COURIER INFORMATION SYSTEM

Submitted by

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Prepared For

DATABASE MANAGEMENT SYSTEMS

(CSE2004)

PROJECT COMPONENT

Submitted To

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(Deemed to be University under section 3 of UGC Act, 1956)

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ABSTRACT

This project deals with the ‘Courier Information System’. The system is used for daily activities such as booking a courier, maintain employee details, process payroll of employees, maintain hub details, maintain company details etc.

This project deals with the ‘Courier management’. The system is used for daily activities such as booking, non-delivery, out return, company details, hub rates, and pickup centers. It is very difficult to do this process manually. Hence it is recommended to computerize the process by developing the relative software as the world is turning into information and technology; computerization becomes necessity in all walks of life.

INTRODUCTION

In modern age, as time progresses, needs & requirements of the people are also increasing. They want more facility & try to do their task quickly & within time. But they cannot get all the things at nearest market or area, so they have to import the things from any place in the world.

Within the country, the things can be imported through post service. But it consumes the time & sometimes problem of damage or missing occur. Where as in the international market, the one way is shipping. But it also requires more time.

The courier service is one of the solutions of these problems. It is used to send some things to any person in the world within time.

The courier company has number of branches, which are spread over the country or the world. So that when person wants to send things then he has to contact at nearest courier service branch. The courier company creates the schedule &

gives internal/external services. The courier service work as destination office or source office. The source office branch receives the order means consignments & sends it to the destination courier branch. The company has certain rules according to the weight.

Project Resource Requirements

Software Requirements

- Windows 7,8,9,10 and the newer versions
- An effective antivirus
- JavaScript
- SQL server

Hardware requirements

- At least 40 gigabytes of memory
- At least 500 megabytes of RAM
- Processor speed of at least 700 megahertz, etc.

Literature Survey

In this section, literature survey regarding the performance prediction model of the students based on different criteria are discussed. Accordingly, research papers [1-8] are reviewed and analysed based on the prediction methods used.

Authors	Method	Purpose	Advantages	Disadvantages
C.DTarantilisC.TKiranoudis [1]	backtracking adaptive threshold accepting	Participation in online Discussion Forums	paying much attention to the spatial dimension of data to be analyzed	Limited attribute based selection, tedious and time consuming
Paul Darbyshire[2]	Web network	Participation in variour Research Based Programs	reduces the need for specialized integration and development	accuracy improvement

Brain W Williams [3]	dBase III Plus software	Predicting the efficiency of the record management	improves the efficiency of the department by automating the recording and updating process for borrowing records	performance degradation
Dr. K. P. Rane. [4]	through GSM enabled devices and GPS used to locate the current location of the vehicle	For better transportation system	flexibility and responsiveness	Conclusions are wide ranging
Danyu, Z. And G.A.O. Hongfeng [5]	GPRS and GSM	Scientific Research	performance reliability and reusability of communication server	Performance degraded by increased number of communication servers
Okemiri Henry A. [6]	No specific method used	To improve the existing System	enhancing customer deliveries by features such as speed, security,	Not so efficient

			tracking etc. from specific towns or cities, to regional and national services	

Chauhan et al., [7]	web application	To provide the Customers to Access Managing Details	efficient	Performance degrades.
Fabiano [8]	No specific method used	To provide access to the Delivery status Of a consignment which should be provided by courier and cargo Companies for their Clients through a toll free hotline, SMS and Company Website	Efficient enough to provide the necessary details to the customers	Huge network required

TABLES AND CONSTRAINTS

Employee_info :

Fields	Data Type	Size	Attributes
Emp_ID	Varchar2	5	Primary Key
Emp_name	Varchar2	15	Not NULL
Emp_mobile	Varchar2	10	Not NULL

Consignment_details :

Fields	Data Type	Size	Attributes
Emp_ID	Varchar2	5	Foreign Key
Consign_ID	Varchar2	10	Unique key
Consign_name	Varchar2	20	Not NULL

Rate _and_type:

Fields	Data Type	Size	Attributes
Type_name	varchar2	10	Not NULL
Type_rate	number	6	Not NULL
Distance	number	8	Not Null
Weight	number	3	NOT NULL

Delivery_details:

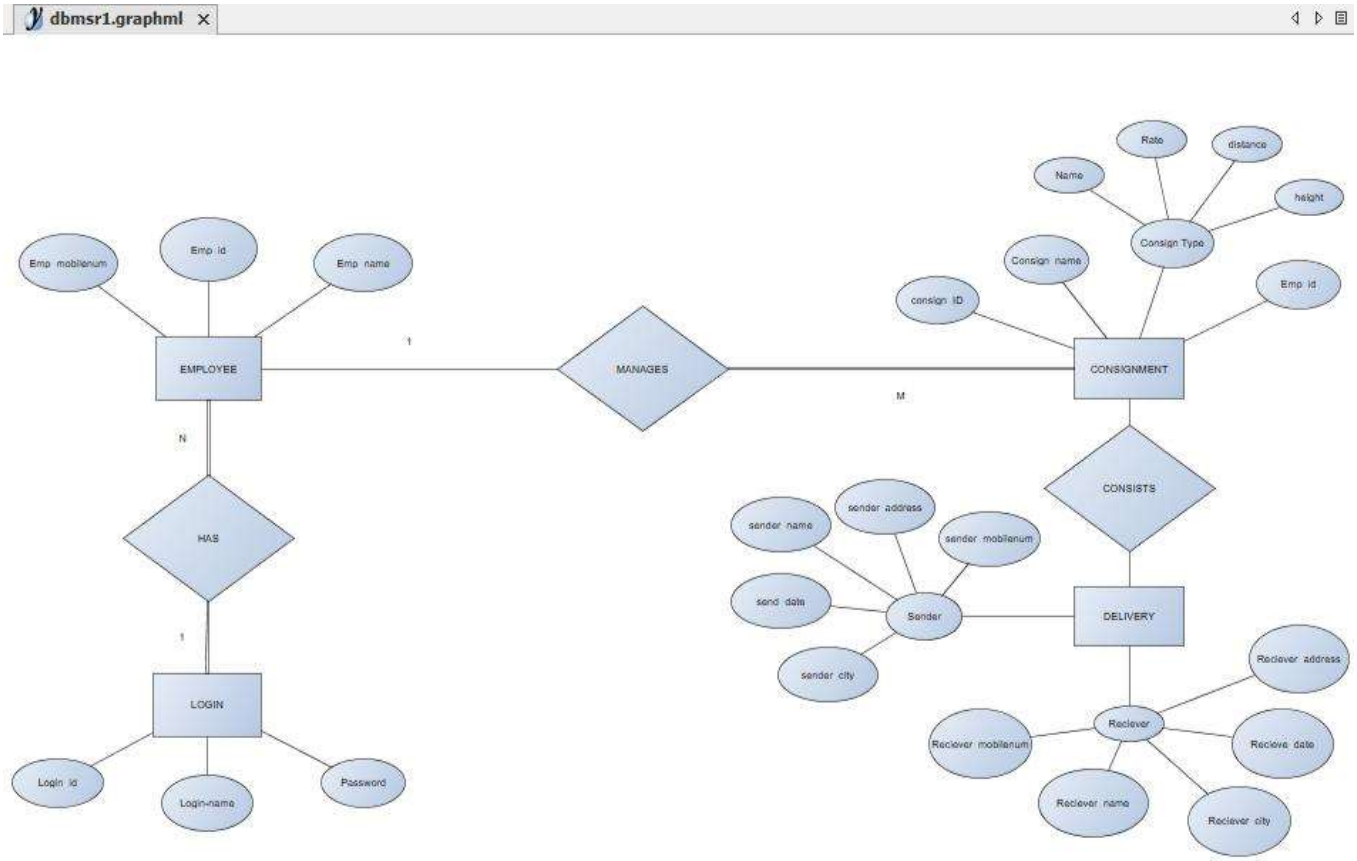
Fields	Data Type	Size	Attributes
Sender_name	Varchar2	20	Not null
Sender_address	Varchar2	200	Not null
Sender_mobile	Varchar2	10	Not null
S_city	Varchar2	15	Not null
S_date	date	-	Not null

Fields	Data Type	Size	Attributes
Receiver_name	Varchar2	20	Not null
Receiver_address	Varchar2	200	Not null
Receiver_mobile	Varchar2	10	Not null
R_city	Varchar2	15	Not null
R_date	date	-	Not null

Login_table

Fields	Data Type	Size	Attributes
Login_id	Varchar2	6	Unique key
Login_name	Varchar2	15	Unique key
password	Varchar2	20	Not null

ER Model Diagram



ER DIAGRAM TO RELATIONAL ALGEBRA MODEL:

Employee_info :

Fields	Data Type	Size	Attributes
Emp_ID	Varchar2	5	Primary Key
Emp_name	Varchar2	15	Not NULL
Emp_mobile	Varchar2	10	Not NULL

Consignment_details :

Fields	Data Type	Size	Attributes
Emp_ID	Varchar2	5	Foreign Key
Consign_ID	Varchar2	10	Unique key
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Sender_mobile	Varchar2	10	Not null
S_city	Varchar2	15	Not null
S_date	date	-	Not null

Fields	Data Type	Size	Attributes
Receiver_name	Varchar2	20	Not null
Receiver_address	Varchar2	200	Not null
Receiver_mobile	Varchar2	10	Not null
R_city	Varchar2	15	Not null
R_date	date	-	Not null

Login_table

Fields	Data Type	Size	Attributes
Login_id	Varchar2	6	Unique key
Login_name	Varchar2	15	Unique key
password	Varchar2	20	Not null

WORKING METHODOLOGY:

The system has many modules. The home page has the information about the website. It also has admin login and consignment check option.

If the user/admin wants to login to his/her account, he/she has to click on admin login option. After clicking on admin login, it will ask for username and password of the account along with the courier office name under which he/she is registered. After entering the correct details, login home page opens which has multiple options like courier offices list, consignment list, add consignment options, etc.

If a user wants to add new courier office, he /she can fill in all the required details and a new office gets added. The user/admin can also have a look at all the offices registered by clicking on view offices option. A user can also add new manager and list all the managers. If a user/admin wants to edit the details of the manager then he/she can click on edit option and change the details.

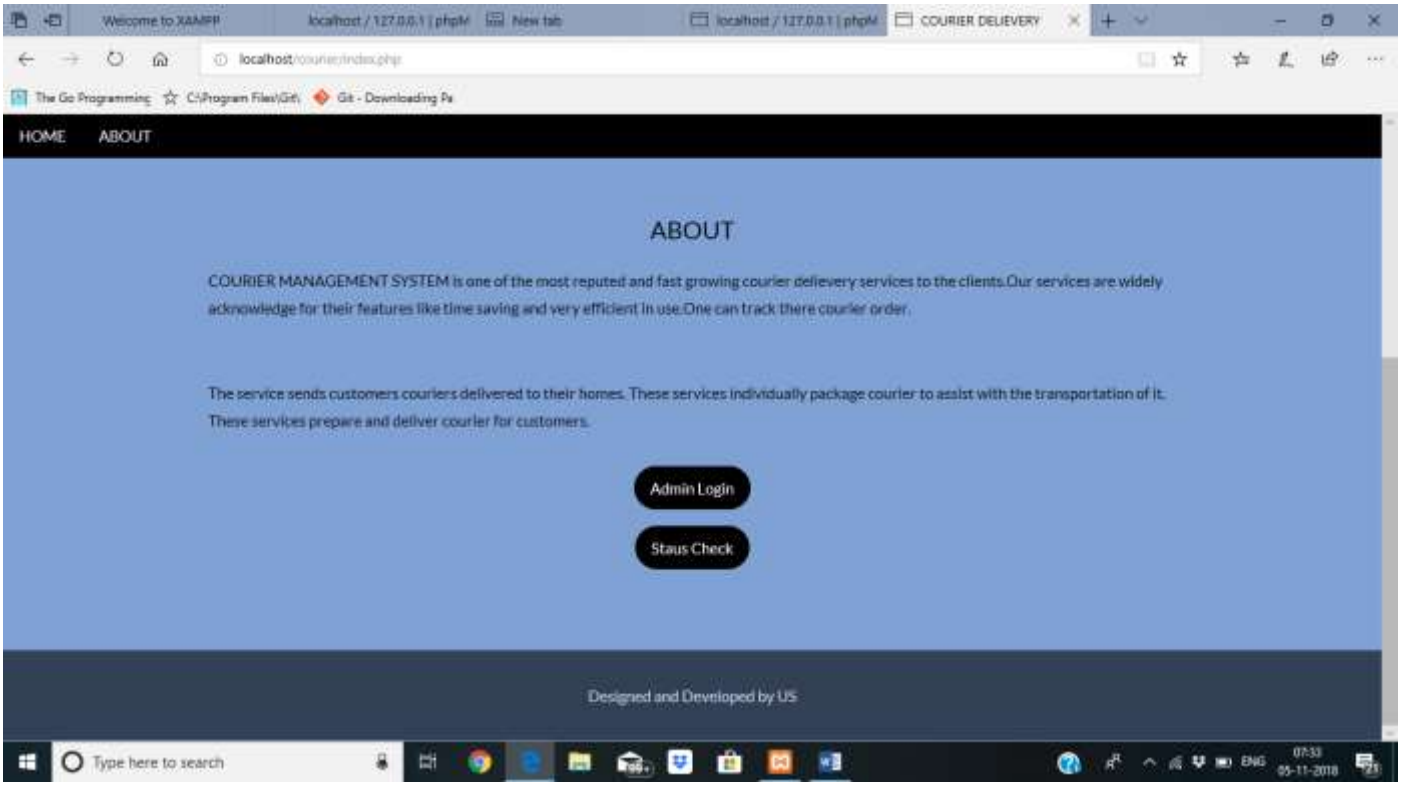
A user/admin can also add new consignment, list all the consignment details and also edit the status of the consignment. If a user/admin wants to change password to his/her login, he/she can click on change password option. It will ask for new password and will ask to retype it. When submit option is hit, the password gets updated and a message is displayed showing the change in the password.

The admin can logout from the account by selecting logout option which takes the user back to home page.

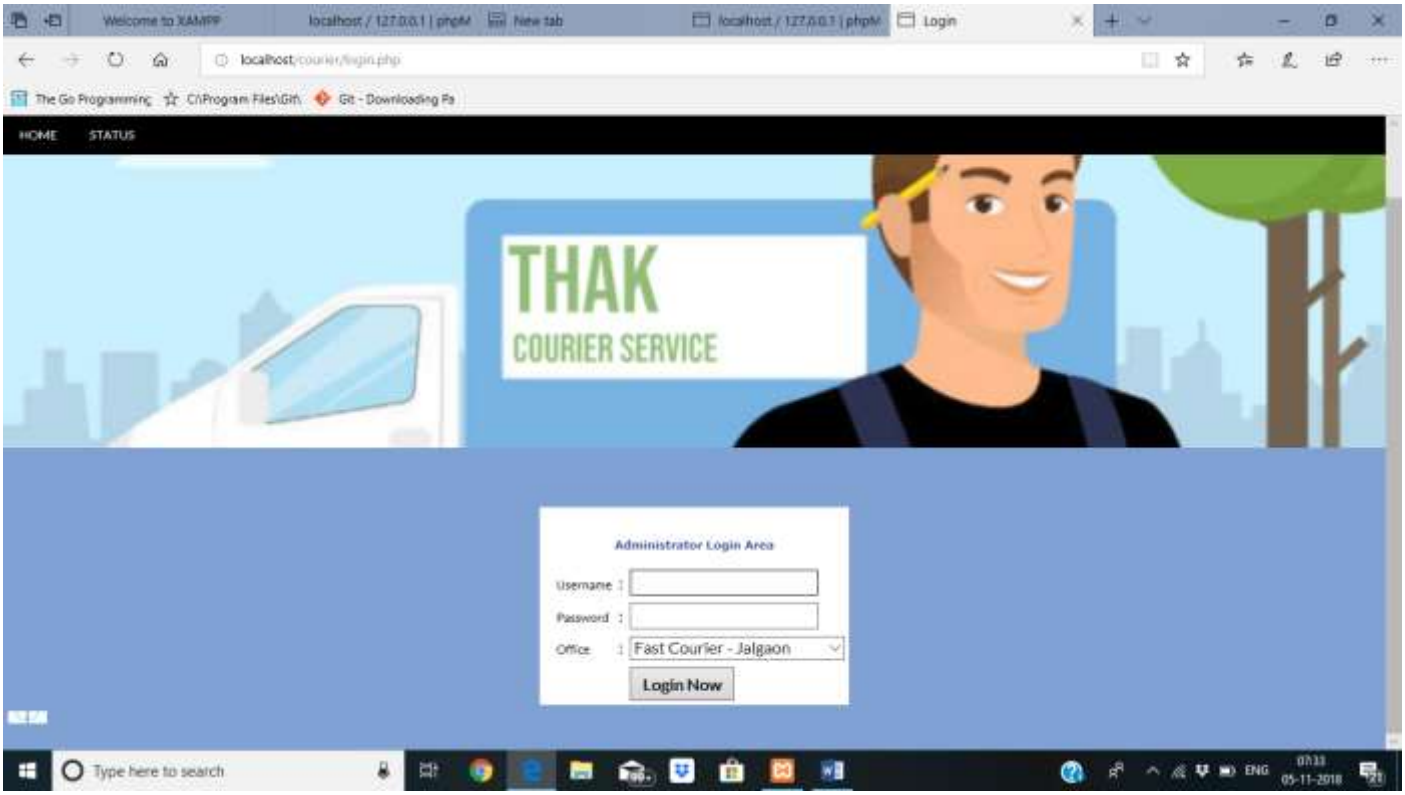
The home page has an option to track the consignment. When the user click on track consignment option, a new page opens which asks for the consignment ID. When the user enter the consignment ID and click on track option. A new page opens showing the details and status of the consignment.

FRONTEND SCREENSHOTS:

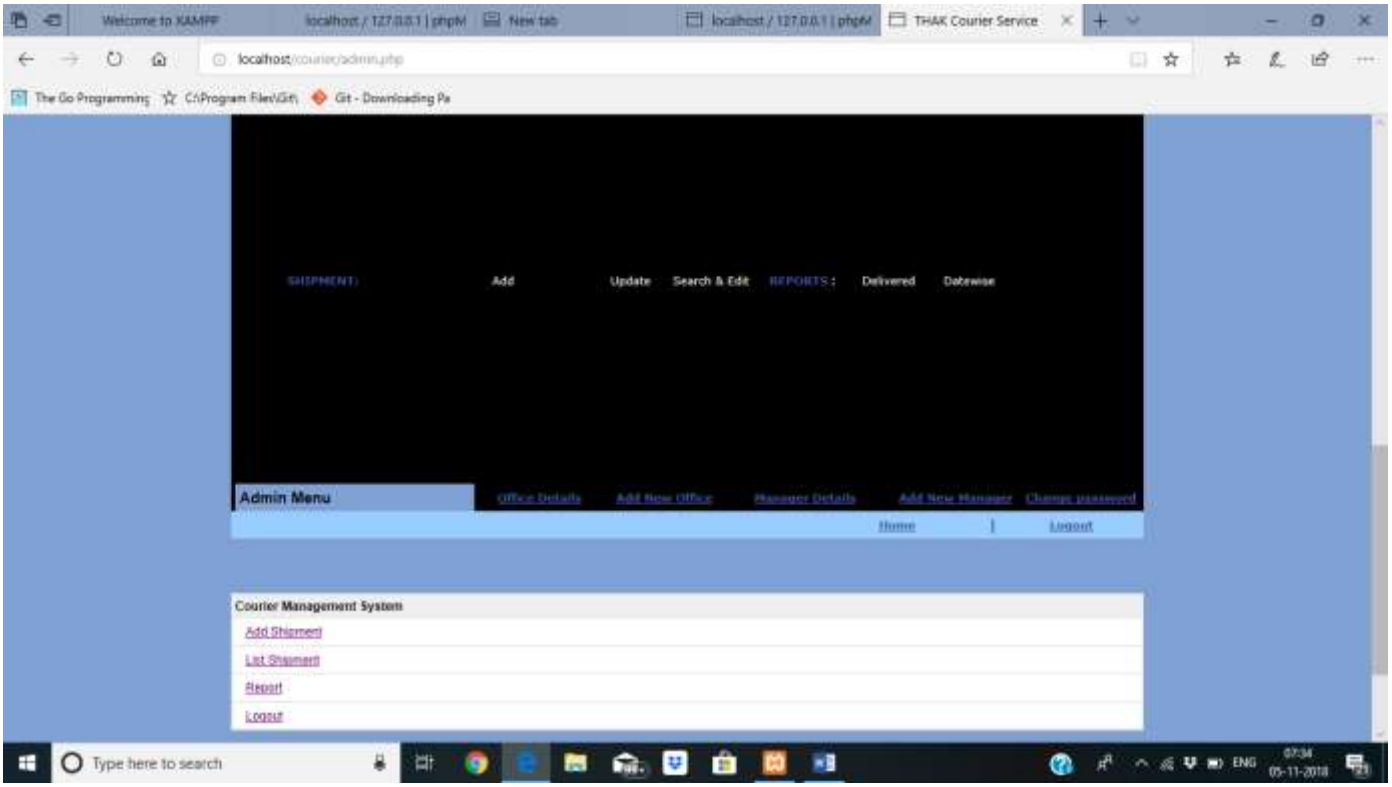
HOME PAGE:



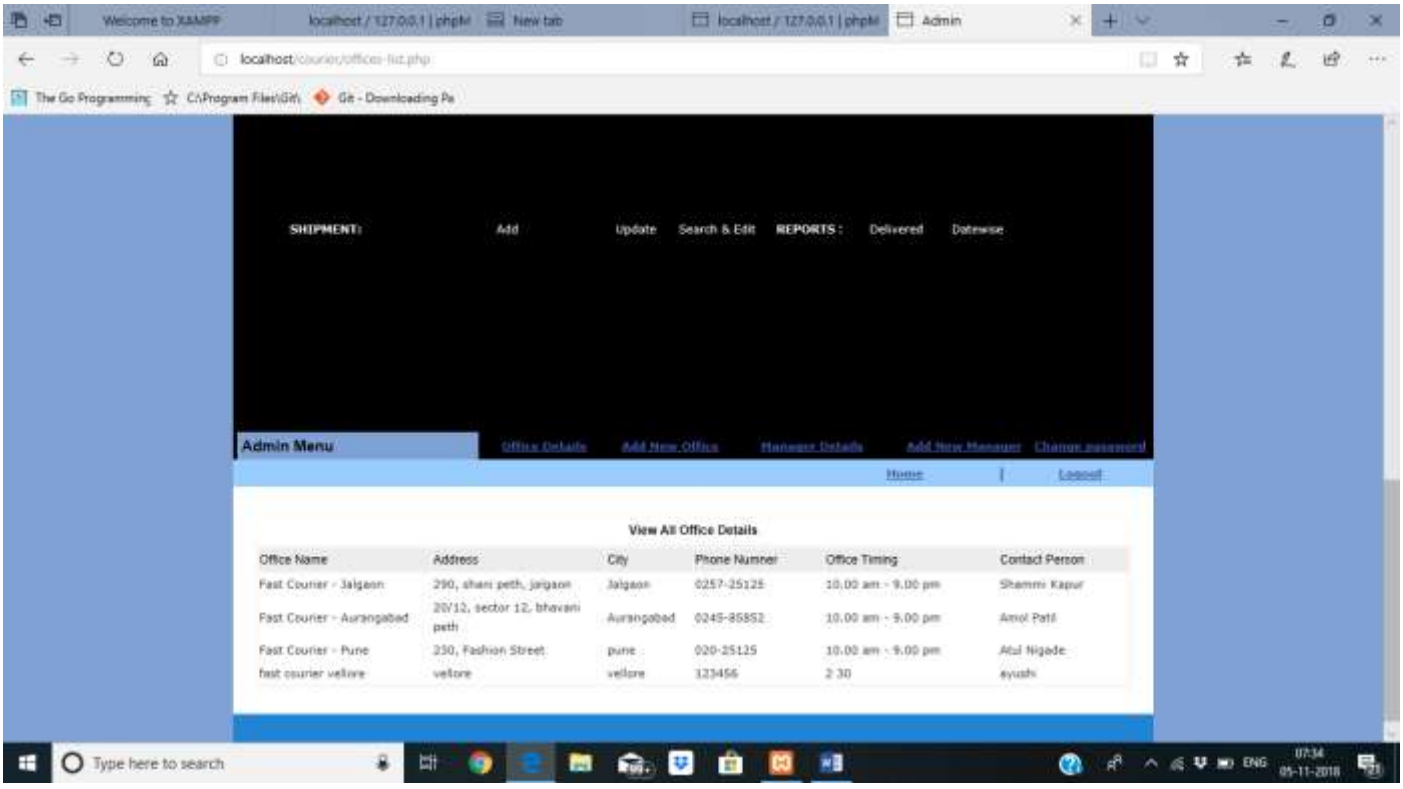
ADMIN LOGIN PAGE:



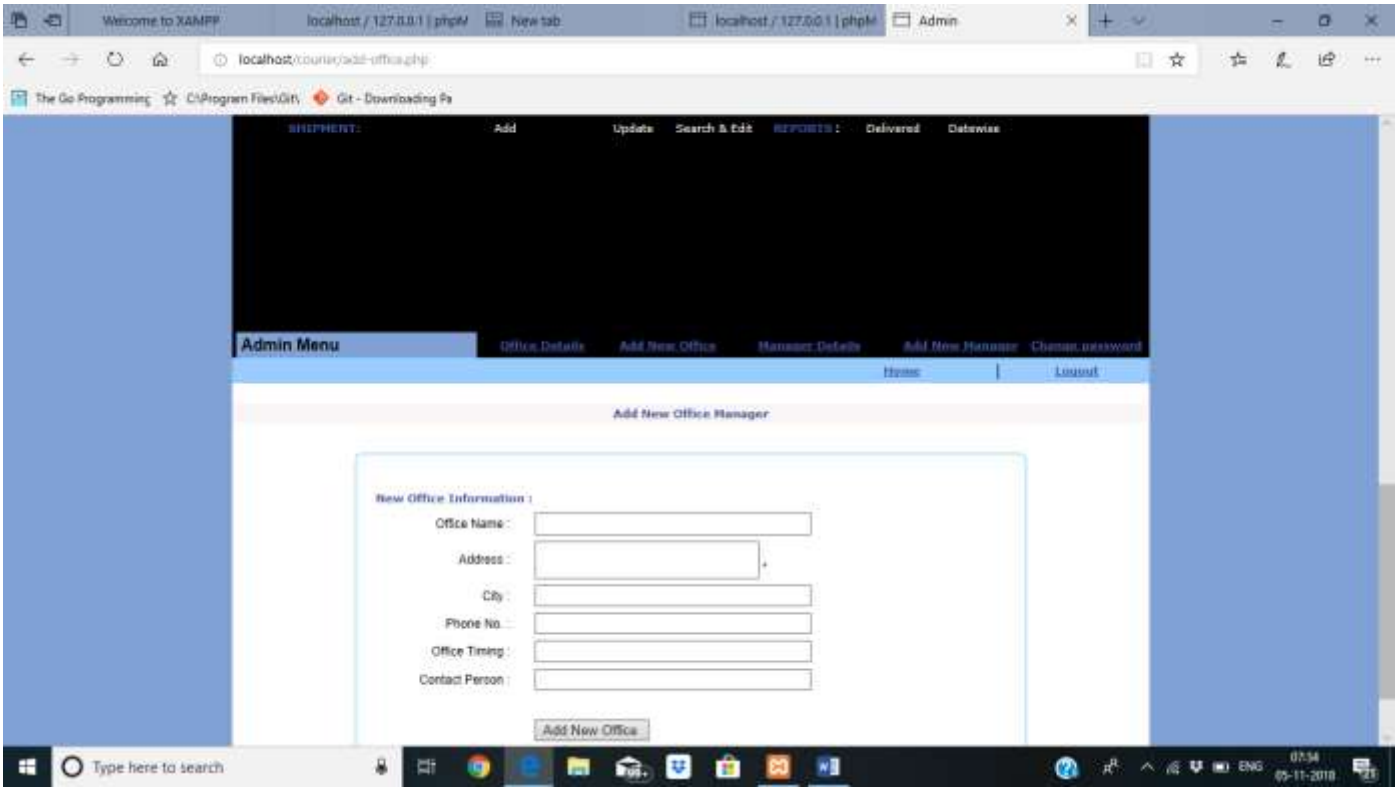
LOGIN HOME PAGE:



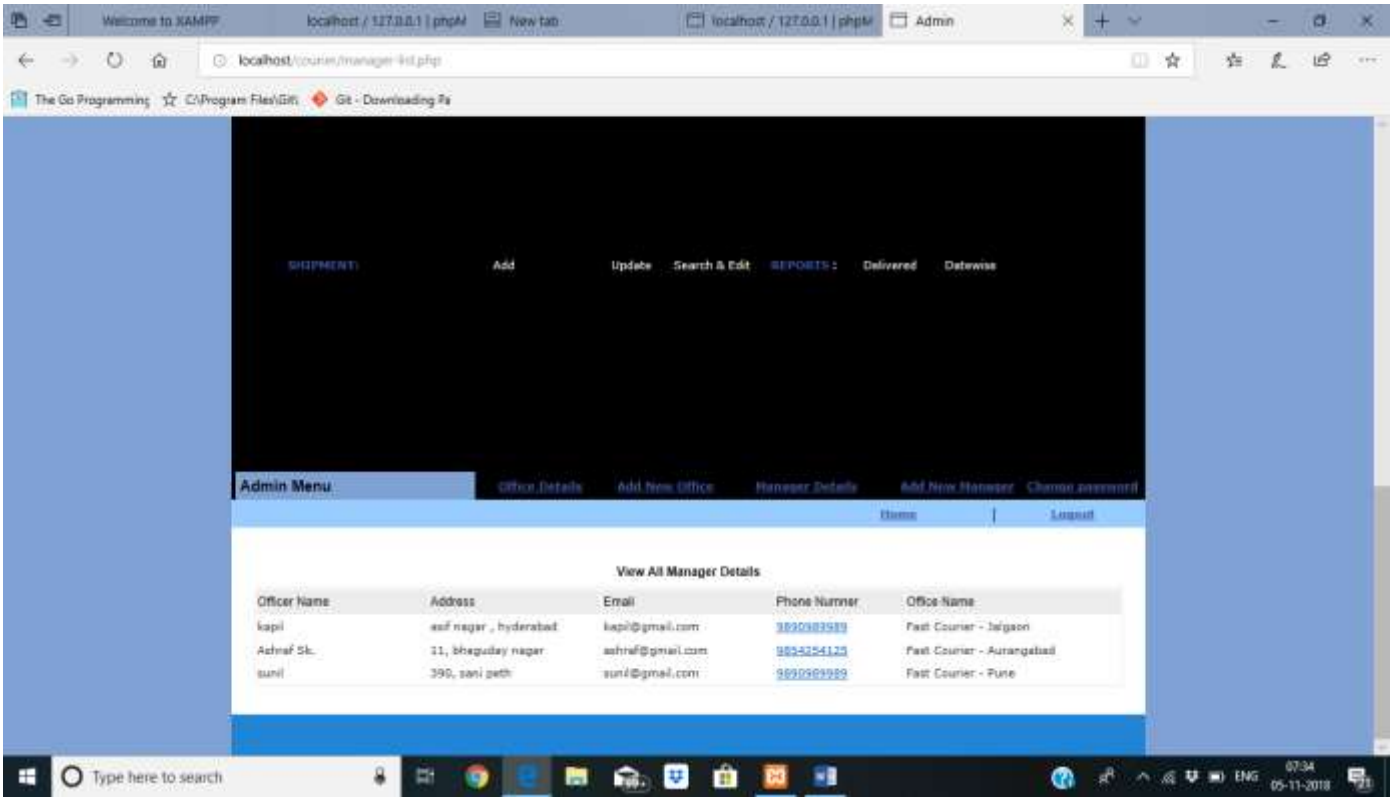
OFFICE DETAILS PAGE:



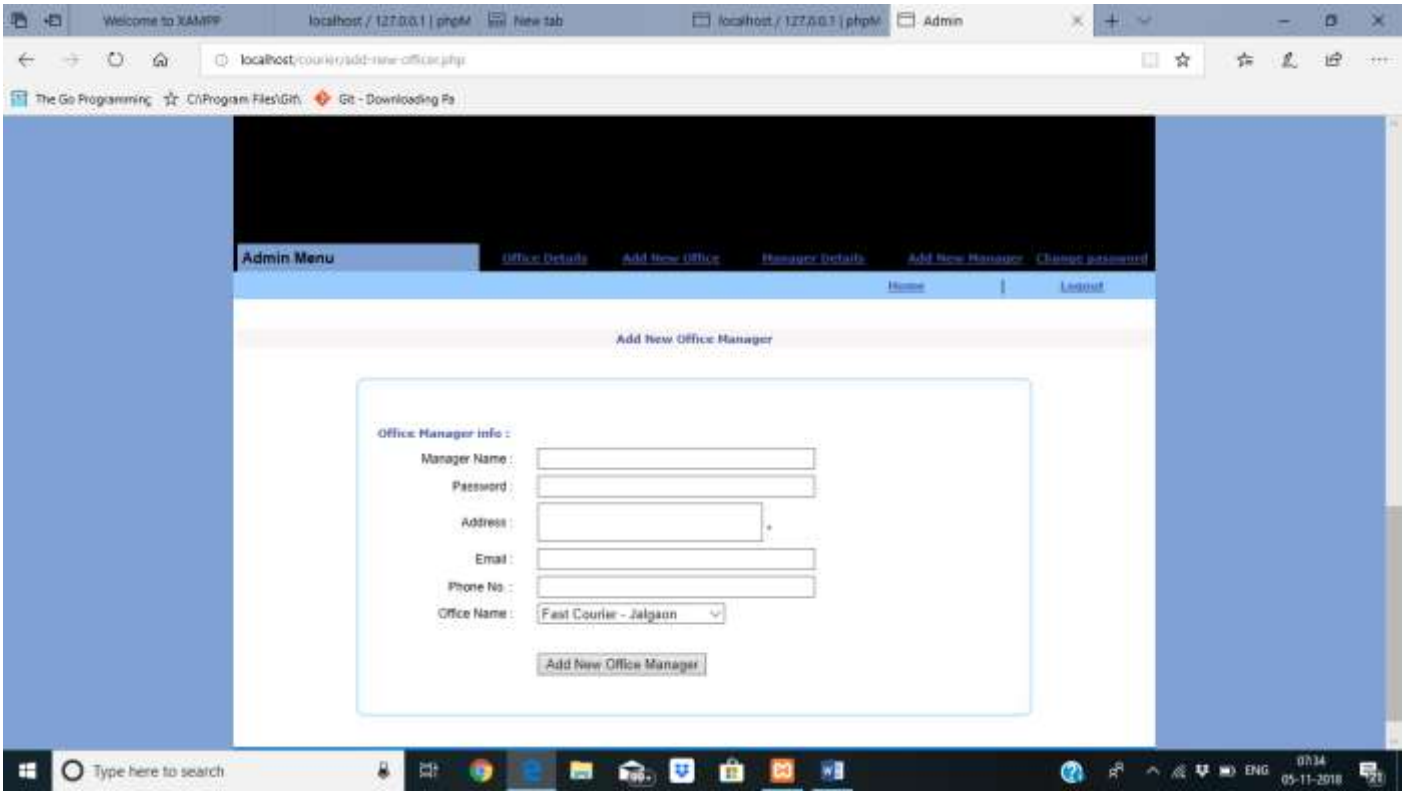
ADD NEW OFFICE PAGE:



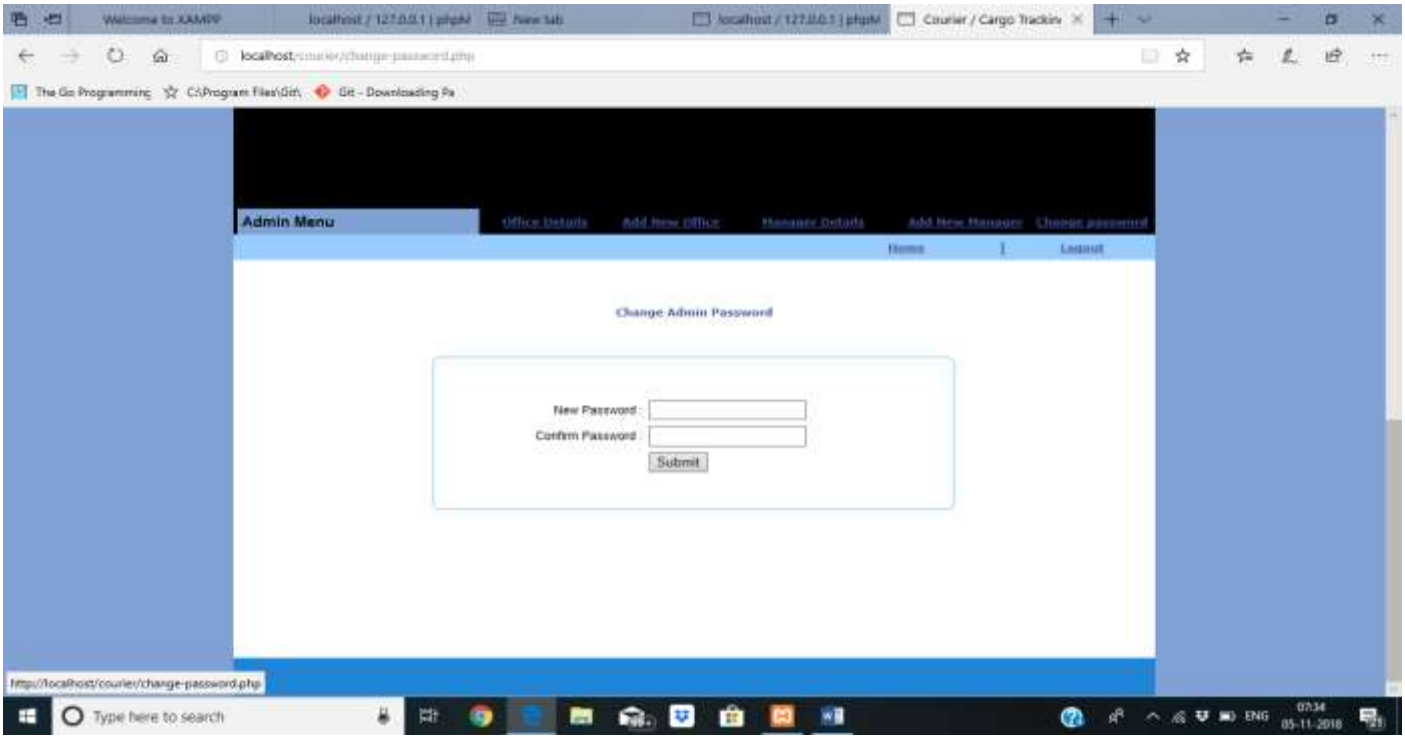
VIEW MANAGERS PAGE:



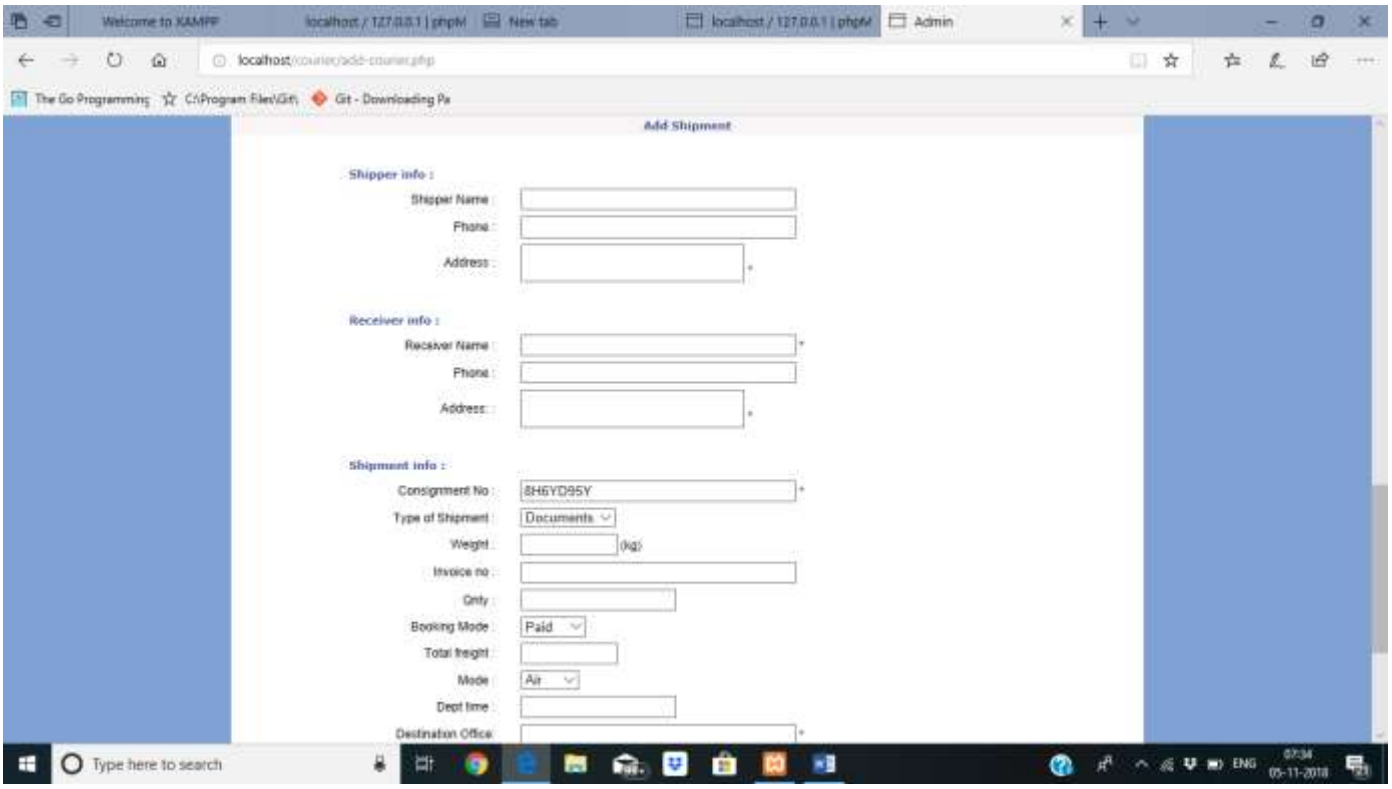
ADD NEW OFFICE MANAGER PAGE:



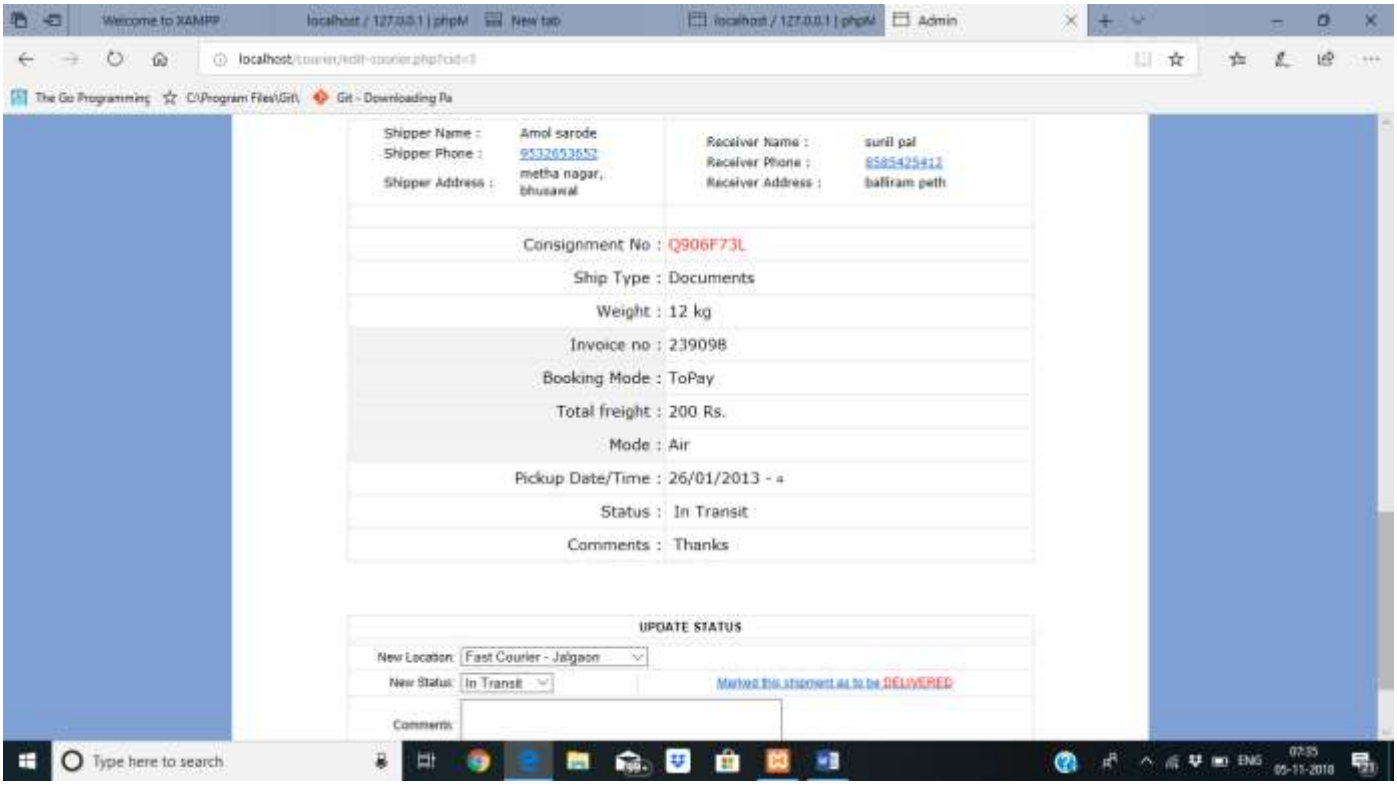
CHANGE PASSWORD PAGE:



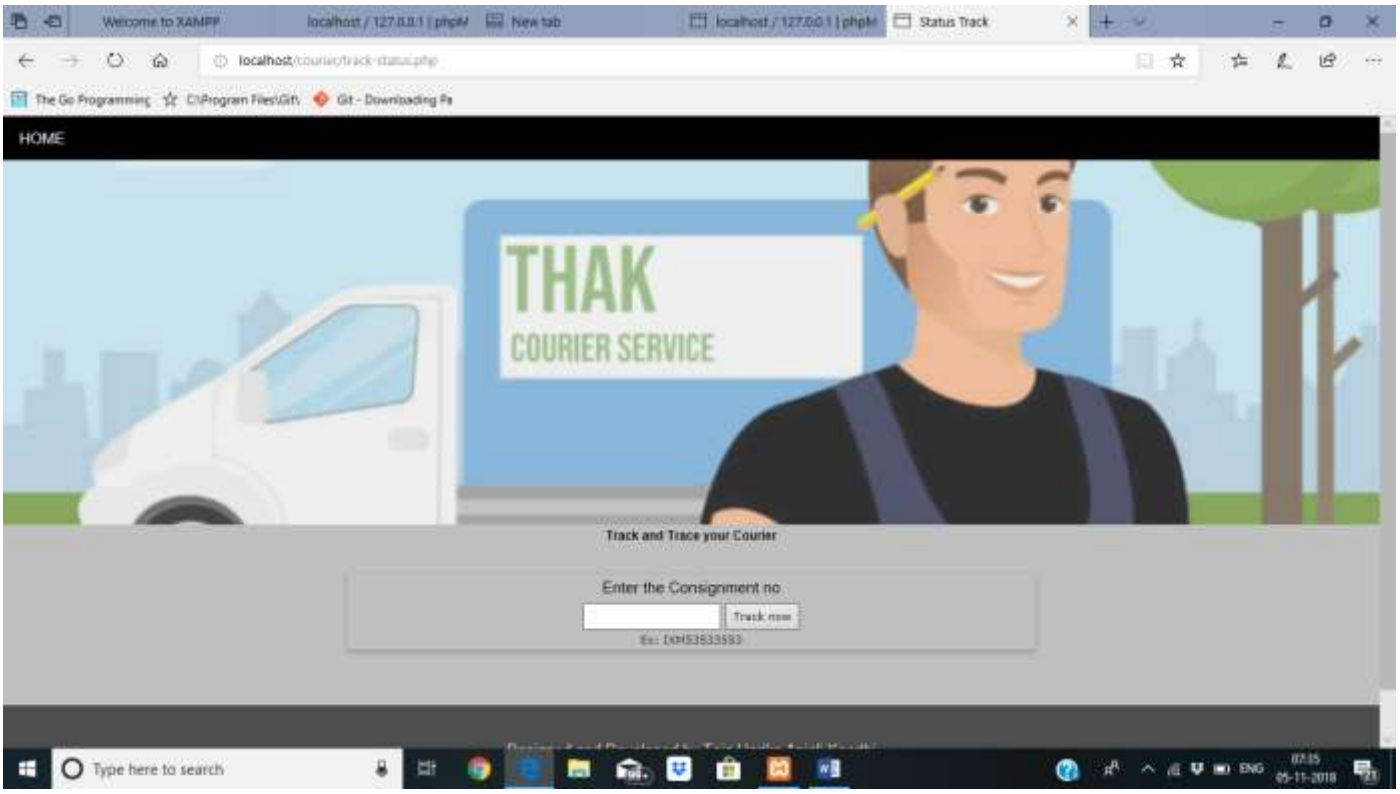
ADD SHIPMENT PAGE:



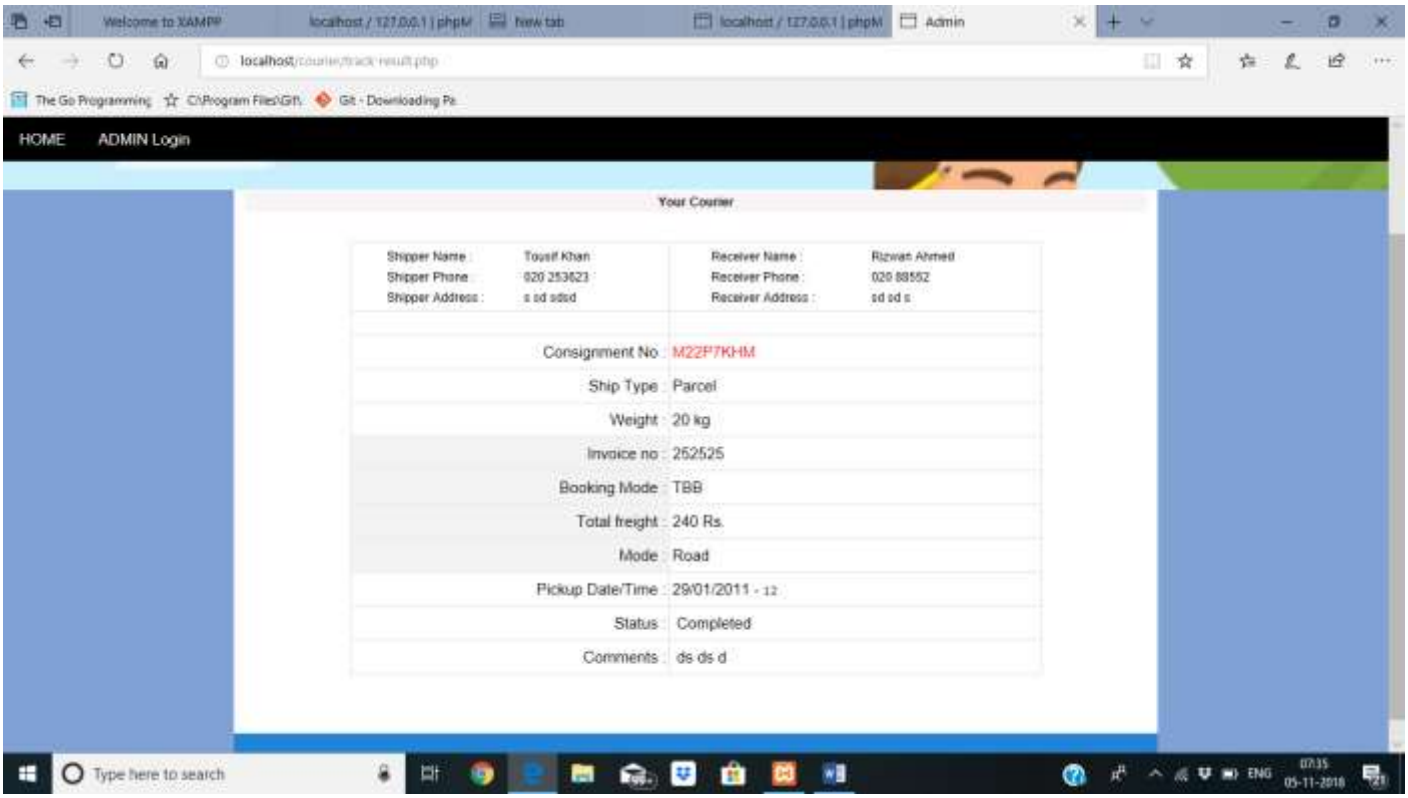
UPDATE CONSIGNMENT DETAILS:



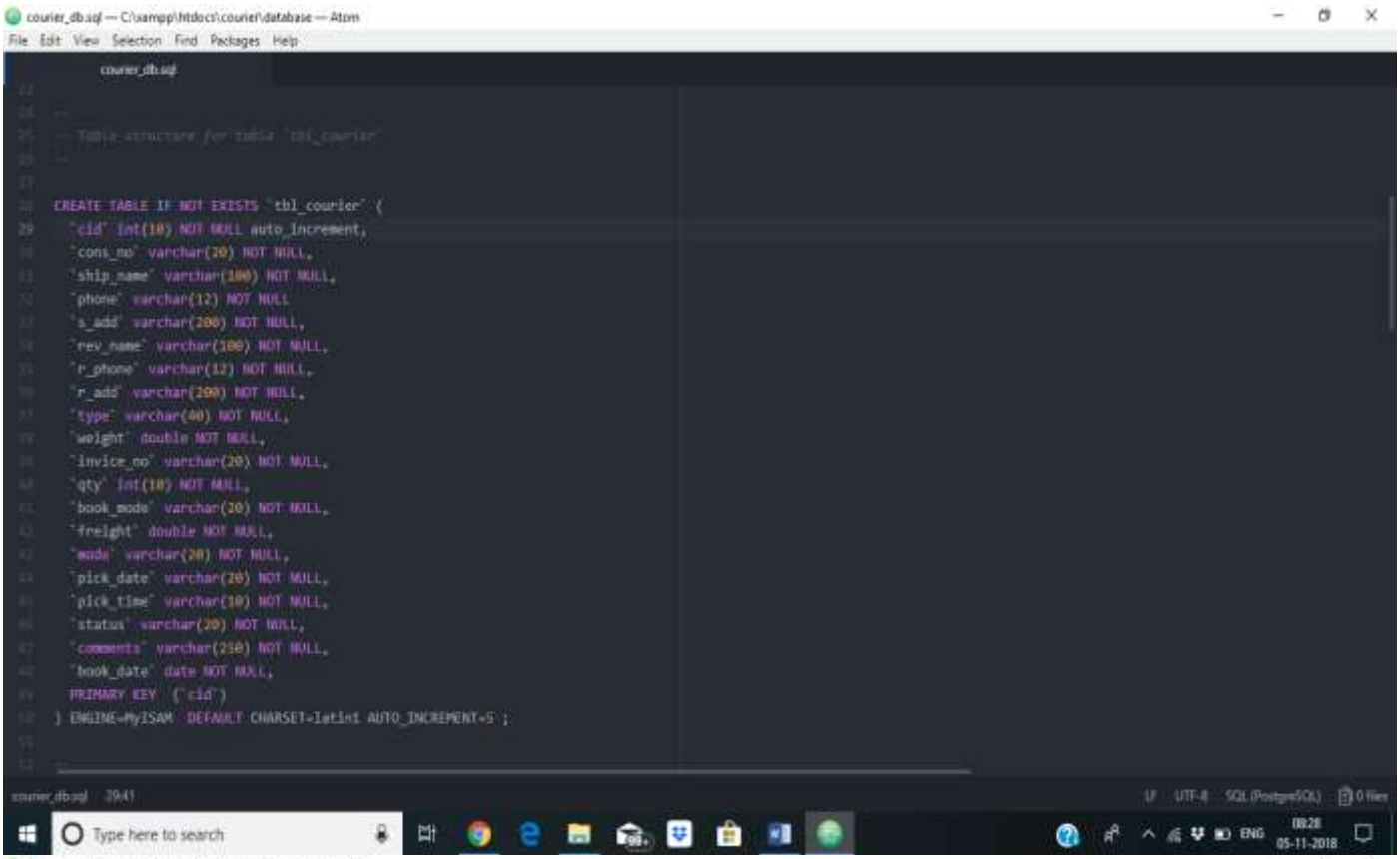
TRACK CONSIGNMENT PAGE:



CONSIGNMENT DETAILS:



BACKEND SCREENSHOTS:



```
courier_db.sql — C:\xampp\htdocs\courier\database — Atom
File Edit View Selection Find Packages Help
courier_db.sql

--
-- Table structure for table `tbl_courier`
--

CREATE TABLE IF NOT EXISTS `tbl_courier` (
  `cid` int(10) NOT NULL auto_increment,
  `cons_no` varchar(20) NOT NULL,
  `ship_name` varchar(100) NOT NULL,
  `phone` varchar(12) NOT NULL
  `s_add` varchar(200) NOT NULL,
  `rev_name` varchar(100) NOT NULL,
  `r_phone` varchar(12) NOT NULL,
  `r_add` varchar(200) NOT NULL,
  `type` varchar(40) NOT NULL,
  `weight` double NOT NULL,
  `invice_no` varchar(20) NOT NULL,
  `qty` int(10) NOT NULL,
  `book_mode` varchar(20) NOT NULL,
  `freight` double NOT NULL,
  `mode` varchar(20) NOT NULL,
  `pick_date` varchar(20) NOT NULL,
  `pick_time` varchar(10) NOT NULL,
  `status` varchar(20) NOT NULL,
  `comments` varchar(250) NOT NULL,
  `book_date` date NOT NULL,
  PRIMARY KEY (`cid`)
) ENGINE=MyISAM  DEFAULT CHARSET=latin1 AUTO_INCREMENT=5 ;

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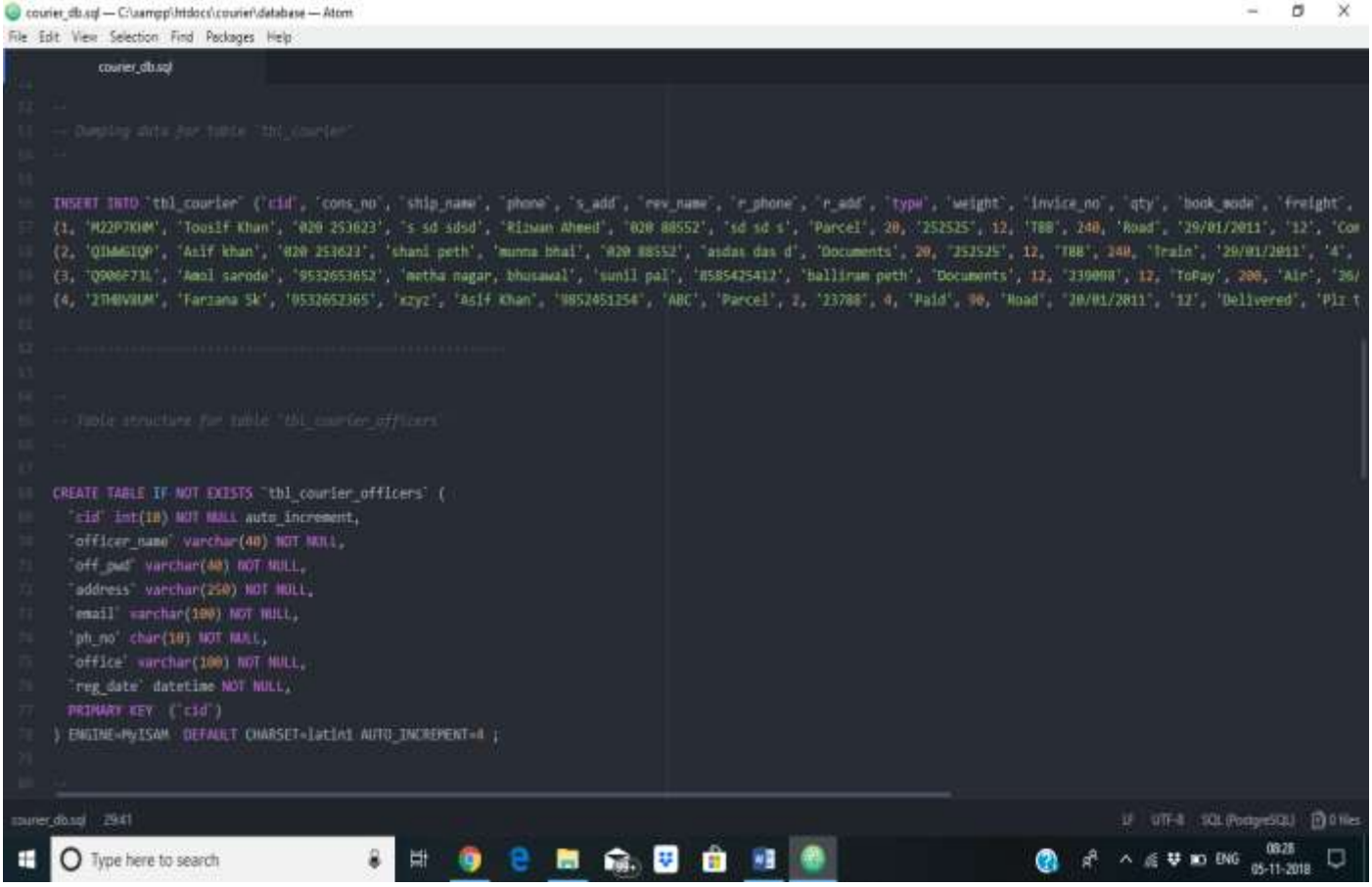

```
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File Edit View Selection Find Packages Help
courier_db.sql

--
-- Dumping data for table `tbl_courier`
--

INSERT INTO `tbl_courier` (`cid`, `cons_no`, `ship_name`, `phone`, `s_add`, `rev_name`, `r_phone`, `r_add`, `type`, `weight`, `invice_no`, `qty`, `book_mode`, `freight`,
(1, 'M22P7KHM', 'Toosif Khan', '020 253623', 's sd sdsd', 'Rizwan Ahmed', '020 88552', 'sd sd s', 'Parcel', 20, '252525', 12, 'TBB', 240, 'Road', '29/01/2011', '12', 'Cor
(2, 'QIW4GIQP', 'Asif khan', '020 253623', 'shani peth', 'munna bhai', '020 88552', 'asdas das d', 'Documents', 20, '252525', 12, 'TBB', 240, 'Train', '29/01/2011', '4',
(3, 'Q906F7JL', 'Amol sarode', '9532653652', 'metha nagar, bhusawal', 'sunil pal', '8585425412', 'balliram peth', 'Documents', 12, '330008', 12, 'ToPay', 200, 'Air', '26/
(4, '2THBV8UM', 'Farzana Sk', '9532652365', 'xzyz', 'Asif Khan', '9852451254', 'ABC', 'Parcel', 2, '23788', 4, 'Paid', 90, 'Road', '30/01/2011', '12', 'Delivered', 'Plz t

--
-- Table structure for table `tbl_courier_officers`
--

CREATE TABLE IF NOT EXISTS `tbl_courier_officers` (
  `cid` int(10) NOT NULL auto_increment,
  `officer_name` varchar(40) NOT NULL,
  `off_pwd` varchar(40) NOT NULL,
  `address` varchar(250) NOT NULL,
  `email` varchar(100) NOT NULL,
  `ph_no` char(10) NOT NULL,
  `office` varchar(100) NOT NULL,
  `reg_date` datetime NOT NULL,
  PRIMARY KEY (`cid`)
) ENGINE=MyISAM  DEFAULT CHARSET=latin1 AUTO_INCREMENT=4 ;

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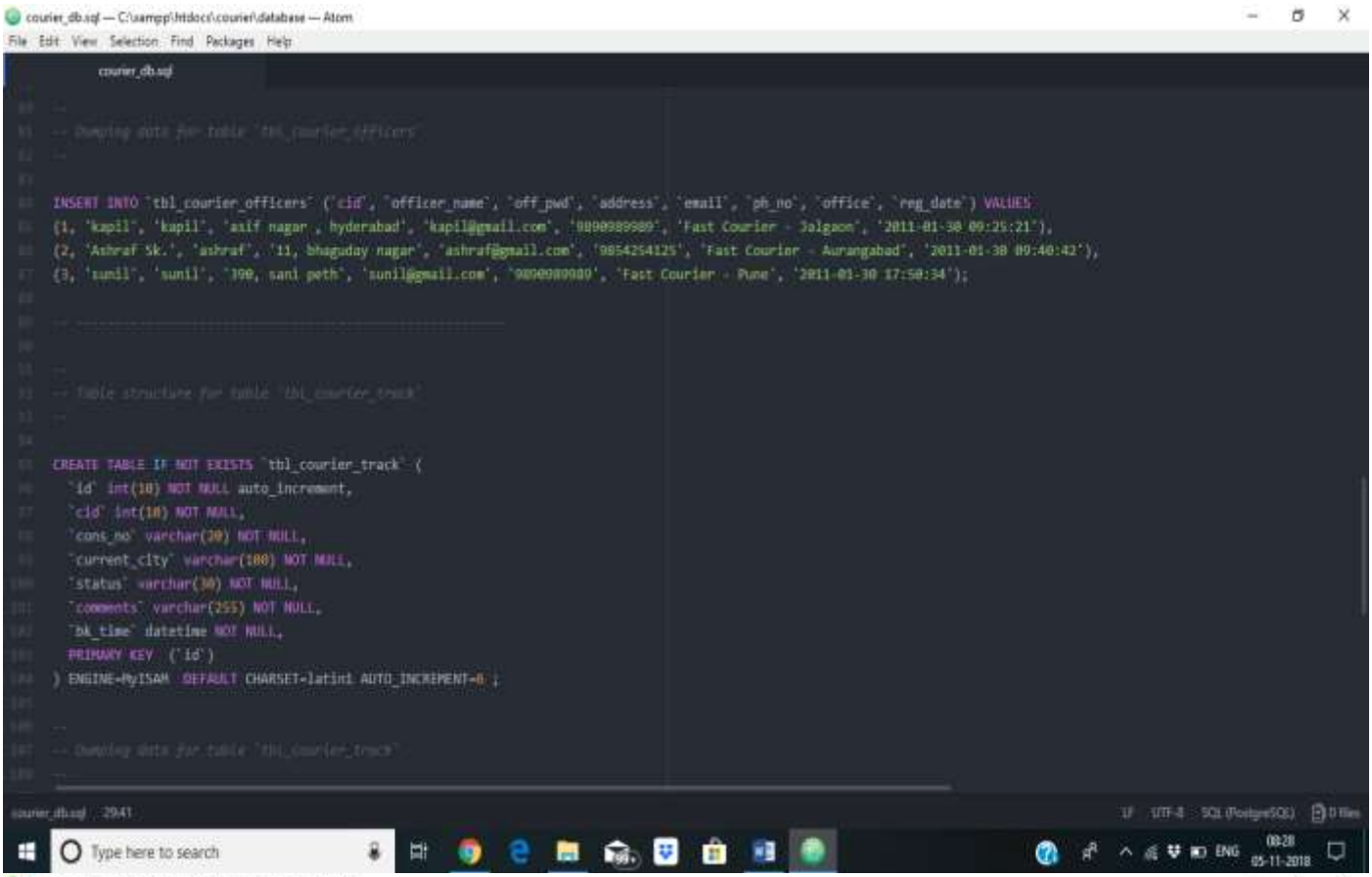
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courier_db.sql
-- Dumping data for table `tbl_courier_officers`
INSERT INTO `tbl_courier_officers` (`cid`, `officer_name`, `off_pwd`, `address`, `email`, `ph_no`, `office`, `reg_date`) VALUES
(1, 'kapil', 'kapil', 'asif nagar , hyderabad', 'kapil@gmail.com', '9890989989', 'Fast Courier - Jalgaon', '2011-01-30 09:25:21'),
(2, 'Ashraf Sk.', 'ashraf', '11, bhaguday nagar', 'ashraf@gmail.com', '9854254125', 'Fast Courier - Aurangabad', '2011-01-30 09:40:42'),
(3, 'sunil', 'sunil', '190, sani peth', 'sunil@gmail.com', '9890080089', 'Fast Courier - Pune', '2011-01-30 17:50:34');
-- Table structure for table `tbl_courier_track`
CREATE TABLE IF NOT EXISTS `tbl_courier_track` (
`id` int(10) NOT NULL auto_increment,
`cid` int(10) NOT NULL,
`cons_no` varchar(30) NOT NULL,
`current_city` varchar(100) NOT NULL,
`status` varchar(30) NOT NULL,
`comments` varchar(255) NOT NULL,
`bk_time` datetime NOT NULL,
PRIMARY KEY (`id`)
) ENGINE=MyISAM DEFAULT CHARSET=latin1 AUTO_INCREMENT=6 ;
-- Dumping data for table `tbl_courier_track`
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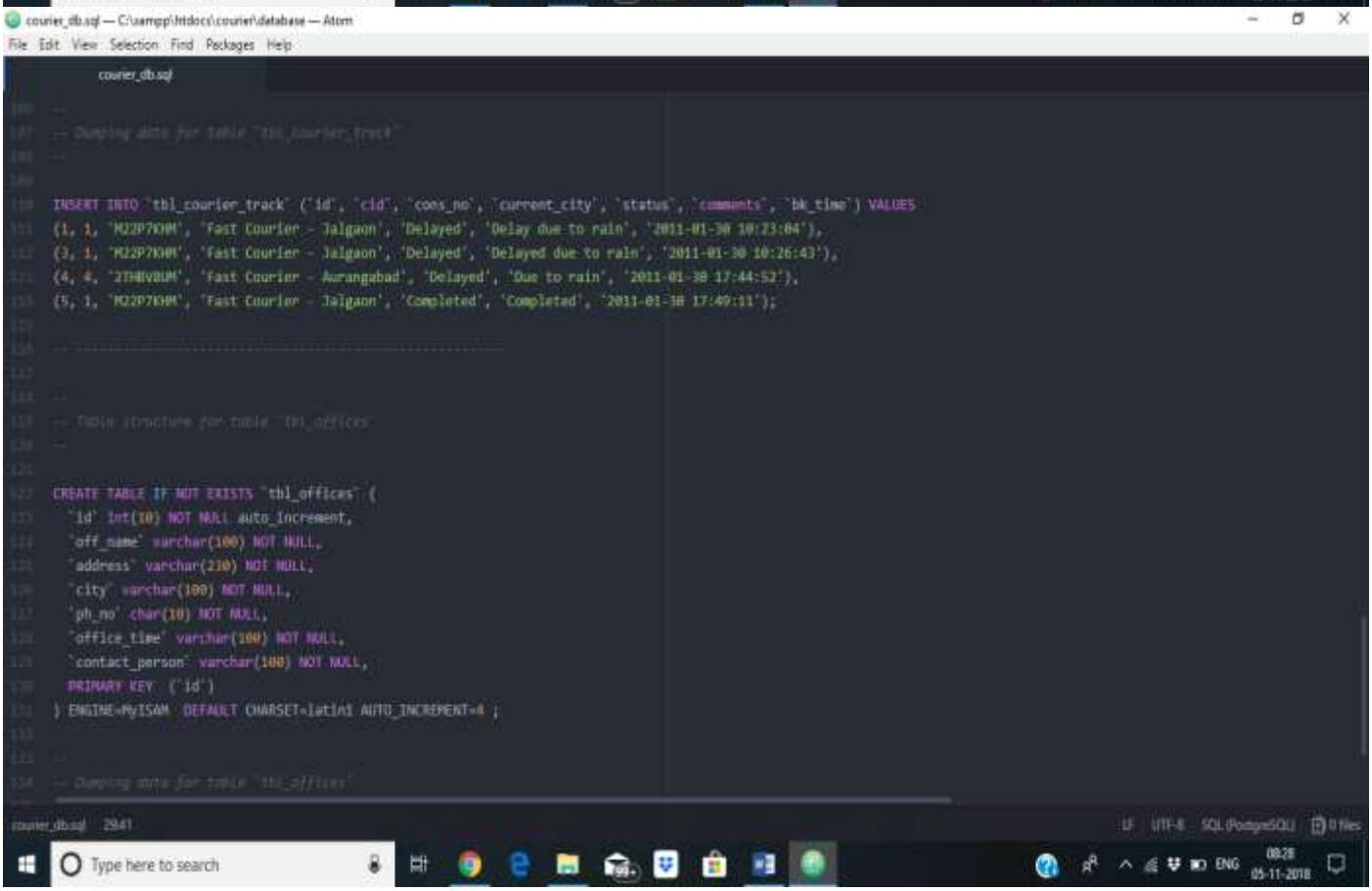
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courier_db.sql
-- Dumping data for table `tbl_courier_track`
INSERT INTO `tbl_courier_track` (`id`, `cid`, `cons_no`, `current_city`, `status`, `comments`, `bk_time`) VALUES
(1, 1, 'M22P7KHM', 'Fast Courier - Jalgaon', 'Delayed', 'Delay due to rain', '2011-01-30 10:23:04'),
(3, 1, 'M22P7KHM', 'Fast Courier - Jalgaon', 'Delayed', 'Delayed due to rain', '2011-01-30 10:26:43'),
(4, 4, '2TH8VBUM', 'Fast Courier - Aurangabad', 'Delayed', 'Due to rain', '2011-01-30 17:44:52'),
(5, 1, 'M22P7KHM', 'Fast Courier - Jalgaon', 'Completed', 'Completed', '2011-01-30 17:49:11');
-- Table structure for table `tbl_offices`
CREATE TABLE IF NOT EXISTS `tbl_offices` (
`id` int(10) NOT NULL auto_increment,
`off_name` varchar(100) NOT NULL,
`address` varchar(230) NOT NULL,
`city` varchar(100) NOT NULL,
`ph_no` char(10) NOT NULL,
`office_time` varchar(100) NOT NULL,
`contact_person` varchar(100) NOT NULL,
PRIMARY KEY (`id`)
) ENGINE=MyISAM DEFAULT CHARSET=latin1 AUTO_INCREMENT=4 ;
-- Dumping data for table `tbl_offices`
courier_db.sql 2941
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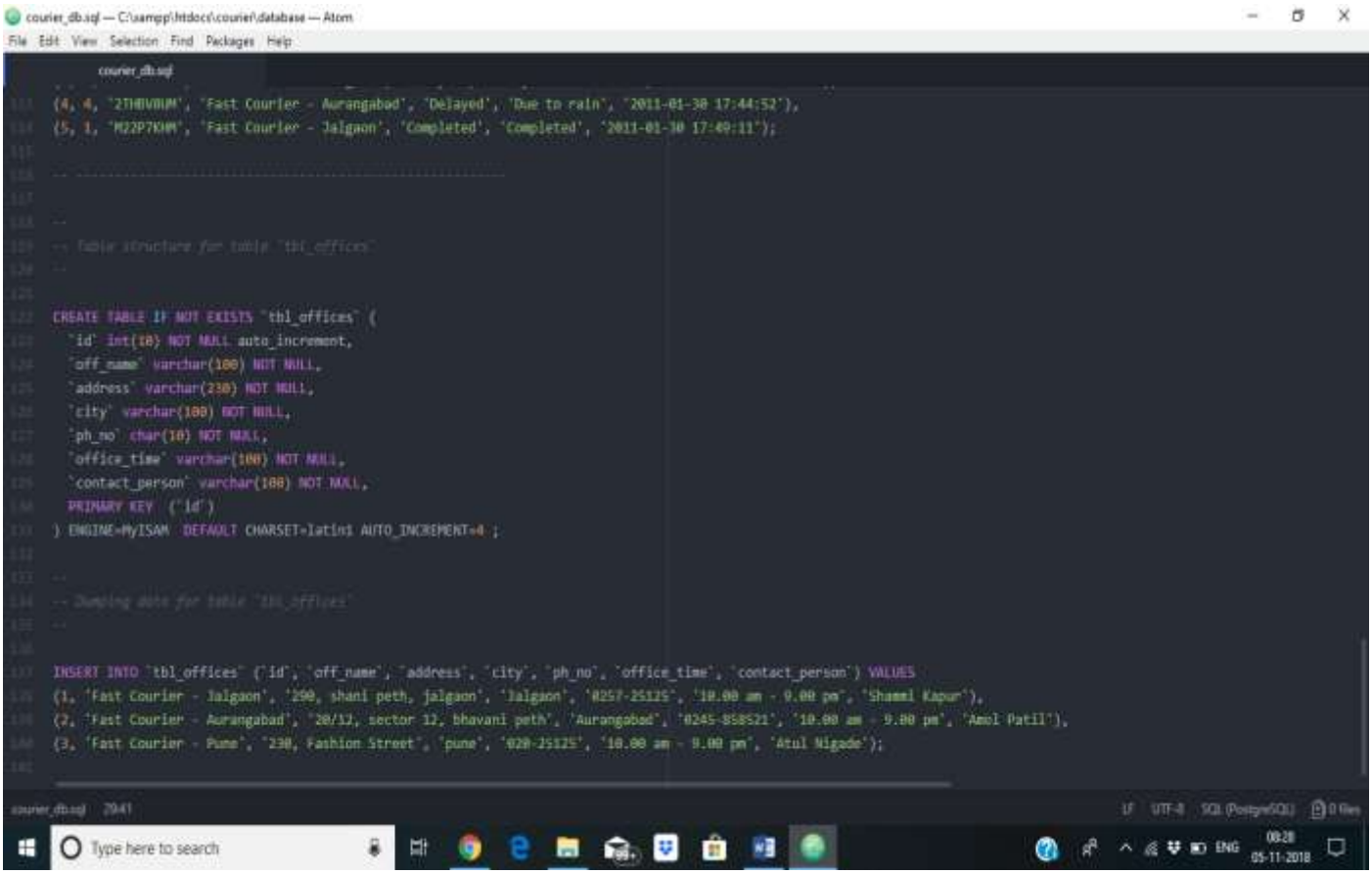

CONCLUSION

We have created a basic courier information system that can allows login for an employee to insert, update, or delete information or data by logging in through the front end. The employee can accordingly update and maintain the status of the consignment. The user can check the status of the consignment similarly through the front end by inputting the consignment number.

For the back end, we created simple tables and added constraints accordingly and inserted information related to the consignment, office and related data. On linking the front end and back end of this courier information database system, the result is a simple functioning courier information system. This is our project for the course database management systems.