iTweet Network Protocol

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1. DATA SPECIFICATION

1.1 iTweet (Item)

iTweet data object.

Class itweet.cs —> **new name Item.cs (v1.1)**

Key	Content	source	Data type	Mandatory	Version
deviceId	device id	device	string	yes	v1.0
lat	gps data (google maps)	device	double	yes	v1.0
lng	gps data (google maps)	device	double	yes	v1.0
latDevice	gps data device	device	double	yes	v1.0
lngDevice	gps data device	device	double	yes	v1.0
eleDevice	gps data device	device	double	yes	v1.0
hAccuracy	gps data device	device	double	yes	v1.0
vAccuracy	gps data device	device	double	yes	v1.0
manual	postion set by user	device	byte	yes	v1.0
langISO	language device	device	string	yes	v1.0
countryISO	country device	device	string	yes	v1.0
address	address localisation (google places)	device	string	yes	v1.0
location	place user send message from (google places)	device	string	yes	v1.0
refItemCategoryId	category id	list	int	yes	v1.0
txt	item message	field	string	no	v1.0
mail	mail address	field	string	yes	v1.0
name	person first last name	field	string	if login yes	v1.0, 1.1
fon	person fon	field	string	no	v1.0
uploadHashs	SHA-1 hash (Hex) for key value of media upload		string[]	no	v1.0
loginToken	user identification (id_user)	device	string	yes	v1.1
contextToken	context identification (id_user)	device	string	yes	v1.1

1.2 Category

Category key/value pairs object. Class: category.cs —> **Proposed Category.cs (v1.1)**

Key	Content	source	Data type	Mandatory	Version
id	value form application	appli	int	yes	v1.0
name	value form application	appli	string	yes	v1.0

1.3 Ping

Ping data object. **Proposed class: Tracker.cs (v1.1)**

Key	Content	Source	Data type	Mandatory	Version
uploadTime	duration of item upload	device	double	yes	v1.0
pingTime	dime to get answer from server	device	double	yes	v1.0
countImage	number of image download	device	int	yes	v1.0
voice	is voice download	device	byte	yes	v1.0
latDevice	gps data	device	double	yes	v1.0
lngDevice	gps data	device	double	yes	v1.0
eleDevice	gps data	device	double	yes	v1.0
hAccuracy	gps data	device	double	yes	v1.0
vAccuracy	gps data	device	double	yes	v1.0
provider	device provider	device	string	yes	v1.0
deviceId	device id	device	string	yes	v1.0
guid	generated id	device	string	yes	v1.0

1.4 Login

Login data object. Class: Login.cs

Key	Content	Source	Data type	Mand atory	Version
username	gps data	field	string	yes	v1.1
password	gps data	field	string	yes	v1.1
langISO	language device	device	string	yes	v1.1
countryISO	country device	device	string	yes	v1.1
appId	app identification (Brand app)	device	string	yes	v1.1

1.5 Kontext

Search data object. Class: Context.cs

Key	Content	Source	Data type	Mand atory	Version
urlIconContext	Url to load context icon	device	string	yes	v1.1
displayName	name of the context	device	string	yes	v1.1
contextToken	context identification (id_user)	device	string	yes	v1.1

1.6 Brand

Brand object. Class: Brand.cs

Key	Content	Source	Data type	Mand atory	Version
categrorySelectorColor	color of the selected category	device	string	yes	v1.1
subheaderColor	color subheader	device	string	yes	v1.1
subheaderColorText	text color of the sub header	device	string	yes	v1.1
footerButtonColor	footer button color	device	string	yes	v1.1
footerButtonColorText	footer button text color	device	string	yes	v1.1
urlIconLogo	Url to logo icon	device	string	yes	v1.1

2. NETWORK ENDPOINTS

public static string URL = "www.itweet.ch";
public static string PROTOCOL = "https://";
public static string BASE_URL = PROTOCOL+URL;
public static string DEFAULT_REFERER = "http://ch.wbss.itweet";

2.1 /mvc/mobile/[version]/item/{GUID}

- request item data to mobile interface
- request formate is json
- response is http status (if region constrain throw http status 403 not allowed and status message)
- no media data! Media are send as byte array separately

- request DELETE delete item form application
- response is http status and http message

HTTP action	Behaviour	Mandatory	Version
PUT	Send item.cs object to mobile interface	Yes	1.0
DELETE	Delete item form server use GUID	Yes	1.0

2.2 /mvc/mobile/[version]/media/{SHA-1}

- request media data to mobile interface
- formate byte array
- mime type ist set in header content type
- sha-1 160 char hex string for each media upload
- response is http status

HTTP action	Behaviour	Mandatory	Version
PUT	Send media to mobile interface	Yes	1.0

2.3 /mvc/mobile/[version]/categories/

- {lang}/{token}
- request is GET to mobile interface
- response formate is json

{

    displayName:<string>,

    categories:[

    { id:<int>, name:"<string>",

    {…,…},…]

}

HTTP action	Behaviour	Mandatory	Version
GET	Get categories lang translated	Yes	1.0

2.4 /mvc/mobile/[version]/ping/

- request is GET to mobile interface (test connectivity to application and database)
- response is http status

- request tracker data to mobile interface
- response is http status

HTTP action	Behaviour	Mandatory	Version
GET	Waite 250msec, call refItemCategoryService on to database	Yes	1.0
PUT	Send tracker data to mobile interface	Yes	1.0

2.5 /mvc/mobile/[version]/login/

- request formate is json use Login.cs

```
{
        username:"<string>",
        password:"<string>",
        langISO:"<string>",
        countrySO:"<string>"
        appId:"<string>
}
```

- response formate is json

```
{
        loginToken:<double>
        showContext:"<false | true>" (default true)
        createMessageAllowed"<false | true>" (default true)
}
```

HTTP action	Behaviour	Mandatory	Version
PUT	Send login data to mobile interface	Yes	1.1

2.6 /mvc/mobile/[version]/items/

- {appId}/{lngDevice}/{langISO}/{countryISO}/{device}/{token}
- request is GET to mobile interface
- response HTML5 into the HTML5 view container

HTTP action	Behaviour	Mandatory	Version
GET	Get html5 to ViewContainer	Yes	1.1

2.7 /mvc/mobile/[version] /contexts/

- {appId}/{latDevice}/{lngDevice}/{langISO}/{countryISO}/{device}/{token}
- request is GET to mobile interface
- response is a json list

```
{ contexts= [
        {
                contextToken:"<string>",
                urlIconContext: "<string>",
                displayName="<string>"
        {…,…,…},..]
}
```

HTTP action	Behaviour	Mandatory	Version
GET	Get context list back	Yes	1.1

2.8 /mvc/mobile/[version]/brand/

- {langISO}/{countryISO}/{device}/{token}
- request is GET to mobile interface
- response formate is json

```
{
        categrorySelectorColor: "<string>",
        subheaderColor: "<string>",
        subheaderColorText:"<string>"
        footerButtonColor:"<string>",
        footerButtonColorText:"<string>",
        urlIconLogo:"<string>",
}
```

HTTP action	Behaviour	Mandatory	Version
GET	Get brand data back	Yes	1.1