

BootCamp Tutorial 1

1) For SQL programming, we need to install SQL server. Download **MAMP** for Windows/Mac from the following link as

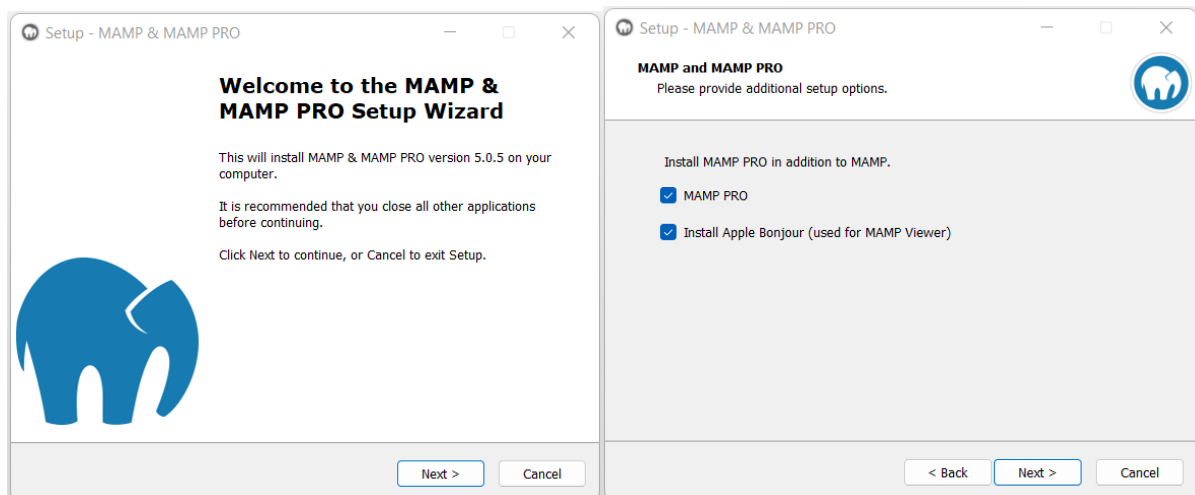
<https://www.mamp.info/en/mamp/windows/>



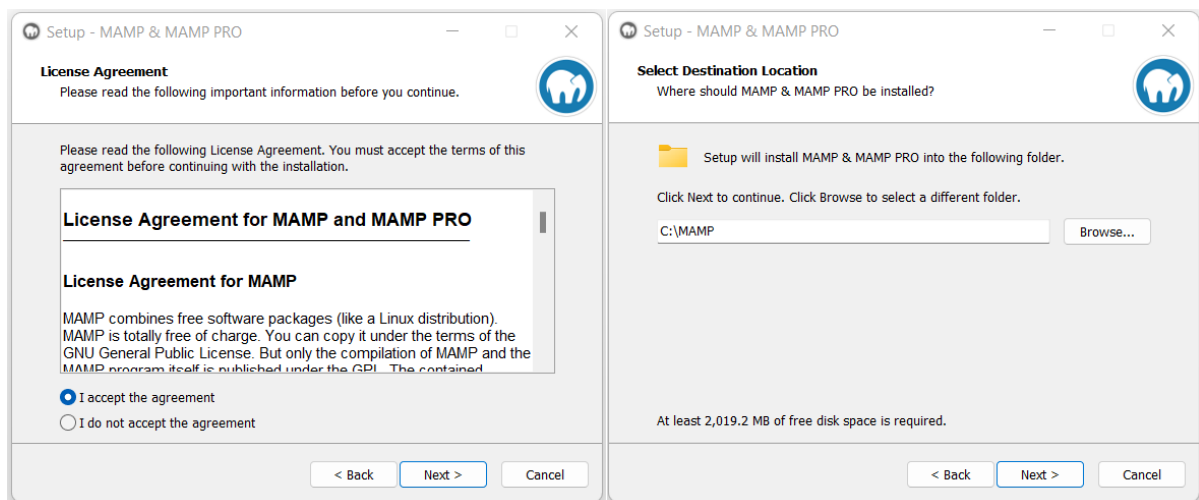
2) When the MAMP download will be completed, MAMP_MAMP_PRO_5.0.5.exe file is present in your download folder.

3) Execute this downloaded file by double clicking on this file in Windows operating system.

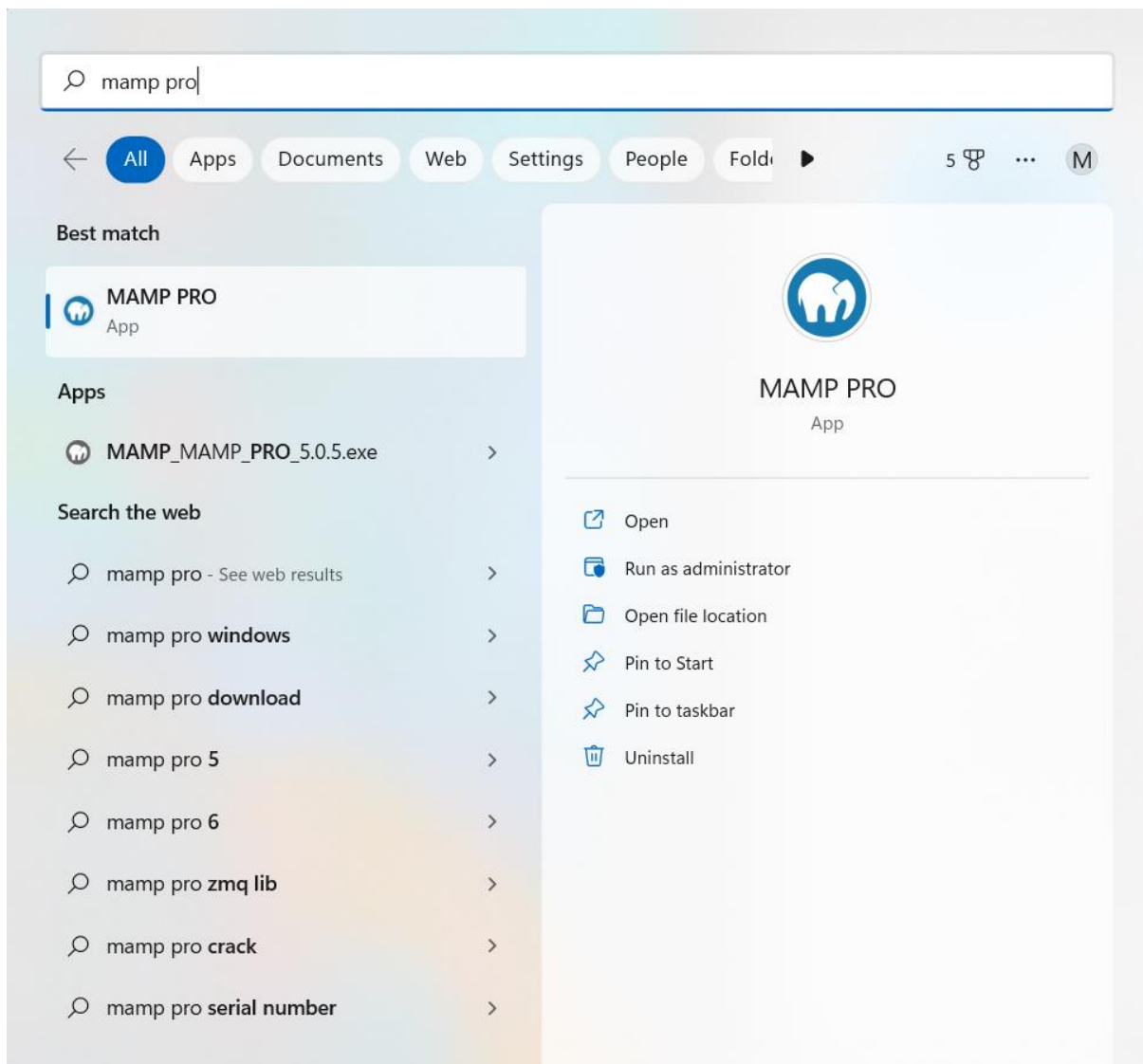
4) When asked/ prompted for installation, click on “**Yes**” button, and follow the steps asked by the MAMP application



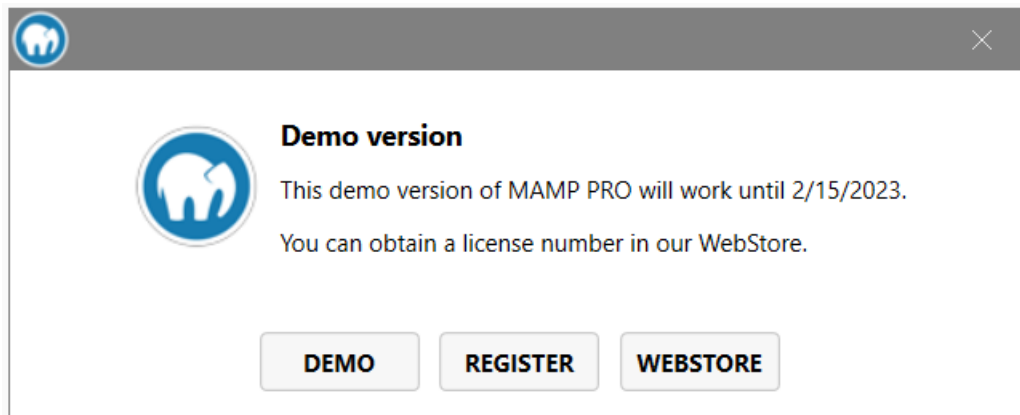
5)



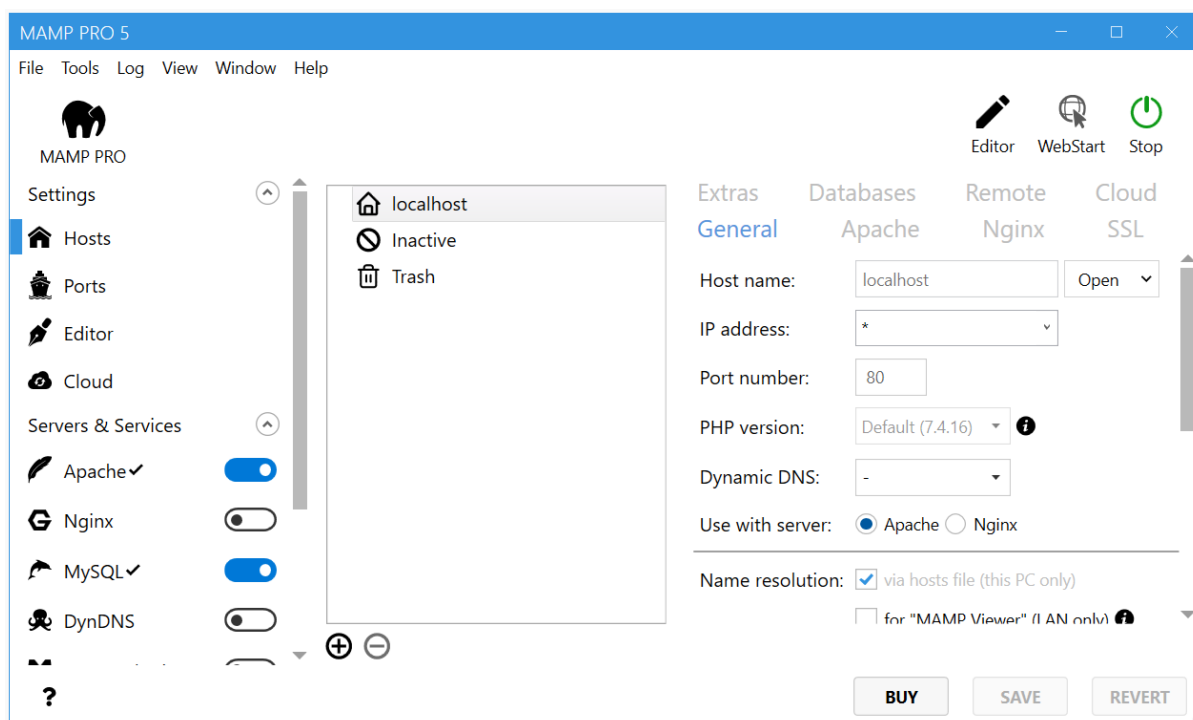
6) Click on the default instructions for the next steps and install MAMP & MAMP PRO. After completion of installation of MAMP, Find the MAMP PRO on your system as shown below



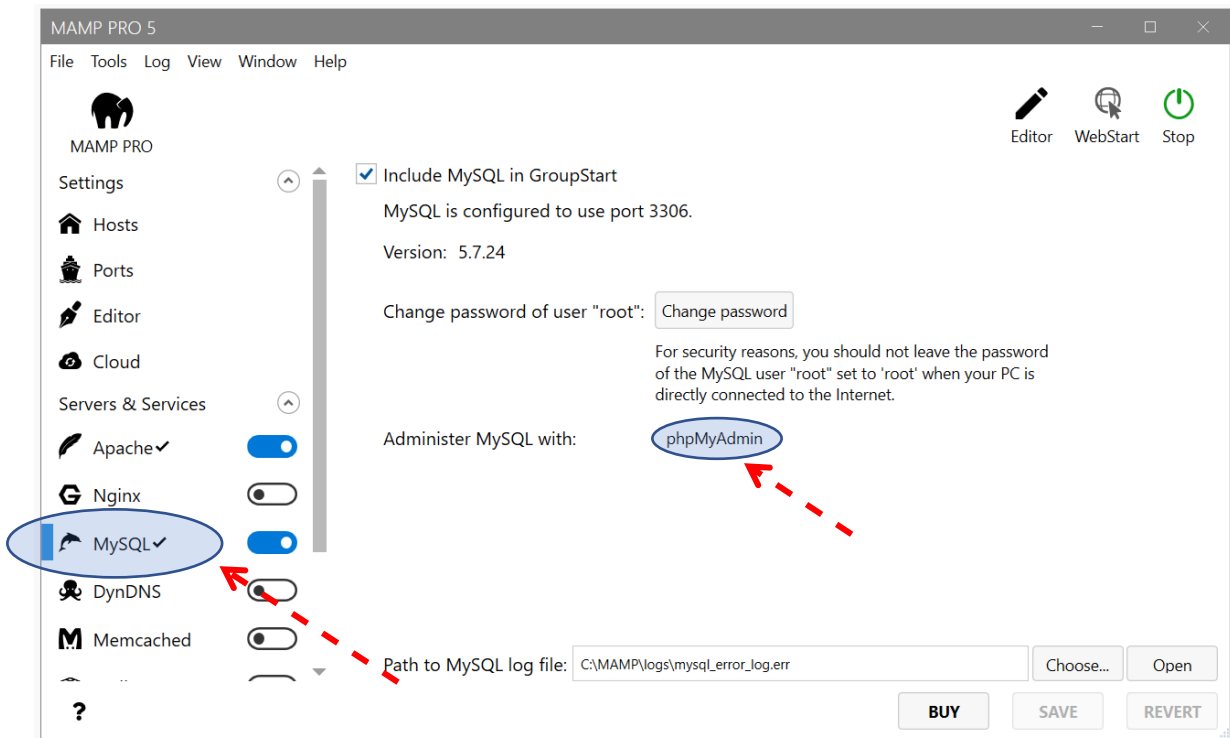
7) Start **MAMP PRO** after installation on your operating system. Click on the **“DEMO”** button.



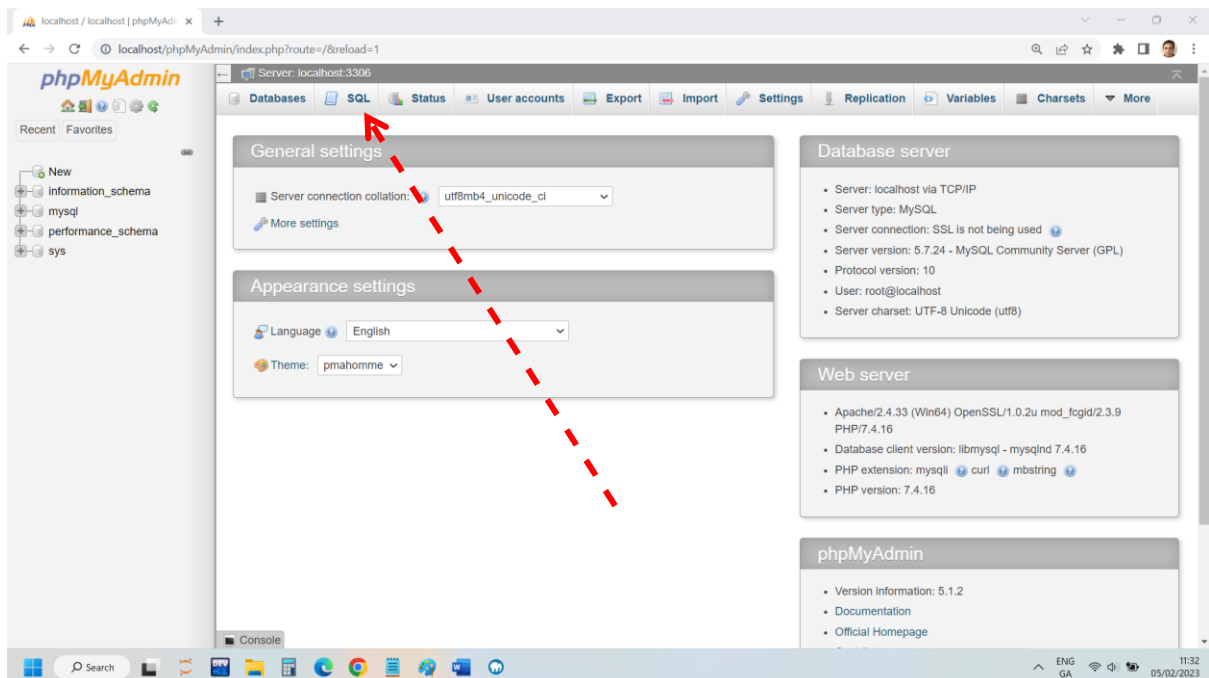
8) Click on **“Allow access”** button to start the MAMP application. The following window will appear as mentioned below.



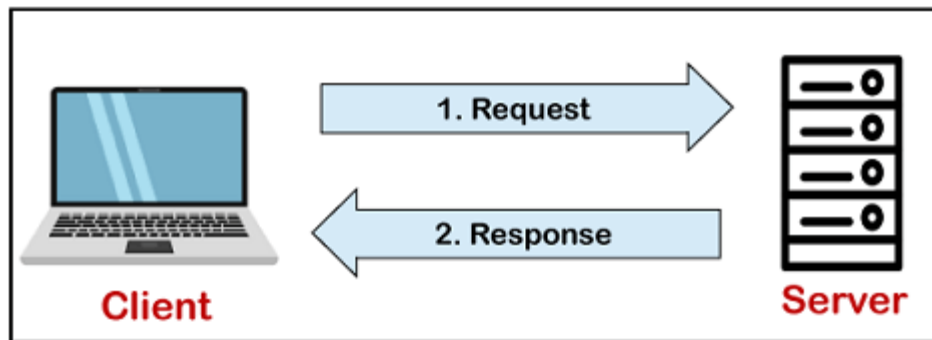
9) Click on the left pane on MySQL as shown below and then click on **phpMyAdmin** as pointed by an arrow.



10) When you click on **phpMyAdmin**, a default browser of your system will be opened as displayed below

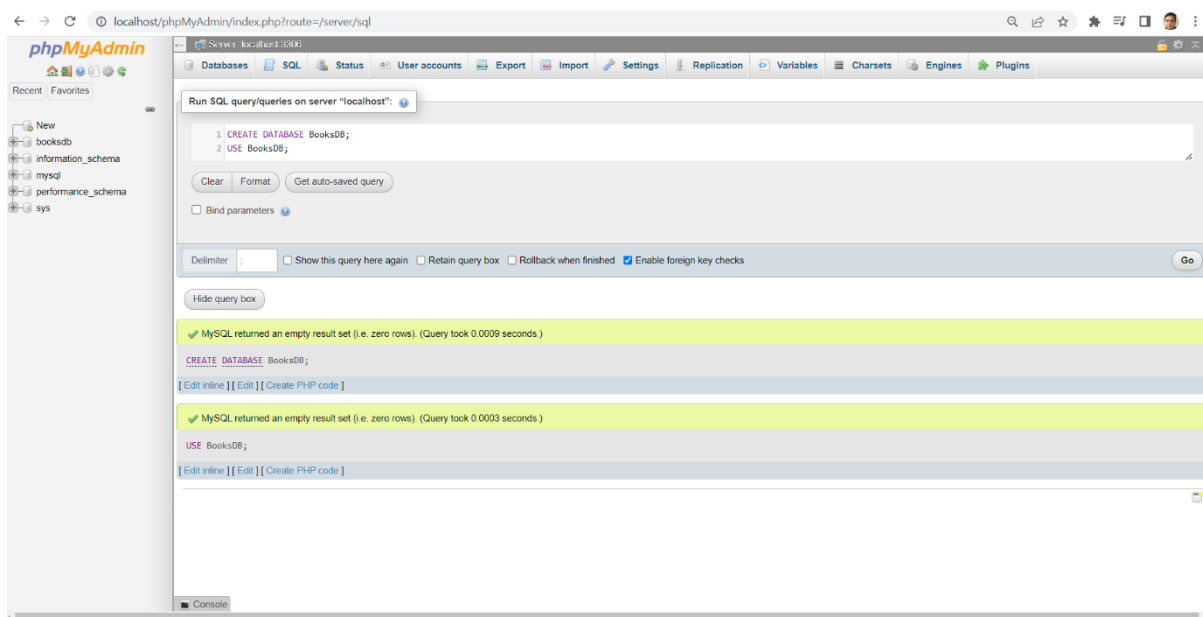


11) We now work on the MySQL using **phpMyAdmin** and MySQL server using **localhost**. You can find default databases already created by phpMyAdmin.



12) We now create the database, tables and insert the records. Click on the SQL tab at the top menu.

13) A **review** belongs to only one **book**. A book has many reviews. Let's create a database named as "**BooksDB**".



14) Now, we create two tables and make a relationship between them. "**books**" Table is created by using the following command as mentioned below.

```

2 Use BooksDB;
3
4 CREATE TABLE books (
5     id integer NOT NULL,
6     title varchar(100) NOT NULL,
7     author varchar(100) NOT NULL,
8     published_date date,
9     isbn char(12),
10    PRIMARY KEY (id),
11    UNIQUE (isbn)
12 );
  
```

15) Create a second Table named as "**reviews**" and linked with Books Table using foreign key.

```
1 Use BooksDB;
2 CREATE TABLE reviews (
3   id integer NOT NULL,
4   book_id integer NOT NULL,
5   reviewer_name varchar(255),
6   content varchar(255),
7   rating integer,
8   published_date date,
9   PRIMARY KEY (id),
10  FOREIGN KEY (book_id) REFERENCES books(id) ON UPDATE CASCADE
11 );
```

16) Insert some records into both tables by using the following commands.

```
1 Use BooksDB;
2
3 INSERT INTO books (id, title, author, published_date, isbn)
4 VALUES (1, 'My First SQL Book', 'Mary Parker', '2012-02-22', '981483029127'),
5         (2, 'My Second SQL Book', 'John Mayer', '1972-07-03', '857300923713'),
6         (3, 'My First SQL Book', 'Cary Flint', '2015-10-18', '523120967812');
7
8
9 INSERT INTO reviews (id, book_id, reviewer_name, content, rating, published_date)
10 VALUES (1, 1, 'John Smith', 'My first review', 4, '2017-12-10'),
11         (2, 2, 'John Smith', 'My second review', 5, '2017-10-13'),
12         (3, 2, 'Alice Walker', 'Another review', 1, '2017-10-22');
```

17) Insert two arbitrary records of your favourite books along with reviews into above mentioned tables.

18) A database named as “**BuyHouse**” is provided on Moodle for practice. Create a database using **phpMyAdmin** as explained in this Bootcamp and then create the tables as provided in the image files. Insert the data into each Table and perform SQL queries on the Tables present in the exercise provided on Moodle.

References:

- <https://www.mamp.info/en/windows/>
- <https://www.javatpoint.com/mysql-tutorial>
- https://launchschool.com/books/sql/read/table_relationships
- https://www.tutorialspoint.com/mysql/mysql_date_time_functions_current_timestamp.htm