

A complex network diagram on a dark blue background. It features numerous nodes of varying sizes and colors (white, teal, orange, yellow, green, blue, pink, red) connected by thin grey lines. Some nodes are highlighted with larger, colored circles. Three large, semi-transparent rectangular boxes in blue, pink, and green are overlaid on the network, each enclosing a different cluster of nodes. Labels for various concepts are scattered throughout the network, including 'platforms', 'policy', 'infrastructure', 'regulations', 'big data', 'bio banks', 'data brokers', 'database agriculture', 'smart cities', 'genomics', 'analytics', 'privacy', 'drones', 'predictive po', 'credit scoring', 'sharing economy', 'archiving', 'surveillance', 'urban informatics', 'curation', and 'global'.

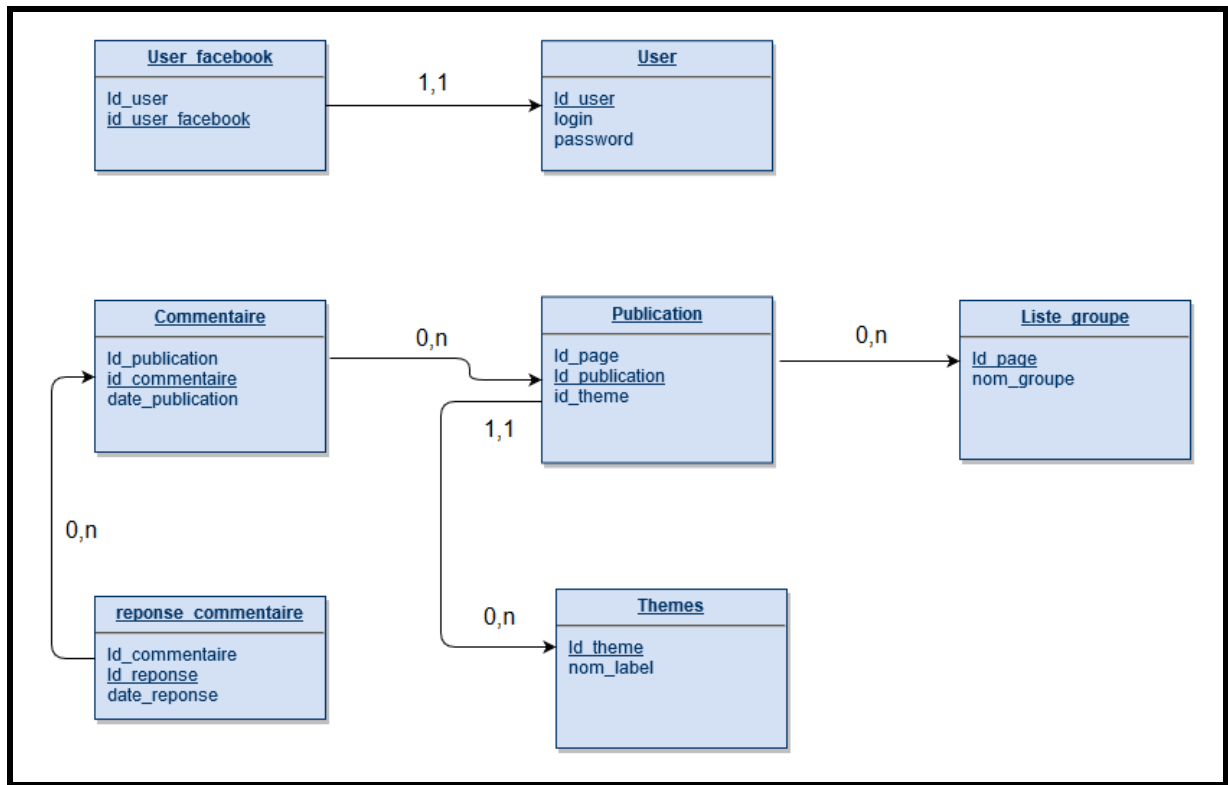
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# ANNEXES

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## Annexe 0 : Schéma Entité/association

Schéma de l'organisation du stockage des données d'Oping



## Annexe 1 : Code Inscription et Connexion

```
public function facebookInfo() {  
    $facebook = new Facebook\Facebook([  
        'app_id' => $this->_app_id,  
        'app_secret' => $this->_app_secret,  
        'default_graph_version' => $this->_default_graph_version,  
    ]);  
  
    return $facebook;  
}
```

Extrait de la fonction effectuant le lien vers l'API

```
static function get_info($fb) {  
  
    $access_token = $fb->getRedirectLoginHelper()->getAccessToken();  
    $_SESSION['token'] = $access_token;  
    if (isset($access_token)) {  
        try {  
            $response = $fb->get('/me', $access_token);  
            $fb_user = $response->getGraphUser();  
            inscription_user($fb_user->getName());  
            header( "string: 'refresh:1;url=/oping/index.php/affichage_identifiant' " );  
        } catch (\Facebook\Exceptions\FacebookResponseException $e) {  
            echo 'Graph returned an error: ' . $e->getMessage();  
        } catch (\Facebook\Exceptions\FacebookSDKException $e) {  
            echo 'Facebook SDK returned an error: ' . $e->getMessage();  
        }  
    }  
}
```

Récupération des données de l'utilisateur lors de l'inscription

```
// Génération d'une chaîne aléatoire  
function chaine_aleatoire($nb_car, $chaine = 'azertyuiopqsdghjklmwxvbn123456789')  
{  
    $nb_lettres = strlen($chaine) - 1;  
    $generation = '';  
    for ($i = 0; $i < $nb_car; $i++) {  
        $pos = mt_rand(0, $nb_lettres);  
        $car = $chaine[$pos];  
        $generation .= $car;  
    }  
    return $generation;  
}
```

Génération de mot de passe

```
static function is_user($login, $password)
{
    $isuser = False;
    $link = open_database_connection();
    $query = 'SELECT password FROM user WHERE login="' . $login . '"';
    $sqlreponse = mysqli_query($link, $query);
    $result = mysqli_fetch_assoc($sqlreponse);

    if($password == $result['password']){
        $isuser = True;
    }

    close_database_connection($link);
    return $isuser;
}
```

On vérifie si les champs renseignés dans le formulaire de connexion renvoient bien vers un utilisateur d'OPING

## Annexe 2 : Code Publication

```
static function get_group(){  
  
    $app = new Information_app();  
    $facebook = $app->facebookInfo();  
    $token = $app->getAccessToken();  
    try {  
        $response = $facebook->get(endpoint: '/me/groups', $token);  
    } catch (Facebook\Exceptions\FacebookResponseException $e) {  
        echo 'Graph returned an error: ' . $e->getMessage();  
        exit;  
    } catch (Facebook\Exceptions\FacebookSDKException $e) {  
        echo 'Facebook SDK returned an error: ' . $e->getMessage();  
        exit;  
    }  
    $graphEdge = $response->getGraphEdge();  
    return $graphEdge;  
}
```

Fonction pour récupérer les groupes auxquels appartient l'utilisateur

```
function action_publier(){  
  
    $publication = new Publication();  
    $publication->setMessage($_POST['message']);  
    $publication->setLink($_POST['lien']);  
  
    foreach($_POST['groupe'] AS $groupe) {  
        $publication->setIdPage($groupe);  
        $id_publication = $publication->publier();  
        $publication->insert_id_publication($publication->getIdPage(), $id_publication);  
        $id_theme = Themes::select_id_theme($_POST['theme']);  
        Themes::insert_theme($id_publication, $id_theme);  
    }  
}
```

Fonction pour la publication sur les groupes cibles.

```
public function get_com_facebook(){  
  
    $app = new Information_app();  
    $facebook = $app->facebookInfo();  
    $token = $app->getAccessToken();  
  
    try {  
        $response = $facebook->get(  
            endpoint: "/" . $this->_id_page . "_" . $this->_id_publication . "/comments?limit=5000", $token  
        );  
    } catch (Facebook\Exceptions\FacebookResponseException $e) {  
        echo 'Graph returned an error: ' . $e->getMessage();  
        exit;  
    } catch (Facebook\Exceptions\FacebookSDKException $e) {  
        echo 'Facebook SDK returned an error: ' . $e->getMessage();  
        exit;  
    }  
    $graphEdge = $response->getGraphEdge();  
    return $graphEdge;  
}
```

## Annexe 3 : Récupération de commentaires par id publication

On peut, grâce à l'API, obtenir les commentaires des personnes sur une publication

```
public function get_repons_com_facebook(){

    $app = new Information_app();
    $facebook = $app->facebookInfo();
    $token = $app->getAccessToken();
    try {
        $response = $facebook->get(
            endpoint "/" . $this->_id_page . "_" . $this->_id_publication . "_" . $this->_id_commentaire . "/comments?limit=5000", $token
        );
    } catch (Facebook\Exceptions\FacebookResponseException $e) {
        echo 'Graph returned an error: ' . $e->getMessage();
        exit;
    } catch (Facebook\Exceptions\FacebookSDKException $e) {
        echo 'Facebook SDK returned an error: ' . $e->getMessage();
        exit;
    }
    $graphEdge = $response->getGraphEdge();
    return $graphEdge;
}
```

Mais aussi, faire la distinction entre les commentaires et les réponses associées à ces derniers.

```
public function recuperer_commentaires()
{
    $entete = array("Date","Heure","CommentaireId","CommentaireContent");
    $graphEdge = $this->get_com_facebook();
    $fp = fopen( filename: 'file.csv', mode: 'w');
    fputcsv($fp, $entete);

    foreach ($graphEdge as $GraphNode) {
        $this->setDateCommentaire($GraphNode["created_time"]->format('Y-m-d'));
        $heure = $GraphNode["created_time"]->format('H-i-s');
        $this->setContenuCommentaire($GraphNode["message"]);
        $this->setIdCommentaire($GraphNode["id"]);

        fputcsv($fp, array($this->getDateCommentaire(), $heure, $this->getIdCommentaire(), $this->getContenuCommentaire()));
        $reponse = $this->get_repons_com_facebook();

        foreach ($reponse AS $oneReponse){
            $this->setDateCommentaire($GraphNode["created_time"]->format('Y-m-d'));
            $heure = $GraphNode["created_time"]->format('H-i-s');
            $this->setContenuCommentaire($oneReponse["message"]);
            $this->setIdReponse($oneReponse["id"]);

            fputcsv($fp, array($this->getDateCommentaire(), $heure, $this->getIdCommentaire().'_'. $this->getIdReponse(), $this->getContenuCommentaire()));
        }
    }
    fclose($fp);
    header( string: 'Content-type: application/csv');
    header( string: 'Content-Disposition: attachment; filename="'. 'file.csv' .'"');
    readfile( filename: 'file.csv');
    header ( string: "Refresh: 1;URL=../View/vue.php");
}
```

Le code ci-dessus, permet de récupérer les commentaires en les inscrivant dans le fichier CSV, et, pour chaque commentaire vérifier si il y'a des réponses, si oui, on les rajoute dans le fichier, sinon on passe au commentaire suivant.

## Annexe 4 : Récupération de commentaires par thèmes

La fonction ci-dessous retourne un tableau contenant l'id de toutes les publications associées au thème choisis.

```
static function select_publication_par_theme($id_theme){  
  
    $link = open_database_connection();  
    $listPublication = array();  
  
    $query = 'SELECT id_publication FROM publication WHERE id_theme = "' . $id_theme . '"';  
    $result = mysqli_query($link, $query);  
  
    while ($resultat = mysqli_fetch_assoc($result)) {  
        $listPublication[] = $resultat['id_publication'];  
    }  
    close_database_connection($link);  
    return $listPublication;  
}
```

On associe ensuite à chaque publication le groupe qui lui correspond et on lance la recherche de commentaire via les fonctions présentées ci-dessus.

```
function action_recuperer_par_theme() {  
  
    $commentaire = new Commentaires();  
    $id_theme = Themes::select_id_theme($_POST['theme']);  
    $publication = Themes::select_publication_par_theme($id_theme);  
  
    foreach ($publication AS $publi) {  
        $id_groupe = Publication::recup_id_group($publi);  
        $commentaire->setIdPage($id_groupe);  
        $commentaire->setIdPublication($publi);  
        $commentaire->recuperer_commentaires();  
    }  
}
```



## Annexe 5 : Tweeter

### Extrait de code de récupération des tweets

```
#!/usr/bin/perl
$url = "https://api.twitter.com/1.1/statuses/user_timeline.json";
$requestMethod = "GET";
/*on met le nom du compte dont on veut les tweets */
$getfield = '?screen_name=@winniemandela&count=1000';
$twitter = new TwitterAPIExchange($settings);
$string = json_decode($twitter->setGetfield($getfield)
->buildOauth($url, $requestMethod)
->performRequest(),$assoc = TRUE);

/* on récupère les données des 20 derniers tweets des utilisateurs désignés $getfield */
foreach($string as $items)
{
    echo "Identifiant du tweet: ".$items['id_str']."<br />";
    echo "Date et heure du tweet: ".$items['created_at']."<br />";
    echo "Contenu du tweet: ". $items['text']."<br />";
    echo "Retweeté: ".$items['retweet_count']."<br />";
}
```

### Extrait de l'affichage web des tweets

```
Identifiant du tweet: 1004300208321200128
Date et heure du tweet: Wed Jun 06 09:53:23 +0000 2018
Contenu du tweet: https://t.co/8SGnH2jdMg
Retweeté: 40
Identifiant du tweet: 984728102298423296
Date et heure du tweet: Fri Apr 13 09:40:49 +0000 2018
Contenu du tweet: " The family invited members of the community to form the guard of honour along the route this afternoon" https://t.co/yEbtnTT5eU
Retweeté: 59
Identifiant du tweet: 984403651761442816
Date et heure du tweet: Thu Apr 12 12:11:34 +0000 2018
Contenu du tweet: https://t.co/9bliRgDb4C
Retweeté: 57
Identifiant du tweet: 981045759801020418
Date et heure du tweet: Tue Apr 03 05:48:30 +0000 2018
Contenu du tweet: It is with profound sadness that we inform the public that Mrs Winnie Madikizela-Mandela passed away at the Netcare... https://t.co/tBhB6EeBQ
Retweeté: 465
Identifiant du tweet: 956011873635373056
Date et heure du tweet: Wed Jan 24 03:52:47 +0000 2018
Contenu du tweet: https://t.co/Lj6VDZLKLv
Retweeté: 86
Identifiant du tweet: 953024777563901952
Date et heure du tweet: Mon Jan 15 22:03:07 +0000 2018
Contenu du tweet: RT @yaseentheba: ANC top 6 at the home of Mama @winniemandela in Soweto this evening! https://t.co/ZXLDkTRSC5
Retweeté: 66
Identifiant du tweet: 832629537980624896
Date et heure du tweet: Fri Feb 17 16:35:26 +0000 2017
Contenu du tweet: RT @HorbachBonnie: Marlene Le Roux is transforming @Artscape | Honoured to know this multi-talented #changemakers | @winniemandela @
Retweeté: 23
Identifiant du tweet: 819140821274468352
Date et heure du tweet: Wed Jan 11 11:16:05 +0000 2017
Contenu du tweet: RT @ZindziMandela: https://t.co/dOI8Fe0kIA @winniemandela @mandelalegacy Ever so proud of you Zami Girl!!! @ProudlySA https://t.co/dlfAr
Retweeté: 90
```



## Extrait du fichier CSV généré contenant les tweets récupérés

|    | recupinfos.php | winnie.csv                                                                                                                                                                                           | obama.csv | TwitterAPIExchange.php |
|----|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------|
| 1  |                | "Wed Jun 06 09:53:23 +0000 2018",1004300208321200128,https://t.co/8SGnH2jdMg                                                                                                                         |           |                        |
| 2  |                | "Fri Apr 13 09:40:49 +0000 2018",984728102298423296,"" The family invited members of the community to form the guard of honour along the route this afternoon" https://t.co/yEbnTT5eU"               |           |                        |
| 3  |                | "Thu Apr 12 12:11:34 +0000 2018",984403651761442816,https://t.co/9bIiRgDb4C                                                                                                                          |           |                        |
| 4  |                | "Tue Apr 03 05:48:30 +0000 2018",981045759801020418,"It is with profound sadness that we inform the public that Mrs Winnie Madikizela-Mandela passed away at the Netcare... https://t.co/tBhB6EeBQ6" |           |                        |
| 5  |                | "Wed Jan 24 03:52:47 +0000 2018",956011873635373056,https://t.co/Lj6VDZLKLv                                                                                                                          |           |                        |
| 6  |                | "Mon Jan 15 22:03:07 +0000 2018",953024777563901952,"RT @yaseentheba: ANC top 6 at the home of Mama @winniemandela in Soweto this evening! https://t.co/ZXLDkTRSC5"                                  |           |                        |
| 7  |                | "Fri Feb 17 16:35:26 +0000 2017",832629537980624896,"RT @HorbachBonnie: Marlene Le Roux is transforming @Artscape   Honoured to know this multi-talented #changemakers   @winniemandela @bongan..."  |           |                        |
| 8  |                | "Wed Jan 11 11:16:05 +0000 2017",819140821274468352,"RT @ZindziMandela: https://t.co/d0l8Fe0kIA @winniemandela @mandalalegacy Ever so proud of you Zami Girl!!! @ProudlySA https://t.co/dIfArJZI..." |           |                        |
| 9  |                | "Wed Oct 19 07:57:25 +0000 2016",788650245156663296,"RT @ZindziMandela: #ProudToServe at Heads of Mission Conference @DIRCO_ZA @mandalalegacy @ProudlySA @winniemandela https://t.co/ms49t56jqH"     |           |                        |
| 10 |                | "Fri Sep 30 20:10:42 +0000 2016",781949412926947328,"RT @mandalalegacy: #OYWottawa @OneYoungWorld YoungPeople have earned their space at the table of influential GlobalLeaders that Drive Cha..."   |           |                        |
| 11 |                | "Fri Sep 30 20:10:32 +0000 2016",781949370459709445,"RT @mandalalegacy: @HeraMission #OYWottawa ""The time has come for Humanity to recognise the power of a unified YouthVoice. We are that vo..."  |           |                        |
| 12 |                | "Fri Sep 30 17:55:43 +0000 2016",781915440931074048,"RT @mandalalegacy: #MandelaLegacy @lindozici @ZondwaMandela Join #OYWottawa #OYW2016 9pm tonight A Call to Prioritise the Youth Voice https..." |           |                        |
| 13 |                | "Mon Sep 26 06:27:38 +0000 2016",780292730941562880,"RT @PresidencyZA: Message from President Zuma: Happy birthday Mama Winnie Madikizela-Mandela as you turn 80 years old today https://t.co/Jb..." |           |                        |
| 14 |                | "Mon Sep 26 05:24:34 +0000 2016",780276858562703360,"RT @DailyNewsSA: Ahmed Kathrada: #WinnieMandela a symbol of enduring courage #Winnie80th https://t.co/6h5vHJZ3rz https://t.co/y0Qrm3QfQq"       |           |                        |
| 15 |                | "Mon Sep 26 05:24:29 +0000 2016",780276837662486528,"RT @MTVAfrica: #Happy80thBirthday @winniemandela https://t.co/Mp7ykPJ1lB"                                                                       |           |                        |
| 16 |                | "Mon Sep 26 05:24:07 +0000 2016",780276743403892736,"RT @ThuliMadonsela3: #Happy80thBirthday Mam@winniemandela. Thank you for a remarkable life that has made a huge difference. May you enjoy..."   |           |                        |
| 17 |                | "Mon Sep 26 05:20:22 +0000 2016",780275802441129984,"RT @ZindziMandela: Happy Birthday Ma. Your courage, commitment, beauty awe-inspiring. #LoveYouSenseless @winniemandela @mandalalegacy https..." |           |                        |

## Annexe 6 : CORTEXT

