
| UserId | Integer | ID of the user |
| SessionCode | String | Session code of the user to validate the session |
| DeviceType | Integer | Type of device (0 = Web; 1 = Android; 2 = iOS) |
| DeviceToken | String | Token of the device to be used for push notification |

{

"SessionCode": "gfjX20zBDy+5nl30wS1Pb79IaIkeJ1u4OPC5fc7j1CjAPcO/ t3WQEyUqR7heA==",

"UserId": 48,

"DeviceToken": "DeviceToken",

"UserAgent": 1

}

**Sample Response:**

|  |  |  |
| --- | --- | --- |
| **Key** | **Type** | **Description** |
| Success | Boolean | If true, the session is still valid and the device can auto login the account |
| {  "Success": true,  } | |  |

# CHECK SERVICE

Checks the service of the user. This endpoints returns the S3 information that includes used storage space, total size of files uploaded, and if the user can still upload a file, which info is passed to this endpoint. The API also returns the pre-signed URL of the file to be uploaded. Call this endpoint before upload.

**URI:** /api/User/CheckService

**Method:** POST**, type:** JSON

**Request:**

|  |  |  |
| --- | --- | --- |
| **Key** | **Type** | **Description** |
| UserId | Integer | ID of the user |
| SessionCode | String | Session code of the user to validate the session |
| FileName | String | File name of the file to be uploaded |
| UploadSize | Integer | File size of the file to be uploaded |
| ContentType | String | MIME type of the file |

{

"UserId": 48,

"UploadSize": 133,

"FileName": "filename.jpg",

"SessionCode": "gfl30wS1fddWU3Pb79IaIkeJ1u4OPC5fc7j1CjAPcO/ t3WQEyUqR7heA==",

"ContentType": "image/jpeg"

}

**Sample Response:**

|  |  |  |
| --- | --- | --- |
| **Key** | **Type** | **Description** |
| FileUrl | String | Pre-signed URL of the file |
| FileThumbnailKey | String | Generated thumbnail file name |
| ThumbnailUrl | String | Pre-signed URL of the file thumbnail |
| Success | Boolean | Determines whether the user can or can’t upload |
| Quota | String | Storage Quota of the user |
| S3CurrentTotalSiz eUploaded | String | Total size of uploaded files to S3 |
| AvailableSPace | String | Remaining storage space |
| UploadSize | String | The size of the file to be uploaded |
| ToBeAvailableSpa ce | String | The total size of uploaded files after upload |
| FileKey | String | S3 Key of the file |
| IsThumbnailNeed ed | Boolean | Determines whether the file needs a thumbnail (for photos and videos) |
| ErrorCode | Integer | Returns the error code of the response (0 = No error) |
| Message | String | Message of the response |

{

"FileUrl": "http://aruba-7421911.dscality.cloud.it/filename.jpg?

AWSAccessKeyId=7421911%40aruba.it&Expires=4630471605&Signature=erlOvHJ59hyjkSoWP8f MNS4bhTw%3D",

"FileThumbnailKey": "filename\_5dcf4e0\_thumbnail.jpg",

"ThumbnailUrl": "http://aruba-7421911.dscality.cloud.it/filename\_5dcf4e0\_thumbnail.jpg?

AWSAccessKeyId=7421911%40aruba.it&Expires=4630471605&Signature=S0c4dQffVimla092w%2 Bq4yLsNYWU%3D",

"Success": true,

"Quota": "2560MB",

"S3CurrentTotalSizeUploaded": "237.54MB",

"AvailableSpace": "2322.46MB",

"UploadSize": "0.00MB",

"ToBeAvailableSpace": "2322.46MB",

"FileKey": "filename\_3a42f0e.jpg",

"IsThumbnailNeeded": true,

"ErrorCode": 0,

"Message": "Can upload"

}

# UPLOAD

Sends the file selected from the mobile device storage to the web server, then the web server uploads it to S3. Files successfully uploaded are automatically displayed on Download.IT web under the user who uploaded the file using the mobile application.

**URI:** /api/File/Upload

**Method:** POST, **Type:** form-data

**Request:**

|  |  |  |
| --- | --- | --- |
| **Key** | **Type** | **Description** |
| SessionCode | String | Session code that is used to validate the session |
| UserId | Integer | Unique ID of the user |
| File | File | File data of the file to be uploaded |
| UploadIp | String | IIP address of the client |

**Sample Response:**

|  |  |  |
| --- | --- | --- |
| **Key** | **Type** | **Description** |
| Success | Boolean | Returns whether the request is successful |
| Data | Object | Stores the information of the file uploaded |
| FileId | Integer | ID of the file uploaded |
| FileName | String | Name of the file uploaded with extension |
| BucketName | String | Bucket name in S3 where the file uploaded is stored |
| FileSize | Long | Size of the file uploaded in bytes |
| CategoryId | Integer | Id of the category where the file uploaded is mapped; null if uncategorized file |
| VersionNumber | Integer | Version number of the file (1 = first version) |
| Thumbnail | String | URI of the thumbnail |
| CloudUrl | String | URL of the file in S3 |
| DateUploaded | Long | Date when the file was uploaded; in milliseconds |

{

"Data": {

"FileId": 1155,

"FileName": "file.jpg",

"BucketName": "aruba-7421911",

"FileSize": 10,

"CategoryId": null,

"VersionNumber": 1,

"Thumbnail": "http://aruba-7420984.dscality.cloud.it/sam\_1a54750.jpg?

AWSAccessKeyId=7420984%40aruba.it&Expires=4630043202&Signature=2pbdYV4feBYGV%2FN H1vzdmG3lAQc%3D",

"CloudUrl": "http://aruba-7420984.dscality.cloud.it/sam\_1a54750.jpg?

AWSAccessKeyId=7420984%40aruba.it&Expires=4630043202&Signature=2pbdYV4feBYGV%2FN H1vzdmG3lAQc%3D",

"DateUploaded": 1506342368736

},

"Success": true

}

# REGISTER FILE

When the device uploads a file directly to S3, this API endpoint shall be called to sync the files between the web app and the mobile device. A successful call/request to this endpoint adds a file record/reference in the Download.It database.

**URI:** /api/File/RegisterFile

**Method:** POST**, type:** JSON

**Request:**

|  |  |  |
| --- | --- | --- |
| **Key** | **Type** | **Description** |
| SessionCode | String | Session code that is used to validate the session |
| UserId | Integer | Unique ID of the user |
| FileName | String | Name of the file with extension |
| FileCloudKey | String | Generated S3 key of the file |
| Thumbnail | String | Generated S3 key of the file thumbnail |
| CategoryId | Integer | Category where the file should be mapped; null if uncategorized |
| Url | String | Pre-signed URL of the file |
| ThumbnailUrl | String | Pre-signed URL of the file thumbnail |

{

"UserId": 2,

"UploadSize": 10,

"FileName": "sam.jpg",

"FileCloudKey": "sam\_1a54750.jpg",

"Thumbnail": "sam\_ada7fa1\_thumbnail.jpg",

"CategoryId": null,

"Url": "http://aruba-7420984.dscality.cloud.it/sam\_1a54750.jpg?

AWSAccessKeyId=7420984%40aruba.it&Expires=4630043202&Signature=2pbdYV4feBYGV%2FN H1vzdmG3lAQc%3D",

"ThumbnailUrl": "http://aruba-7420984.dscality.cloud.it/sam\_1a54750.jpg?

AWSAccessKeyId=7420984%40aruba.it&Expires=4630043202&Signature=2pbdYV4feBYGV%2FN H1vzdmG3lAQc%3D",

"SessionCode": "gXrBjCGk0jaWHK1zwKtwGNG0Qc3AfQNr8drxzJGG fBdUOIvY18Q=="

}

**Sample Response:**

|  |  |  |
| --- | --- | --- |
| **Key** | **Type** | **Description** |
| Success | Boolean | Returns whether the request is successful |
| Data | Object | Stores the information of the file uploaded |
| FileId | Integer | ID of the file uploaded |
| FileName | String | Name of the file uploaded with extension |
| BucketName | String | Bucket name in S3 where the file uploaded is stored |
| FileSize | Long | Size of the file uploaded in bytes |
| CategoryId | Integer | Id of the category where the file uploaded is mapped; null if uncategorized file |
| VersionNumber | Integer | Version number of the file (1 = first version) |
| Thumbnail | String | URI of the thumbnail |
| CloudUrl | String | URL of the file in S3 |
| DateUploaded | Long | Date when the file was uploaded; in milliseconds |

{

"Data": {

"FileId": 1155,

"FileName": "sam.jpg",

"BucketName": "aruba-7421911",

"FileSize": 10,

"CategoryId": null,

"VersionNumber": 1,

"Thumbnail": "http://aruba-7420984.dscality.cloud.it/sam\_1a54750.jpg?

AWSAccessKeyId=7420984%40aruba.it&Expires=4630043202&Signature=2pbdYV4feBYGV%2FN H1vzdmG3lAQc%3D",

"CloudUrl": "http://aruba-7420984.dscality.cloud.it/sam\_1a54750.jpg?

AWSAccessKeyId=7420984%40aruba.it&Expires=4630043202&Signature=2pbdYV4feBYGV%2FN H1vzdmG3lAQc%3D",

"DateUploaded": 1506342368736

},

"Success": true

}

# COPY FILE DOWNLOAD LINK

Returns the file download link that the device should assign to the device’s clipboard for copying.

**URI:** /api/File/ShareFile

**Method:** POST**, type:** JSON

**Request:**

|  |  |  |
| --- | --- | --- |
| **Key** | **Type** | **Description** |
| SessionCode | String | Session code that is used to validate the session |
| UserId | Integer | Unique ID of the user |
| SharedFiles | ArrayObject | List of file IDs to be shared |
| EmailTo | String | Recipient of the email |
| EmailFrom | String | Sender’s email address |
| **Key** | **Type** | **Description** |
| MessageText | String | Message to be included in the email body |
| CategoryId | Integer | ID of the category to share; null when sharing files |
| DurationType | Integer | Expiration of the link (0 = 1 week; 1 = 2 weeks…) |
| ShareToken | String | Token of an existing link; null if new |
| NotificationType | Integer | Determines the notification requested (0 = no action, just returning the link) |

{

"SessionCode":

"UY3jJBaAYGD5O3v0U5WliiytROg42+Ch6MtZH6n3L5rGBP8iN8LPl5CHVnnN2LtGVxhT4V8mWL2/ EtR8zR3/7g==",

"UserId": 48,

"SharedFiles": [

1155

],

"CategoryId": null,

"DurationType": 0,

"ShareToken": null,

"NotificationType": 0

}

**Sample Response:**

|  |  |  |
| --- | --- | --- |
| **Key** | **Type** | **Description** |
| Success | Boolean | Determines whether the request is successful |
| Data | Object | Stores the request data |
| Ok | Boolean | Returns true if the link is generated |
| LinkUrl | String | Download link; shortened using link shortener |
| NotificationType | Integer | Determines the notification requested (0 = just returning the download link; 1 = returns the download link and sends an email notification; 2 = no action as of the moment, can be used to trigger SMS gateway) |
| ShareToken | String | The unique token of the download link |

{

"Success": true,

"Data": {

"Ok": true,

"LinkUrl": "http://shortener.wetechnology.cz/ASmCA1px",

"NotificationType": 0,

"ShareToken": "ASmCA1px"

}

}

# EXCEPTIONS

**Invalid Session:**

The session code passed to the API is invalid or expired.

|  |  |  |
| --- | --- | --- |
| **Key** | **Type** | **Description** |
| Success | String | Determines whether the request is allowed or not |
| Message | String | Description of the error |
| ErrorCode | Integer | Determines the type of error (1 = Invalid Session) |

{

"Success": false,

"ErrorCode": 1,

"Message": "Invalid session."

}

**Data type for a key is wrong:**

The way the JSON request was structured was wrong. A value of one or more keys might have a different data type. For example, the required type is Integer, and the value is a string, or the key is not allowed to be null but the value was null.

|  |  |  |
| --- | --- | --- |
| **Key** | **Type** | **Description** |
| Success | String | Determines whether the request is allowed or not |
| Message | String | Description of the error |
| ErrorCode | Integer | Determines the type of error |
| StackTrace | String | Technical information regarding the API error |

{

"Success": false,

"ErrorCode": 3,

"Message": "An error occurred while updating the entries. See the inner exception for details.",

"StackTrace": " at System.Data.Entity.Internal.InternalContext.SaveChanges()\r\n at DownloadIt.Data.DownloadItDbContext.CreateDownloadLink(String emailFrom, String emailTo, List`1 sharedFiles, String messageText, Int32 userId, Int32 durationType, Nullable`1 categoryId, String shareToken)\r\n at DownloadIt.Web.ShareViaEmailApiRequestModel.Share(DownloadItDbContext db)\r\n at DownloadIt.Web.Controllers.api.FileController.ShareFile(ShareViaEmailApiRequestModel request)" }

**Server Error:**

The API cannot connect to its resources (Aruba API, database, internal functions, etc).

|  |  |  |
| --- | --- | --- |
| **Key** | **Type** | **Description** |
| Success | String | Determines whether the request is allowed or not |
| Message | String | Description of the error |
| ErrorCode | Integer | Determines the type of error |

{

"Success": false,

"ErrorCode": 9,

"Message": "Service unavailable"

}