**EATAPP**

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| **DATABASE CONSTRUCTION 2.0** | |
| [OPEN MYPHP ADMIN](http://localhost:8888/phpMyAdmin) | |
| **Table** | **Query** |
| CHAIN\_OWNER | ***CREATE******TABLE*****CHAIN\_OWNER** *(*  *ID* ***int******NOT******NULL******PRIMARY******KEY******AUTO\_INCREMENT****,*  *Email* ***varchar****(100)* ***NOT NULL******unique****,*  *Password* ***varchar****(100)* ***NOT******NULL****,*  Link **varchar(30) NOT NULL unique,**  Restaurant\_Name **varchar(25) NOT NULL,**  *Website* ***varchar(****100****),***  *Picture* ***varchar(****200****)****,*  *Token* ***varchar****(100)* ***NOT NULL,***  *Validated* ***int(1) DEFAULT 0,***  *Validated\_By* ***int(10),***  *Dat\_Reg* ***TIMESTAMP DEFAULT CURRENT\_TIMESTAMP****,*  *Hash* ***varchar(****32****) NOT NULL,***  *Active* ***int(****1****) NOT NULL DEFAULT 0,***  ***FOREIGN KEY*** *(Validated\_By)* ***REFERENCES*****ADMIN\_PANEL***(ID)*  *);* |
| RESTAURANTS | ***CREATE******TABLE*****RESTAURANTS** *(*  *ID* ***int******NOT******NULL******AUTO\_INCREMENT****,*  *OWNER\_ID* ***int(11) NOT NULL****,*  *R\_Order* ***int****(11)* ***NOT NULL,***  *Menu\_Name* ***varchar****(30),*  *Date\_Added* ***TIMESTAMP DEFAULT CURRENT\_TIMESTAMP****,*  *Schedule\_ID* ***int(11),***  Link **varchar(30) NOT NULL unique,**  *Country* ***varchar(****200****)****,*  *State\_Province* ***varchar(****200****)****,*  *City* ***varchar(****200****)****,*  *Postal\_Code* ***varchar****(25)****,***  *Address* ***varchar(****100****),***  *Longitude double,*  *Latitude double,*  *Phone\_Number* ***varchar(****25****),***  *Picture* ***varchar(****200****)****,*  ***PRIMARY******KEY*** *(OWNER\_ID****,****R\_Order)****,***  ***KEY*** *ID (ID),*  ***FOREIGN KEY*** *(OWNER\_ID)* ***REFERENCES*****CHAIN\_OWNER***(ID),*  ***FOREIGN KEY*** *(Schedule\_ID)* ***REFERENCES*****SCHEDULE***(ID)*  *);* |
| SCHEDULE | ***CREATE******TABLE*****SCHEDULE** *(*  *ID* ***int******NOT******NULL******PRIMARY******KEY******AUTO\_INCREMENT****,*  *OWNER\_ID* ***int(11) NOT NULL****,*  *Schedule\_Monday* ***varchar(****20****),***  *Schedule\_Tuesday* ***varchar(****20****),***  *Schedule\_Wednesday* ***varchar(****20****),***  *Schedule\_Thursday* ***varchar(****20****),***  *Schedule\_Friday* ***varchar(****20****),***  *Schedule\_Saturday* ***varchar(****20****),***  *Schedule\_Sunday* ***varchar(****20****),***  ***FOREIGN KEY*** *(OWNER\_ID)* ***REFERENCES*****CHAIN\_OWNER***(ID)*  ***);*** |
| MENUS | ***CREATE******TABLE*****MENUS** *(*  *ID* ***int******NOT******NULL******PRIMARY******KEY******AUTO\_INCREMENT****,*  *OWNER\_ID* ***int(11) NOT NULL****,*  Name **varchar(**30**) NOT NULL,**  *Product\_Name* ***varchar(****200****)******NOT******NULL****,*  *Price* ***double NOT NULL,***  *Description* ***varchar(****200****)****,*  *Picture* ***varchar(****200****)****,*  *Contents* ***varchar(****200****)****,*  *Section* ***varchar(****200****)****,*  *Currency* ***varchar****(15),*  *Last\_Modified* ***TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,***  ***FOREIGN KEY*** *(OWNER\_ID)* ***REFERENCES*****CHAIN\_OWNER***(ID)*  *);* |
| ADMIN\_PANEL | ***CREATE******TABLE*****ADMIN\_PANEL** *(*  *ID* ***int******NOT******NULL******PRIMARY******KEY******AUTO\_INCREMENT****,*  Username **varchar(30) NOT NULL,**  *Password* ***varchar****(100) N****OT******NULL****,*  *Restriction* ***int****(3),*  *Token* ***varchar****(100)* ***NOT NULL***  *);* |
| SEARCHES | ***CREATE******TABLE*****SEARCHES** *(*  *ID* ***int******NOT******NULL******PRIMARY******KEY******AUTO\_INCREMENT****,*  IP\_Address **varchar(30) NOT NULL,**  *Input* ***varchar****(124),*  *Chain\_id* ***int(11)****,*  *Results\_Found* ***int(50),***  *Date\_search* ***TIMESTAMP DEFAULT CURRENT\_TIMESTAMP****,*  ***FOREIGN KEY*** *(Chain\_id)* ***REFERENCES*****CHAIN\_OWNER***(ID)*  *);* |
| **~USER INFO~** | |
| USERS  (\*to be tested\*) | **CREATE** **TABLE** USERS (  ID **int** **NOT** **NULL** **PRIMARY** **KEY** **AUTO**\_**INCREMENT**,  Email **varchar**(100) **NOT** **NULL** **unique**,  Password **varchar**(100) **NOT** **NULL**,    Username **varchar**(30) **NOT** **NULL** **unique**,  First\_Name **varchar**(50) **NOT** **NULL**,  Last\_Name **varchar**(50) **NOT** **NULL**,  Gender **varchar**(10),  Age **int**(3),  Picture **varchar**(200),  Registred\_date **TIMESTAMP** **DEFAULT** **CURRENT\_TIMESTAMP**  ); |
| REVIEWS | **CREATE** **TABLE** REVIEWS (  REVIEWS\_ID **int** **NOT** **NULL** **PRIMARY** **KEY** **AUTO**\_**INCREMENT**,  RESTAURANT\_ID **int**(11) NOT NULL,  UID **int**(11) **NOT** **NULL**,  Review **varchar**(300) **NOT** **NULL**,  Date **TIMESTAMP** **DEFAULT** **CURRENT**\_**TIMESTAMP**,  **FOREIGN** **KEY** (RESTAURANT\_ID) **REFERENCES** RESTAURANT (ID),  **FOREIGN** **KEY** (UID) **REFERENCES** USERS (ID)  ); |
| RATES | **CREATE** **TABLE** RATES (  REVIEWS\_ID **int** **NOT** **NULL** **PRIMARY** **KEY** **AUTO**\_INCREMENT,  RESTAURANT\_ID **int**(11) NOT NULL,  UID **int**(11) **NOT** **NULL**,  Rate **int**(3),  Date **TIMESTAMP** **DEFAULT** **CURRENT**\_TIMESTAMP,  **FOREIGN** **KEY** (RESTAURANT\_ID) **REFERENCES** RESTAURANTS (ID),  **FOREIGN** **KEY** (UID) **REFERENCES** USERS (ID)  ); |
| FAVORITES  /\*list of favorite restaurants\*/ | **CREATE** **TABLE** FAVORITES(  RESTAURANT \_ID **int**(11) **NOT** **NULL**,  UID **int**(11) **NOT** **NULL**,  Date **TIMESTAMP** **DEFAULT** **CURRENT\_TIMESTAMP**,  **PRIMARY** **KEY** (RESTAURANT \_ID,UID),  **FOREIGN** **KEY** (RESTAURANT \_ID) **REFERENCES** RESTAURANTS (ID),  **FOREIGN** **KEY** (UID) **REFERENCES** USERS(ID)  ); |
| DISTANCE QUERY | **DROP** **FUNCTION** **IF** **EXISTS** eatappth\_DB\_EATAPP.getDistance;  **DELIMITER** //  **create** **function** eatappth\_DB\_EATAPP.getDistance(lat1 **double** ,long1 **double** , lat2 **double** , long2 **double**)  **returns double**  **begin**  **declare** DegToRad **double**;  **declare** Ans **double**;  **declare** Miles **double**;  **SET** DegToRad = 57.29577951;  **SET** Ans = 0;  **SET** Miles = 0;  **if** (lat1 **is** **null** **or** lat1 = 0 **or** long1 **is** **null** **or** long1 = 0 **or** lat2 **is**  **null** **or** lat2 = 0 **or** long2 **is** **null** **or** long2 = 0)  **then**  **return** Miles;  **end** **if**;  **SET** Ans = **SIN**(lat1 / **DegToRad**) \* **SIN(**lat2/**DegToRad**) + **COS**(lat1 / **DegToRad**) \* **COS**( lat2 / **DegToRad** ) \* **COS**(**ABS**(long1 - long2 )/**DegToRad**);  **SET** Ans=(**ACOS**(**Ans**))\***DegToRad**;  **SET** Ans=1.609344\*60\*1.1515\***Ans**;  **return** **Ans;**  **End**//  **DELIMITER**; |
| DISTANCE QUERY  USE EXAMPLE | **SELECT** FA\_RESTORANTS.Latitude,FA\_RESTORANTS.Longitude, eatappth\_DB\_EATAPP.getDistance(FA\_RESTORANTS.Latitude,  FA\_RESTORANTS.Longitude,45.2805885,-75.7338908) **FROM** FA\_**RESTORANTS**; |

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| **LINKS** | |
| [.htaccess file](http://corz.org/server/tricks/htaccess.php) | .htaccess |
| [Google maps](https://developers.google.com/maps/tutorials/fundamentals/adding-a-google-map) |  |
| [Geolocation](https://developers.google.com/maps/documentation/javascript/examples/map-geolocation) |  |
| [Emojis png](http://lechuck80.deviantart.com/art/Whatsapp-Emoji-Collection-357910493) |  |
| [Jquery Plugin Writing](http://learn.jquery.com/plugins/basic-plugin-creation/) | JQuery |
| [JQuery Dragging](http://jsfiddle.net/tovic/mkUJf/) | JQuery |
| [Javascript check URL format](http://stackoverflow.com/questions/5717093/check-if-a-javascript-string-is-an-url) | JavaScript |
| [Javascript programming style](https://www.christianheilmann.com/2007/11/27/javascript-shortcut-notations-that-shouldnt-be-black-magic-to-the-average-developer/) | JavaScript |
| [PHP Crop image](http://www.codeforest.net/upload-crop-and-resize-images-with-php) | PHP |
| [Longitude & latitude](http://stackoverflow.com/questions/3807963/how-to-get-longitude-and-latitude-of-any-address) | PHP |
| [MySQL Inner Join](http://www.sitepoint.com/understanding-sql-joins-mysql-database/) | MySQL |
| [MySQL zipCode distance](http://iamtgc.com/implementing-zip-code-proximity-functions-in-ms-sql-server/) | MySQL |
| [Asynchronus image loading XCode](http://stackoverflow.com/questions/16663618/async-image-loading-from-url-inside-a-uitableview-cell-image-changes-to-wrong) | Objective-C |
| [IOS 6.0 MapKit](http://www.raywenderlich.com/21365/introduction-to-mapkit-in-ios-6-tutorial) | Objective-C |
| [Eliminate Extra Separator](http://stackoverflow.com/questions/1369831/eliminate-extra-separators-below-uitableview-in-iphone-sdk) | Objective-C |
| [Customize tab bar](http://www.appcoda.com/ios-programming-how-to-customize-tab-bar-background-appearance/) | Objective-C |
| [Distance formula](https://www.geodatasource.com/developers/mssql) | MySQL, PHP, JavaScript, C, C#, VB, SQL |

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| Commonly used functions | | |
| Command | JavaScript | PHP |
| Replace a string | **var** str=”Hello world”;  str=str.**replace**(“Hello”,”Bye”); | $str=”Hello world”;  $str= **str\_replace**(“Hello”,”Bye”,$str); |
| Split string into array | **var** str=”How are you doing?”;  **var** words=str.**split**(“ ”); | $str=”How are you doing?”;  $words=**explode**(“ ”, $str); |
| Convert string into integer | **var** str=”10”;  **var** num=**parseInt**(srt); |  |
| Jquery | | |
| Click outside of tag with id=item | | |
| $(document).mouseup(function(e)  {  var container=$("#item");  //if the target of the click isn't the container...  // ... nor a descendant of the container  if(!container.is(e.target) && container.has(e.target).length === 0)  {  container.hide();  }  }); | | |
| Jquery Online (\*not optimized for local server\*) | | |
| <script src='http://ajax.aspnetcdn.com/ajax/jQuery/jquery-1.11.3.min.js'></script> | | |
| PHP | | |
| Get Address Long/Lat | | |
| function getCoordinates($address)  {  $prepAddr=**str\_replace**(' ','+',$address);  $geocode=**file\_get\_contents**('http://maps.google.com/maps/api/geocode/json?address='.$prepAddr.'&sensor=false');  $output= **json\_decode**($geocode);  $coordinates=**array**();  $coordinates[]= $output->results[0]->geometry->location->lng;  $coordinates[]= $output->results[0]->geometry->location->lat;  **return** $coordinates;  } | | |

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| **To Do** |
| **Sign Up** |
| ✓ Check email format & password  ✓ Send email & verify it  - Forgot password |
| **Table for menus** |
| ~~- add copy~~  ✓ move row  ✓ add sections  ✓ load menu  ✓ sections  ✓ switch (up/down)  ✓ images  ✓ delete row  ✓ crop images  ✓ check image size & type  - load using AJAX |
| **Restaurant profile** |
| ✓ Picture  ✓ Menu  - Reviews  ✓ Other info (opening/closing time) |
| **Restaurant panel** |
| - settings  - change password  ✓ resend email verification  ✓ edit menu |
| **Admin/moderator panel** |
| - Settings  ✓ Validate/Restrict/Delete restaurant account  - Delete/Hide reviews  - Ban users |
| **Search engine** |
| ✓ Search restaurant name  ✓ Search food by price  - Search by opening time  ✓ Search by distance  - Search by rate  ✓ Add filters  - Group several restaurant options (several items from one restaurant/food-chain into a bar)  - Add path indicator towards the restaurant |
| **App** |
| - Sign up through Facebook or Email  - User login  - Ability to rate/review  - Save favourite places  - Add notifications  - Directions to restaurant  - Search by emojis  - Settings (change main colour, change password, set notifications) |
| **Other** |
| ✓ Link to social pages (Facebook, Instagram, Twitter)  ✓ Fix design  ✓ Short link (index.php?user=username → /username)  - Optimize all links (login/index.php → login/)  - Add languages (French, Russian, Spanish, Korean, Vietnamese, Mandarin)  - System counting number of visitors  - Write *agreement policy* |
| **Additional Ideas** |
| - QR-code (scan code and instantly get restaurant menu)  ✓ limit length of input  - add advanced info column  - restaurants on a path (between 2 locations)  ✓ smileys icons as food content  *-* support page  - students special  ~$$$~  - restaurant targeted advertisement  - ads on the website |
| **Fix/Bugs** |
| - Email sending  ✓ Lowercase username  - Several attempts (Captcha)  - Check for MySql injection  - Check for XSS atack  - Check user input in php (server side) |
| **Statistics** |
| - 883 391 ppl in **Ottawa**  - 42 587 ppl in **UOttawa** (4.82%)  - 29 289 ppl at **Carleton** (3.32%)  - 61 849 ppl at **Algonquin** (7.00%)  - 2 272 restaurants in Ottawa ([tripadvisor.ca](http://tripadvisor.ca))  - 2 615 000 ppl in **Toronto**  - 84 556 ppl in **UofT** (3.23%)  - 1 650 000 ppl in **Montreal**  - 39 988 ppl in **McGill** (2.42%)  - 603 500 ppl in **Vancouver** |
| **Other** |
| *requests/resend\_email.php*  *login/index.php?resend=true*  *admin\_3439*  *walter*  [*http://localhost:8888/user/setup/index.php*](http://localhost:8888/user/setup/index.php)  ***Host****: bsight.ca*  ***Username****: bsightcax1*  ***Password****: Boundlesssight7*  Logo: #ffa25e  Blue: #4d85f2  Proxima Nova Light  Helvetica Neue  Quicksand |