**IndiaToday SSO Implementation**

# 1 IndiaToday SSO Implementation

## 1.1 Prerequisites to the implementation

1. The site must be registered to be integrated with SSO. The site will be provided a site Id which only that site must use in its APIs.
2. The site must register its servers with SSO from which it will make the call to SSO. This is required because some of the APIs to SSO can only be made from the whitelisted servers.

# 2 User Registration Process Workflow

For adding a new users application needs to follow the registration process.

SSO has 2 types of users

1. User ID users
2. Email Id Users

Email Id users can be divided in two parts

* 1. IndiaToday Email ID users
  2. Others Email ID Users

User id based users and user with indiatoday.in email id can login directly to indiatoday network, while users with email id other than indiatoday.in need to register and activate email id.

## 2.1 indiatoday.in Email id users

* User with valid indiatoday.in email id are already registered to SSO, they can directly use their email id to login
* To check if a user with indiatoday.in email id exists in the database use the API CheckUserExist

[http://sso.indiatoday.com/sso/isEmailIdAvailable?emailid=suhastest1234@indiatoday.in&siteid=ef55d27920fbf01f58c0da43430f5c6a](http://jsso.indiatoday.com/sso/isEmailIdAvailable?emailid=suhastest1234@indiatoday.com&siteid=ef55d27920fbf01f58c0da43430f5c6a)

this API with return the out put

<status>0</status>: user already exists and email id is not available

<status>1</status>: user is not exists in DB and it’s not a vaild email id

## 2.2 Other Email id users

* User fills registration form of the application.
* SSO API - Add User Profile adds the user profile as inactivated users and generates the verification code for the verification. Application will call this ADD User Profile API

[http://sso.indiatoday.com/sso/InsertUserProfile?emailid=suhasagg@gmail.com&firstname=Suhas&lastname=Aggarwal&password=123&mobile=1234567899&dob=12/3/2003&siteid=ef55d27920fbf01f58c0da43430f5c6a](http://jsso.indiatoday.com/sso/InsertUserProfile?emailid=suhasagg@gmail.com&firstname=Suhas&lastname=Aggarwal&password=123&mobile=1234567899&dob=12/3/2003&siteid=ef55d27920fbf01f58c0da43430f5c6a) and pick <VerificationCode>.

* Application will prepare some URL like ([http://businesstoday.in/activate?hs="](http://businesstoday.in/activate?hs=%22)verification code") and send this link in email to user.
* User will click on this link and the application will internally call our activation API [http://sso.indiatoday.com/sso/ActivateEmailId?hashcode=ZHRzdGM0eGNhMG54ajhsMm5zMWQzbHg2cjpuaXRpbjEyM0BnbWFpbC5jb20=&siteid=ef55d27920fbf01f58c0da43430f5c6a](http://jsso.indiatoday.com/sso/ActivateEmailId?hashcode=ZHRzdGM0eGNhMG54ajhsMm5zMWQzbHg2cjpuaXRpbjEyM0BnbWFpbC5jb20=&siteid=ef55d27920fbf01f58c0da43430f5c6a).
* The SSO API will send application result <status>true</status> or <status>false</status> based on the user is activated or not activated.
* The application redirects user based on the response.

Diagram

Description automatically generated

Figure 6: Sequence Diagram for Registration Process

# 3 Update User Profile Process Workflow

Steps of update user profile:

* User fill update the detail form of the application.
* Application will call SSO API Update User Profile.

[http://sso.indiatoday.com/sso/UpdateUserProfile?emailid=suhasagg@gmail.com&firstname=Suhas&lastname=Aggarwal&password=1234&dob=1223/3456&ipaddress=qw&sitereg=sd&gender=M&city=&state=&country=&secques=&secans=&mobile=&pin=&siteid=ef55d27920fbf01f58c0da43430f5c6a](http://jsso.indiatoday.com/sso/UpdateUserProfile?emailid=suhasagg@gmail.com&firstname=Suhas&lastname=Aggarwal&password=1234&dob=1223/3456&ipaddress=qw&sitereg=sd&gender=M&city=&state=&country=&secques=&secans=&mobile=&pin=&siteid=ef55d27920fbf01f58c0da43430f5c6a)

* This API can be called from browser or it can be a server to server call
* The SSO API will send application result <status>true</status> or <status>false</status> based on the user details are updated or not

Note: SSO will interact with the application only.

Diagram

Description automatically generated

Figure 6: Sequence Diagram for Update user profile Process

# 4 Change Old Password Workflow

To change the password if user knows the password application will call changeOldPassword API. The input to the API is

1. email id of the user

2. old password

3. new password

4. site id.

[http://sso.indiatoday.com/sso/changeOldPassword?emailid=suhasagg@indiatoday.in&oldPassword=Suhasg&newPassword=Suhasg1&siteid=ef55d27920fbf01f58c0da43430f5c6a](http://jsso.indiatoday.com/sso/changeOldPassword?emailid=suhasagg@indiatoday.com&oldPassword=Suhasg&newPassword=Suhasg1&siteid=ef55d27920fbf01f58c0da43430f5c6a)

in return of this API application get the XML output as status with value true/false

for eg.

<status>true</status>

When password is updated successfully status true is returned, otherwise status false is returned.

**Error Handling:**

* + Site id is incorrect: Error message with error code E108 is thrown.
  + Some Insertion Error: Error message with error code E101 is thrown.

Diagram

Description automatically generated

Note: changeOldPassword and ChangeOldPassword are two different API

# 5 Retrieve Forgot Password Workflow

The IndiaToday channels collectively use user id based APIs as well as email based APIs for accessing user information. In order to allow all types of users (with user id or email id as unique identifier) to change password, we need to implement the following two different processes:

Users with indiatimes.com emailed can retrieve their password from by redirecting the application to following link

[http://register.indiatoday.in/signup/forgot\_psswd1.jsp](http://register.indiatoday.com/signup/forgot_psswd1.jsp)

or they can use the below process

## 5.1 Forgot Password Workflow for Indiatoday.in Users

The steps to get new password in case of forgot password:

1. The application will call SSO with the following API [http://sso.indiatoday.com/sso/ForgotQuestion?User=testuser&siteid=ef55d27920fbf01f58c0da43430f5c6a](http://jsso.indiatoday.com/sso/ForgotQuestion?User=testuser&siteid=ef55d27920fbf01f58c0da43430f5c6a)

The API will give password question as output. This question was selected by the user during registration process.

2. The question will be shown to user on some form at application end.

3. The user will enter the answer (this was entered by the user during registration process).

4. The application will call forgot password API (at SSO end):

[http://sso.indiatoday.com/sso/ForgotPassword?User=Suhas&PasswordQues=what](http://jsso.indiatoday.com/sso/ForgotPassword?User=Suhas&PasswordQues=what) is mypet’s name?&PasswordAns=billi&siteid=3b7afdd57ace08aceb89fef03b7d9a7c

5. SSO will send user password or some error message as response after validating the security answer against security question chosen by the user.

6. The result will be used at the application end for redirecting the user accordingly.

Diagram

Description automatically generated

Figure 7: Retrieve Password for Used Based APIs

## 5.2 Forgot Password Workflow for Email Based Access

The steps to get new password in case of forgot password:

1. The application will call SSO with the following API [http://sso.indiatoday.com/sso/RequestChangePassword?emailid=suhasagg@gmail.com&siteid=ef55d27920fbf01f58c0da43430f5c6a](http://jsso.aajtak.com/sso/RequestChangePassword?emailid=suhasagg@gmail.com&siteid=ef55d27920fbf01f58c0da43430f5c6a)

The API will give auth token as output which is the authority token.

2. The token will be mailed to the user in some link (of change password page at application end).

3. The user will click on the link and will fill email id and new password and then submit the form.

4. The application will call change password API (at SSO end):

[http://sso.indiatoday.com/sso/ChangeOldPassword?emailid=suhasagg@gmail.com&siteid=ef55d27920fbf01f58c0da43430f5c6a&password=suhasg&authtoken=a9b2b13cca472136665f864445cece22](http://jsso.indiatoday.com/sso/ChangeOldPassword?emailid=suhasagg@gmail.com&siteid=ef55d27920fbf01f58c0da43430f5c6a&password=suhasg&authtoken=a9b2b13cca472136665f864445cece22)

The auth token parameter value should be same as passed in step 1.

5. SSO will changed password after validating auth token and give status true/ false based on the validation.

6. The result will be used at the application end for redirecting the user accordingly.

Timeline

Description automatically generated

Figure 8: Sequence Diagram for Retrieving Forget Password

# 6 LOGIN FLOW

## 6.1 Login with Email Id and Password

In general, the user enters his userid/email Id and password, and calls SSO APIs. If the login id and password combination is correct, the application returns a ticket, or if it is incorrect, the application returns an error.

users with indiatoday.in email id can login as userid based user also, userid for the users will be emailed without @indiatoday.in

Depending on whether the application passed a ‘ru’(redirect url) and an ‘nru’(non redirect url) or not, the application can be redirected to the error or success page, or return error or success data.

In case the email id password combination is successful, and the application gets the ticket, application makes another call to the server with the ticket id to get the details of the user.

* Application calls SSO API to login passing the site id, email address, password.
* SSO validates the user credentials, and gives back an error or redirects to ‘nru’ with the error code if the login is not correct.
* If the login credentials are correct, the application returns a ticket id or redirects to ‘ru’ with the ticket id.
* The application calls SSO again with the ‘ticket id’ and SSO returns the data of the user who was successful in the login.
* The application can put the data in the application session or in the cookies.

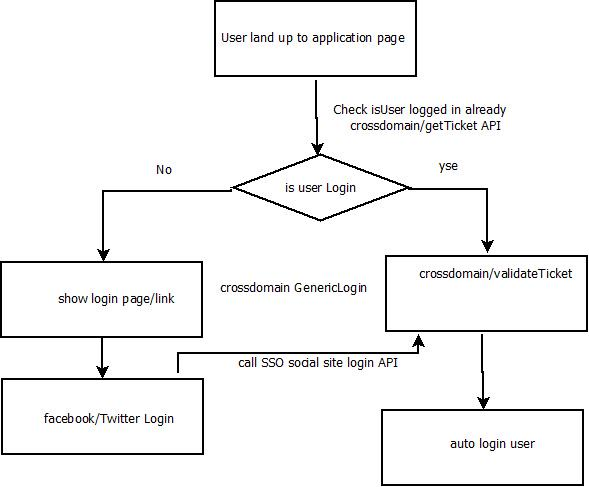
Note: The below API calls to SSO should be made after checking that the user is not logged in to SSO. Also, the ‘genericLogin’ call should be made from the browser and should not be made from curl or by making a new Java Hub and Spokeion. This is because after the user logs in, SSO needs to set the ticket Id in the browser cookie in the IndiaToday domain.

APIs to be used for the above (Non redirection flow).

* [http://sso.indiatoday.com/sso/crossdomain/genericLogin?login=suhasagg@gmail.com&passwd=abcd@xyz&siteId=2f00a3ebecd6e1d7b9f725e072249883](http://jsso.indiatoday.com/sso/crossdomain/genericLogin?login=suhasagg@gmail.com&passwd=abcd@xyz&siteId=2f00a3ebecd6e1d7b9f725e072249883)&callback=function
* [http://sso.indiatoday.com/sso/crossdomain/validateTicket?ticketId=04a7f0892cbf4c36a00ff3575e538925&siteId=2f00a3ebecd6e1d7b9f725e072249883](http://jsso.indiatoday.com/sso/crossdomain/validateTicket?ticketId=04a7f0892cbf4c36a00ff3575e538925&siteId=2f00a3ebecd6e1d7b9f725e072249883)

APIs to be used for the above (Redirection flow).

* [http://sso.indiatoday.com/sso/crossdomain/genericLogin?login=suhasagg@gmail.com&passwd=abcd@xyz&siteId=2f00a3ebecd6e1d7b9f725e072249883&ru=http://aajtak.in/login/validateTicket.php&nru=http://aajtak.in/login.php](http://jsso.indiatoday.com/sso/crossdomain/genericLogin?login=suhasagg@gmail.com&passwd=abcd@xyz&siteId=2f00a3ebecd6e1d7b9f725e072249883&ru=http://aajtak.com/login/validateTicket.php&nru=http://aajtak.com/login.php)
* [http://sso.indiatoday.com/sso/crossdomain/validateTicket?ticketId=<ticketId>&siteId=2f00a3ebecd6e1d7b9f725e072249883&ru=http://aajtak.in/login.php](http://jsso.indiatoday.com/sso/crossdomain/validateTicket?ticketId=%3cticketId%3e&siteId=2f00a3ebecd6e1d7b9f725e072249883&ru=http://aajtak.com/login.php)



## 6.2 Login with Social Networking sites.

For using Social Hub and Spoke application needs to use facebook/twitter API to get the data of the user. This data will be used in the SSO API parameters.

After calling facebook/twitter API for social Hub and Spoke the application should call the SSO social Hub and Spoke API with the parameter

### 6.2.1 Facebook API for social Hub and Spoke

For getting the user information from facebook, application can use below process

1. First Application will call the graph API of facebook

[https://graph.facebook.com/oauth/authorize?client\_id=117787264903013&display=popup&redirect\_uri=http://socialappsintegrator.indiatoday.in/socialsite/facebookresponse&scope=email,offline\_access,user\_birthday,user\_about\_me,user\_hometown,user\_location,publish\_stream,user\_online\_presence,user\_photos,publish\_actions](https://graph.facebook.com/oauth/authorize?client_id=117787264903013&display=popup&redirect_uri=http://socialappsintegrator.indiatoday.com/socialsite/facebookresponse&scope=email,offline_access,user_birthday,user_about_me,user_hometown,user_location,publish_stream,user_online_presence,user_photos,publish_actions)

this API will give the code in the redirect url. For e.g.

output redirect url:

[http://socialappsintegrator.indiatoday.in/socialsite/facebookresponse?code=AQC-Q5jFtJs75jRMtOzQvnEbCcvYrLt9NktyzvKnc9JXZ3xcDxGJgilVdS1sPM1NHM36nnG5t2\_kKnTaUqtMYgJ8ERcipTnrSOGwDdQJQ8JQjYNgOS-8QLB\_0-mAmVCxx\_\_Ih\_2csDu-4-lwUBdTZFstX5-wFwtNmXt8p904qc2fxxG0CgAC90uurXXi4OYjAoBmCDdXKtdw\_1uf1BpCSzDY#\_=\_](http://socialappsintegrator.indiatoday.com/socialsite/facebookresponse?code=AQC-Q5jFtJs75jRMtOzQvnEbCcvYrLt9NktyzvKnc9JXZ3xcDxGJgilVdS1sPM1NHM36nnG5t2_kKnTaUqtMYgJ8ERcipTnrSOGwDdQJQ8JQjYNgOS-8QLB_0-mAmVCxx__Ih_2csDu-4-lwUBdTZFstX5-wFwtNmXt8p904qc2fxxG0CgAC90uurXXi4OYjAoBmCDdXKtdw_1uf1BpCSzDY#_=_)

2. Code in the result of graph API and client\_secret parameters need to use in the next server to server call of the API of access token

[https://graph.facebook.com/oauth/access\_token?client\_id=117787264903013&redirect\_uri=http://socialappsintegrator.indiatoday.in/socialsite/facebookresponse&client\_secret=65fc0c185a330ac97bdb844d078000b3&code=AQC-Q5jFtJs75jRMtOzQvnEbCcvYrLt9NktyzvKnc9JXZ3xcDxGJgilVdS1sPM1NHM36nnG5t2\_kKnTaUqtMYgJ8ERcipTnrSOGwDdQJQ8JQjYNgOS-8QLB\_0-mAmVCxx\_\_Ih\_2csDu-4-lwUBdTZFstX5-wFwtNmXt8p904qc2fxxG0CgAC90uurXXi4OYjAoBmCDdXKtdw\_1uf1BpCSzDY#\_=\_](https://graph.facebook.com/oauth/access_token?client_id=117787264903013&redirect_uri=http://socialappsintegrator.indiatoday.com/socialsite/facebookresponse&client_secret=65fc0c185a330ac97bdb844d078000b3&code=AQC-Q5jFtJs75jRMtOzQvnEbCcvYrLt9NktyzvKnc9JXZ3xcDxGJgilVdS1sPM1NHM36nnG5t2_kKnTaUqtMYgJ8ERcipTnrSOGwDdQJQ8JQjYNgOS-8QLB_0-mAmVCxx__Ih_2csDu-4-lwUBdTZFstX5-wFwtNmXt8p904qc2fxxG0CgAC90uurXXi4OYjAoBmCDdXKtdw_1uf1BpCSzDY#_=_)

This API will give the the token in the output

Output e.g.

access\_token=AAABrIHwVZA2UBAJrCoMtLNodfZCoFAZBl7BX2MKZAmKZAgNc0KlzJDWo740wvILSZBuhmkTfsgKoQ1BPhInPZBCAHvcZCdEoOUjSrL4EcniZC0gZDZD&expires=5183352

3. Application needs to call the graph API of facebook with the access token that will provide the facebook details of the users

<https://graph.facebook.com/me?access_token=AAABrIHwVZA2UBAJrCoMtLNodfZCoFAZBl7BX2MKZAmKZAgNc0KlzJDWo740wvILSZBuhmkTfsgKoQ1BPhInPZBCAHvcZCdEoOUjSrL4EcniZC0gZDZD&fields=id,first_name,last_name,name,link,birthday,email,hometown,location,gender,religion,verified>

this API will provide the details of the facebook users.

Output for e.g.:

{  
"id": "100004495030000",  
"first\_name": "Suhas",  
"last\_name": "Aggarwal",  
"name": "Suhas.Aggarwal",  
"link": "[http://www.facebook.com/Suhas.Aggarwal.315](http://www.facebook.com/nitin.gautam.315)",  
"birthday": "07/27/1990",  
"email": "suhasagg@gmail.com",  
"gender": "male",  
"verified": true  
}

### 6.2.2 Twitter API for social Hub and Spoke

Please check the twitter API from following links

<https://dev.twitter.com/docs/twitter-libraries>

Please check the library used in the twitter API for java applications

<http://twitter4j.org/en/index.html>

### 6.2.3 SSO API for Social Hub and Spoke

Implementation of login with social networking sites should be done by the application as explained above, however once an application logs in to a social networking site, it should notify SSO that it has logged in to that site. This will allow SSO to create SSO user for that email address if not already present, and also allow the auto login functionality when the user navigates from one site to another.

The application needs to make the following SSO call after a user logs in to that application from a social networking site.

[http://sso.indiatoday.com/sso/crossdomain/socialsitelogin?siteid=2f00a3ebecd6e1d7b9f725e072249883&email=suhasagg@gmail.com&oauthid=979850508&oauthsiteid=facebook&securitykey=AAABrIHwVZA2UBADWtt05vgqc8dtzt385ks98XaXocdjuTpDcAOQS9YBhZAHBDSnMZBEgeMKNAtAAcswYulI72QMFcsT2Yz1fOEnvp4jrAZDZD&update=true&firstname=Suhas&lastname=Aggarwal&dob=27/07/1990&gender=M&hometown=ghsgs&location=Noida&showimage=1&imagepath=abc&ru=http://aajtak.in/welcome.php&nru=http://aajtak.in/login.php](http://jsso.indiatoday.com/sso/crossdomain/socialsitelogin?siteid=2f00a3ebecd6e1d7b9f725e072249883&email=suhasagg@gmail.com&oauthid=979850508&oauthsiteid=facebook&securitykey=AAABrIHwVZA2UBADWtt05vgqc8dtzt385ks98XaXocdjuTpDcAOQS9YBhZAHBDSnMZBEgeMKNAtAAcswYulI72QMFcsT2Yz1fOEnvp4jrAZDZD&update=true&firstname=Suhas&lastname=Aggarwal&dob=27/07/1990&gender=M&hometown=ghsgs&location=Noida&showimage=1&imagepath=abc&ru=http://timescity.com/welcome.php&nru=http://timescity.com/login.php)

Out of the parameters above,

siteid => siteid of the application

oauthsiteid => can be facebook or twitter

oauthid => id returned by the social networking site. (id of the facebook API)

securitykey => access token returned by the social networking site.(access token of the facebook API)

email => email id with which the user logged in to the social networking site.

ru => url where the ticket id is passed.

nru => url where the application redirects if there is an error.

update => can be true or false, if the application intends to update the user data, it should be true, otherwise, all the below params will be ignored.

firstname => firstname of the user if obtained from social networking site.

lastname => lastname of the user if obtained from social networking site.

dob => dob of the user.

gender => gender of the user

hometown => hometown of the user.

location => location of the user

showimage => ‘1’ or ‘0’, not used currently.

imagepath => image path, not used currently.

Callback=> function name for jsonp response.

# 7 AUTO LOGIN FLOW

If a user is already logged in to indiatoday network, then the user should automatically be logged in when the user navigates to the application in indiatoday network.

The application should follow the following steps for the auto login functionality.

* The application calls SSO to check whether any user is logged in to indiatoday SSO network.
* If the user is logged in to the session, SSO returns a user ticket to the application.
* The application then calls SSO to get the data of the user who is logged in, and the login type with which he logged in (facebook/twitter/sso).
* If SSO returns that the user is not logged in to IndiaToday SSO network, the application can follow its own procedure, i.e. it may show a user the options on how he wants to log in (facebook/twitter/sso) or it may do nothing, and wait for the user to click on login button.

Note: If the user is logged in to SSO, and the application does not provide auto login functionality, and logs in the user with a different credentials with which he is logged in currently, it will cause the existing user to log out of the IndiaToday SSO network, causing a potentially undesirable user experience for the user on the IndiaToday network. Hence it is strongly recommended for an application which is using SSO to provide auto login functionality.

For Auto Login, there are two possible flows which the application can use.

**Case 1: Non redirection flow:** This flow is normally used when an application wants to get the user details in the session, and update some portion of the web page. Eg. When we go to [http:/www.indiatoday.in](http://www.timesofindia.indiatimes.com), the webpage displays the user details, if the user is already logged in on the top, and shows the links to login via facebook, twitter or SSO if the user is not logged in. This flow should be used if we want the user to login without redirecting the user to a page if the login is unsuccessful.

**Case 2: Redirection flow:** This flow is used when an application wants to be redirected to its login page, if the user is not logged in, or to go to a welcome page, if the user is logged in.

## 7.1 Non Redirection flow:

Below is the flow for the Non Redirection flow.

1. Application calls SSO API from the browser to check if a valid login ticket is present in the session.
2. If the ticket is not returned by the SSO, the application can handle it in its own way, eg. It can just display the button to login or can open up a pop up to prompt the login.
3. If the ticket is returned from #1, then application makes a server to server call to the SSO API with the ticket id and the site id, and gets the data of the user who is logged in currently to SSO.
4. The application handles the data returned from #3 in its own way. It can put the data in the session or create appropriate cookies.

APIs to call in this flow.

1. [http://sso.indiatoday.com/sso/crossdomain/getTicket?callback=function](http://jsso.indiatoday.com/sso/crossdomain/getTicket?callback=function)

callback is a optional parameter, this parameter needs to be used in jsonp request

Data returned will be

{"status":"false","ticketId":""}

Or

{"status":"true","ticketId":"04a7f0892cbf4c36a00ff3575e538925"}

If the ticket Id is returned, the next API will be crossdomain/validateTicket API. This API will be a server to server call,

1. [http://sso.indiatoday.com/sso/crossdomain/validateTicket?ticketId=04a7f0892cbf4c36a00ff3575e538925&siteId=2f00a3ebecd6e1d7b9f725e072249883&type=JSON](http://jsso.indiatoday.com/sso/crossdomain/validateTicket?ticketId=04a7f0892cbf4c36a00ff3575e538925&siteId=2f00a3ebecd6e1d7b9f725e072249883&type=JSON)

The data returned will be

{"code":"200","userId":"f4gs3zv0m72wggvhwlsg5oshs","emailId":"suhasagg@gmail.com","primaryEmailId":"suhasagg@gmail.com","createdDt":"2021-02-17 00:00:00.0","dateRegistered":"2021-02-17 00:00:00.0","firstName":"Suhas","address":"127.0.0.1","mobilephone":"9315852605","userType":"1", “lastLoginType”:”facebook”}

The application can put the data in the application session or in the cookies.

## 7.2 Redirection Flow:

Below is the flow for redirection based flow.

* Application calls SSO API to check whether a user is logged in to sso passing the site id, the redirect url (ru), non redirect url (nru).
* If SSO finds out that a user is logged in, the application is redirected to the application url ‘ru’ by passing the ticket id.
* The application handles the ‘ru’ redirect by calling the SSO API which returns the data for the user for that ticket.
* The application can put the data in the application session or in the cookies.

APIs for redirection based flow.

* [http://sso.indiatoday.com/sso/crossdomain/getTicket?ru=http://aajtak.in/validateTicket.php&nru=http://aajtak.in/login.php](http://jsso.indiatoday.com/sso/crossdomain/getTicket?ru=http://aajtak.com/validateTicket.php&nru=http://aajtak.com/login.php)
* [http://sso.indiatoday.com/sso/crossdomain/validateTicket?ticketId=04a7f0892cbf4c36a00ff3575e538925&siteId=2f00a3ebecd6e1d7b9f725e072249883&type=JSON&ru=http://aajtak.in/welcome.php&nru=http://aajtak.in/login.php](http://jsso.aajtak.com/sso/crossdomain/validateTicket?ticketId=04a7f0892cbf4c36a00ff3575e538925&siteId=2f00a3ebecd6e1d7b9f725e072249883&type=JSON&ru=http://aajtak.com/welcome.php&nru=http://aajtak.com/login.php)

In case the user is not logged in to SSO directly, and the above redirection/non redirection flow don’t return a ticket, and the user is redirected to the login page. The user then needs to login using email id and password or login through social networking sites (facebook/twitter).

**Note**: [http://sso.indiatoday.com/sso/crossdomain/getTicket](http://jsso.indiatoday.com/sso/crossdomain/getTicket) This call to get the ticket(with or without the redirection flow) should originate from the browser because SSO will need to read the cookies in IndiaToday domain, eg, in php, the call should not be made from curl, but should be made directly from the browser.

# 

# 8 LOGOUT FLOW

When the application wants to logout, it should remove its own cookies/invalidate its session, and redirect to the following,

[http://sso.indiatoday.com/sso/GenericLogout?siteid=ef55d27920fbf01f58c0da43430f5c6a&nru=http://www.aajtak.in](http://jsso.indiatoday.com/sso/GenericLogout?siteid=ef55d27920fbf01f58c0da43430f5c6a&nru=http://www.aajtak.com)

Diagram

Description automatically generated

Note: nru is required in Logout flow.