United International University
Department of Computer Science and Engineering

December 30, 2017

Project Report:
Database Management System Laboratory
Fall - 2017

Project Name:
Inventory management system

Project Members:

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1 Project Description

1.1 Overview

An inventory management system of different kind of "Lab equipment. It will contain the list of product type (serial no, name, price etc. attributes).admin can add or remove products. Also the quantity of product can be changed (how many sold or bought) and product description can be changed. There will be a history of which product is selling or buying from which customer or to which supplier. Also there will be a list of customer or supplier who buy or supply which (includes types quantity date) products. Weekly, monthly yearly sale and profit will be calculated (optional: also the graph of the rate will be provided).finally customers can visit the site and place the order what they want. We will add some more necessary information and features if needed in future InshaAllah.

2 Features

1. Search Product
2. Order Product
3. Admin can modify product
4. Delivery history
5. View previous order
6. Add images and manage uploaded images from library
7. Store supplier information for further supply

3 Project ER Diagram

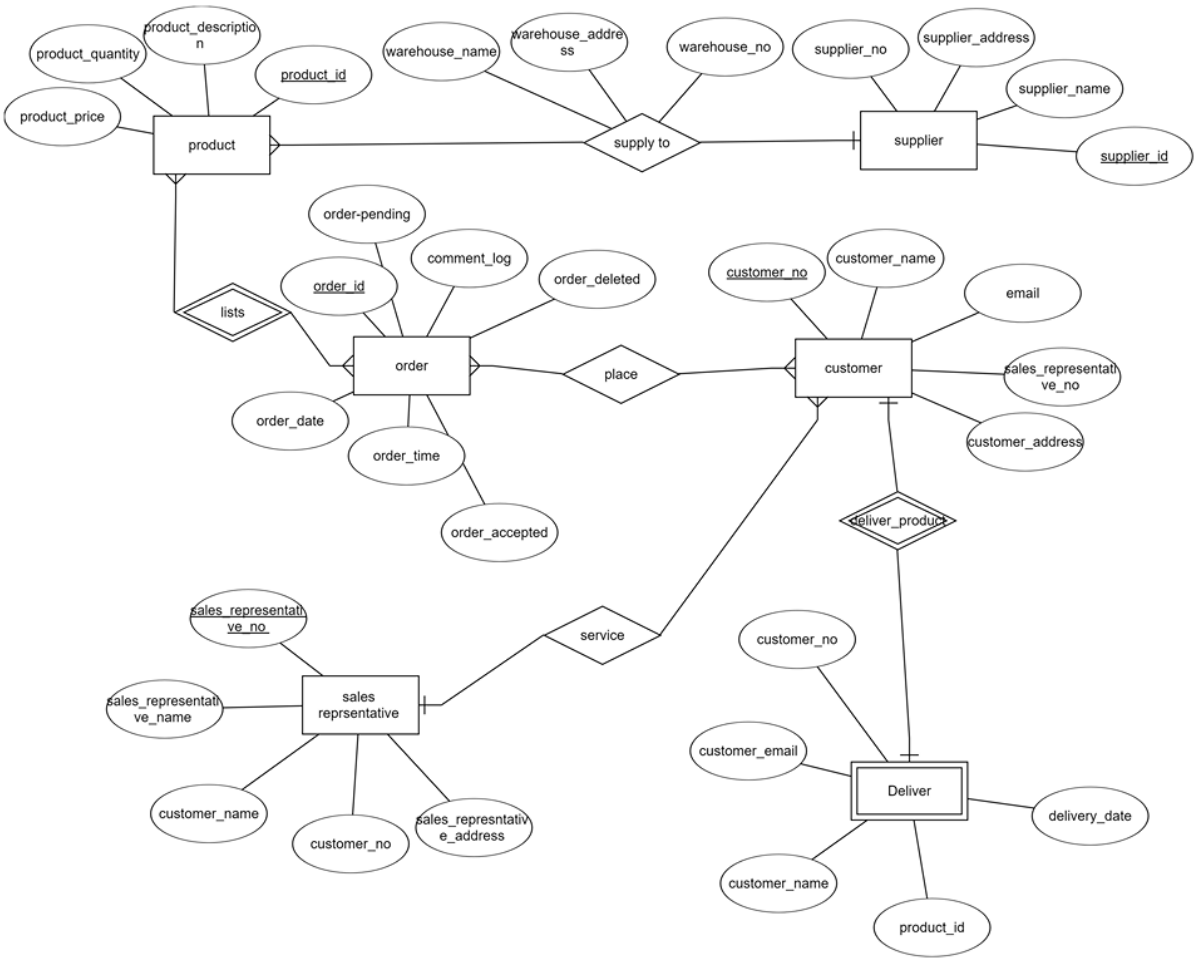

Figure 1: ERD Diagram

4 Project Schema Diagram

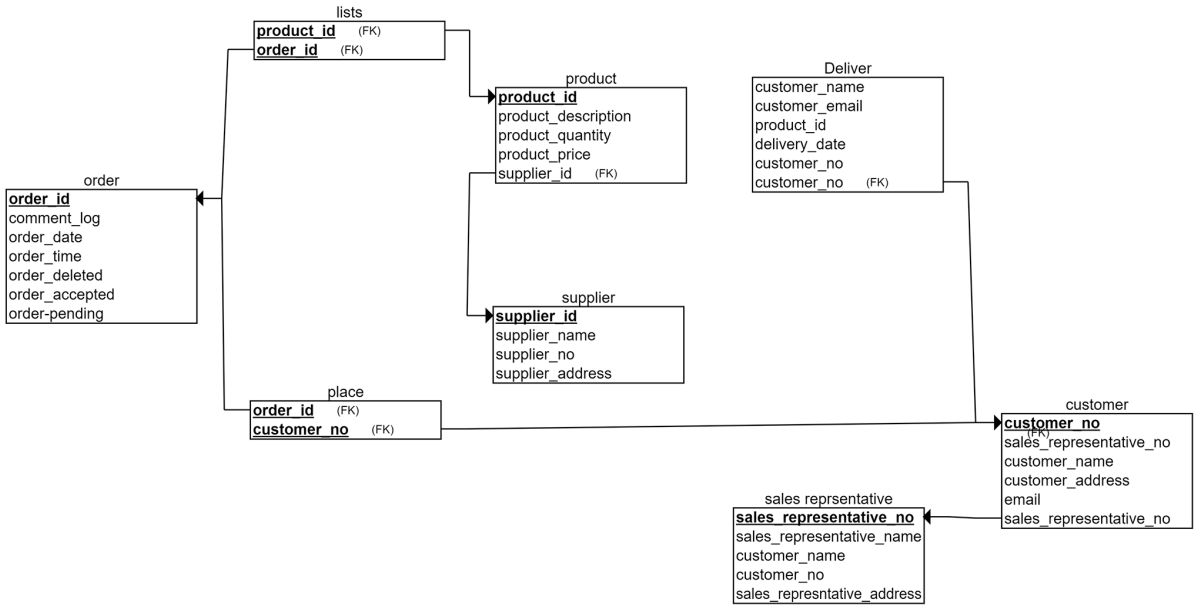

Figure 2: Schema

5 Source of Database

5.1 DDL

– phpMyAdmin SQL Dump
– version 4.7.4
– https://www.phpmyadmin.net/
– Host: 127.0.0.1
– Server version: 10.1.29-MariaDB
– PHP Version: 7.2.0
SET SQL$_{M}ODE = "NO_{A}UTO_{V}ALUE_{O}N_{Z}ERO"$;
$SETAUTOCOMMIT = 0$;
$STARTTRANSACTION$;
$--Database$: ‘$inventory$‘
– Table structure for table ‘customer‘

CREATE TABLE ‘customer‘ (
‘customer$_{n}ame$‘$varchar(20)NOTNULL$,
‘$customer_{a}ddress$‘$varchar(50)NOTNULL$,
‘$customer_{e}mail$‘$varchar(20)NOTNULL$,
‘$customer_{n}o$‘$varchar(15)NOTNULL$,
‘$product_{i}d$‘$int(20)NOTNULL$,
‘$customer_{p}ass$‘$varchar(50)NOTNULL$
$)ENGINE = InnoDBDEFAULTCHARSET = latin1$;

– Dumping data for table ‘customer‘

INSERT INTO ‘customer‘ (‘customer$_{n}ame$‘, ‘$customer_{a}ddress$‘,
‘$customer_{e}mail$‘, ‘$customer_{n}o$‘, ‘$product_{i}d$‘, ‘$customer_{p}ass$‘)$VALUES$
$('fz','fasdasdasdsada','adada@gmail.com','12212121212',0,$
$'cf4bc985bb09b19d2f5914adbf8597da')$;

– Table structure for table ‘delivered‘

CREATE TABLE ‘delivered‘ (
‘customer$_{n}ame$‘$varchar(20)NOTNULL$,
‘$customer_{e}mail$‘$varchar(20)NOTNULL$,
‘$customer_{n}o$‘$varchar(15)NOTNULL$,
‘$product_{i}d$‘$int(15)NOTNULL$,
‘$delivery_{d}ate$‘$dateNOTNULL$
$)ENGINE = InnoDBDEFAULTCHARSET = latin1$;

– Dumping data for table ‘delivered‘

INSERT INTO ‘delivered‘ (‘customer$_{n}ame$‘, ‘$customer_{e}mail$‘,
‘$customer_{n}o$‘, ‘$product_{i}d$‘, ‘$delivery_{d}ate$‘)$VALUES$
$('','','',0,'2017-12-28'),$
$('fz','adada@gmail.com','12212121212',6,'2017-12-28'),$
$('','','',0,'2017-12-28'),$
$('fz','adada@gmail.com','12212121212',6,'2017-12-28'),$
$('','','',0,'2017-12-28'),$
$('fz','adada@gmail.com','12212121212',9,'2017-12-28'),$
$('fz','adada@gmail.com','12212121212',10,'2017-12-28')$;

– Table structure for table ‘orders‘
CREATE TABLE ‘orders‘ (
‘order$_{i}d$‘$int(15)NOTNULL$,
‘$customer_{n}ame$‘$varchar(20)NOTNULL$,

‘$order_date$‘$dateNOTNULL$,
‘$customer_email$‘$varchar(20)NOTNULL$,
‘$customer_no$‘$varchar(15)NOTNULL$,
‘$product_id$‘$int(15)NOTNULL$
$)ENGINE = InnoDBDEFAULTCHARSET = latin1$;

– Dumping data for table ‘orders‘

INSERT INTO ‘orders‘ (‘order$_id$‘, ‘$customer_name$‘, ‘$order_date$‘,
‘$customer_email$‘, ‘$customer_no$‘, ‘$product_id$‘)$VALUES$
$(1,' fz',' 2017-12-28',' adada@gmail.com',' 12212121212', 1)$,
$(3,' fz',' 2017-12-28',' adada@gmail.com',' 12212121212', 6)$,
$(4,' fz',' 2017-12-28',' adada@gmail.com',' 12212121212', 10)$,
$(5,' fz',' 2017-12-28',' adada@gmail.com',' 12212121212', 4)$,
$(6,' fz',' 2017-12-28',' adada@gmail.com',' 12212121212', 7)$,
$(7,' fz',' 2017-12-28',' adada@gmail.com',' 12212121212', 7)$;

– Table structure for table ‘product‘
CREATE TABLE ‘product‘ (
‘product$_id$‘$int(15)NOTNULL$,
‘$product_name$‘$varchar(50)NOTNULL$,
‘$product_description$‘$varchar(1000)DEFAULTNULL$,
‘$product_quantity$‘$int(10)NOTNULL$,
‘$product_price$‘$floatNOTNULL$,
‘$supplier_id$‘$int(25)NOTNULL$,
‘$image$‘$varchar(200)NOTNULL$
$)ENGINE = InnoDBDEFAULTCHARSET = latin1$;

– Dumping data for table ‘product‘

INSERT INTO ‘product‘ (‘product$_id$‘, ‘$product_name$‘,
‘$product_description$‘, ‘$product_quantity$‘, ‘$product_price$‘,
‘$supplier_id$‘, ‘$image$‘)$VALUES$
$(1,' UBANTEDigit',' ElectronicMicrometerwithLargeDisplay-Inch/$
$MetricConversion0-1', 25, 58, 11,' 71VLS3YbclL._SL1500.jpg'),$
$(2,' DirectionalControlValv',' PrinceRD522CCAA5A4B1Directional$
$ControlValve, TwoSpool, 4Ways, 3Positions, TandemCenter, CastIron, 3000psi, LeverHandle, 25gpm, In/Out :$
$3/4', 26,$
$200.99, 11,' 81H7wwjsL-L._SL1500.jpg'),$
$(4,' SACAMWireless',' SACAMWireless720PNetworkSecurityCCTVIP$
$CameraNightVisionWiFiWebcamPanTiltHomeSurveillanceAlarmSystemOEMWANSCAM', 4, 25.67, 10,$
$'SACAM-Wireless-720P-Network-Security-CCTV-IP-Camera-Night-Vision-$
$WiFi-Webcam-Pan-Tilt-Home-Surveillance.jpg_640x640.jpg'),$
$(5,' bodythermometer',$
$'BasalThermometerfromFairhavenHealth-$
$Freeshipping, specificallyforBBTchartingpurposes, readsto1/100thofadegreeandfeaturesmemoryrecall.',$
$6, 23.4, 10,' body$
$tharmometer.jpg'),$
$(7,' GlassSlide',$
$'Thisisa25-pieceverynicemicroscopepreparedslidesetofvariousplants, insectsand/oranimaltissues.$
$Theslidesarecover-slippedand$
$preservedincedarwoodoil.Allslidesarecarefullylabe..$
$.AmScope144Pre-CleanedBlankMicroscopeSlides20022x22mmSquareCoverGlass.',$
$7, 13.5, 10,' GlassSlide.jpg'),$
$(8,' Binocular',' OpticsVanquish10x26ReversePorroPrismBinocular....BushnellLegendUltraHDCompactWaterproo$
$(9,' GraduatedCylinders',' ScientificGlassGraduatedCylindermeasuringcylinder10ml25ml50ml100ml....$
$4pcsClearMeasuringPlasticGraduatedCylinderCup10ml/25ml/50ml/100ml....$
$4PIXNORTransparentMeasuringPlasticGraduatedCylinder10ml/25ml/50ml/100ml.', 9, 3.4, 11,' GraduatedCylinde$

(10,′ FlorenceFlask′,
′BOILINGFLASK500mL500mLBOROSILICATEGLASSIrregular....
100mLFlorenceBoilingFlask; Flatbottom; EiscoLabsPremiumBorosilicateGlass;
Narrowneck; BeadedRim.′, 3, 33.6, 11,′ FlorenceFlask.jpg′);

– Table structure for table ‘supplier‘

CREATE TABLE ‘supplier‘ (
‘supplier$_id$‘int(25)NOTNULL,
‘supplier$_name$‘varchar(50)NOTNULL,
‘supplier$_no$‘varchar(15)NOTNULL,
‘supplier$_address$‘varchar(100)NOTNULL
)ENGINE = InnoDBDEFAULTCHARSET = latin1;

−−Dumpingdatafortable‘supplier‘
INSERTINTO‘supplier‘(‘supplier$_id$‘, ‘supplier$_name$‘, ‘supplier$_no$‘,
‘supplier$_address$‘)VALUES
(10,′ Fazley′,′ 01681231269′,′ Dhaka′),
(11,′ Oishy′,′ 016000000′,′ dhaka′);

−−Tablestructurefortable‘user‘

CREATE TABLE ‘user‘ (
‘user$_id$‘int(15)DEFAULTNULL,
‘user$_no$‘int(15)DEFAULTNULL,
‘u$_first_name$‘varchar(10)NOTNULL,
‘u$_last_name$‘varchar(10)NOTNULL,
‘u$_e$mail‘varchar(100)NOTNULL,
‘u$_a$ddress‘varchar(50)DEFAULTNULL,
‘u$_p$ass‘varchar(50)NOTNULL,
‘edit$_p$roduct‘varchar(10)DEFAULTNULL,
‘remove$_p$roduct‘varchar(10)DEFAULTNULL
)ENGINE = InnoDBDEFAULTCHARSET = latin1;

– Dumping data for table ‘user‘
INSERT INTO ‘user‘ (‘user$_id$‘, ‘user$_no$‘, ‘u$_first_name$‘, ‘u$_last_name$‘,
‘u$_e$mail‘, ‘u$_a$ddress‘, ‘u$_p$ass‘, ‘edit$_p$roduct‘, ‘remove$_p$roduct‘)VALUES
(NULL, NULL,′ as′,′ ss′,′ abc@gmail.com′, NULL,
′81dc9bdb52d04dc20036dbd8313ed055′, NULL, NULL),
(NULL, NULL,′ asda′,′ asda′,′ adsas@aa′, NULL,
′7815696ecbf1c96e6894b779456d330e′, NULL, NULL),
(NULL, NULL,′ anika′,′ anan′,′ ass@jo.com′, NULL,
′81dc9bdb52d04dc20036dbd8313ed055′, NULL, NULL),
(NULL, NULL,′ fa′,′ aa′,′ fasf@gmail.com′, NULL,
′81dc9bdb52d04dc20036dbd8313ed055′, NULL, NULL),
(NULL, NULL,′ Fazley′,′ Rabbi′,′ fazleybiswas143@gmail.com′, NULL,
′a60c8f207a31b7c56fc100f7b3fe305a′, NULL, NULL);

– Indexes for dumped tables
– Indexes for table ‘customer‘
ALTER TABLE ‘customer‘
ADD PRIMARY KEY (‘customer$_e$mail‘);

−−Indexesfortable‘orders‘ALTERTABLE‘orders‘
ADDPRIMARYKEY(‘order$_id$‘);
−−Indexesfortable‘product‘
ALTERTABLE‘product‘
ADDPRIMARYKEY(‘product$_id$‘),

$ADDKEY$‘$supplier_id$‘(‘$supplier_id$‘),
$ADDKEY$‘$product_id$‘(‘$product_id$‘);
$--Indexesfortable$‘$supplier$‘
$ALTERTABLE$‘$supplier$‘
$ADDPRIMARYKEY$(‘$supplier_id$‘)$USINGBTREE$,
$ADDKEY$‘$supplier_id$‘(‘$supplier_id$‘);

$--Indexesfortable$‘$user$‘
$ALTERTABLE$‘$user$‘
$ADDPRIMARYKEY$(‘u_email‘);
$--AUTO_INCREMENTfordumpedtables$
$--AUTO_INCREMENTfortable$‘$orders$‘
$ALTERTABLE$‘$orders$‘
$MODIFY$‘$order_id$‘$int(15)NOTNULLAUTO_INCREMENT, AUTO_INCREMENT = 9$;
$--Constraintsfordumpedtables$
$--Constraintsfortable$‘$product$‘
$ALTERTABLE$‘$product$‘
$ADDCONSTRAINT$‘$product_ibfk_1$‘$FOREIGNKEY$(‘$supplier_id$‘)$REFERENCES$
‘$supplier$‘(‘$supplier_id$‘);
$COMMIT$;

5.2 Query

Search query: querry=”select * from product where $product_name LIKE'$
For customer Login: querry=”select * from product”;
For deliver product: *result = $mysqli_query$(db,”select * from orders where $order_id =$'id'”);
* $mysqli_query$(db,”INSERT INTO delivered
(customer$_name, customer_email, customer_no, product_id, delivery_date)VALUES$('customer$_name$',
'customer$_email$','customer$_no$',
'$product_id', NOW()$)”);

$Fororderproduct : mysqli_query$(connection,”INSERT INTO orders
(order$_id, customer_name, order_date, customer_email, customer_no, product_id)VALUES$('order$_id$','Name',
NOW(), '$Email$',
'Phone', 'pro_id')”);
$Foreditproduct : result = mysqli_query$(db, ”SELECT * FROM product where product$_id$ =id”);
For edit supplier: result = $mysqli_query$(db, ”SELECT * FROM supplier where supplier$_id$ =id”);

For edit supplier button:
result = $mysqli_query$(db, ”SELECT * FROM supplier”); For edit product button: result =
$mysqli_query$(db, ”SELECT * FROM product”);
For order product button:
result = $mysqli_query$(db, ”SELECT * FROM orders”); For deliver product button: result =
$mysqli_query$(db, ”SELECT * FROM delivered”);

6 Screenshots

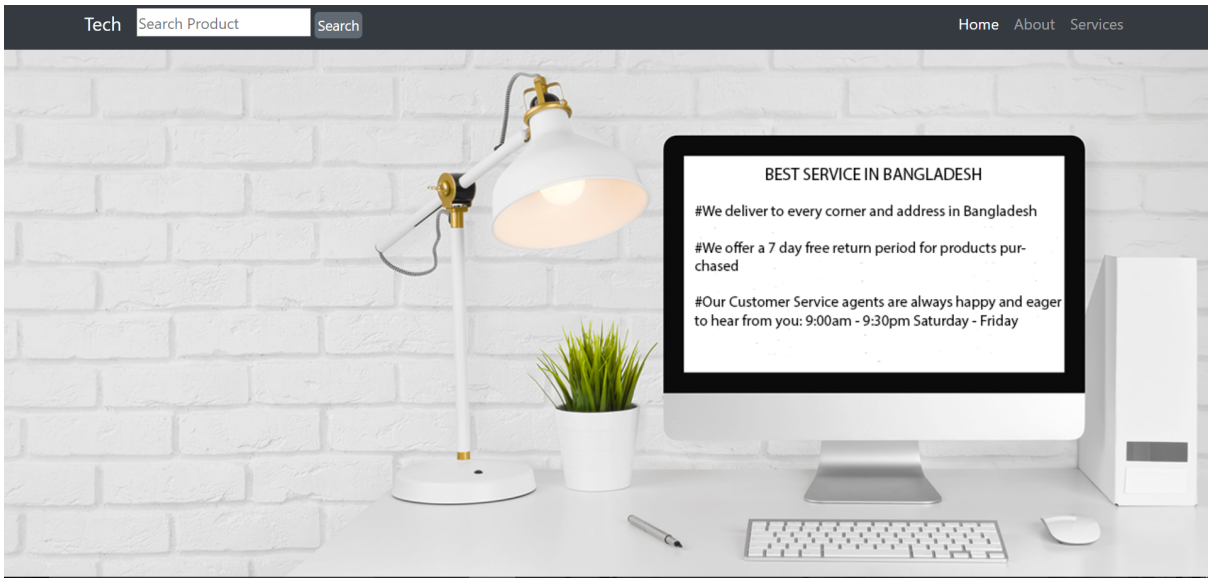

Figure 3: Slider

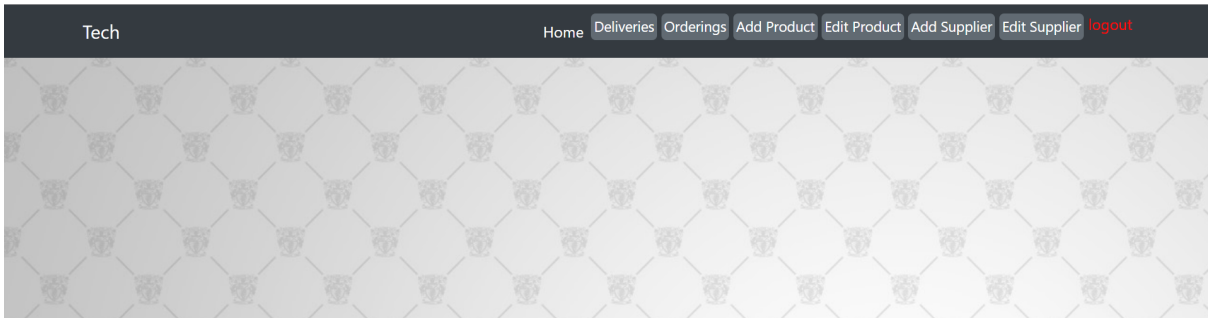

Figure 4: Menu

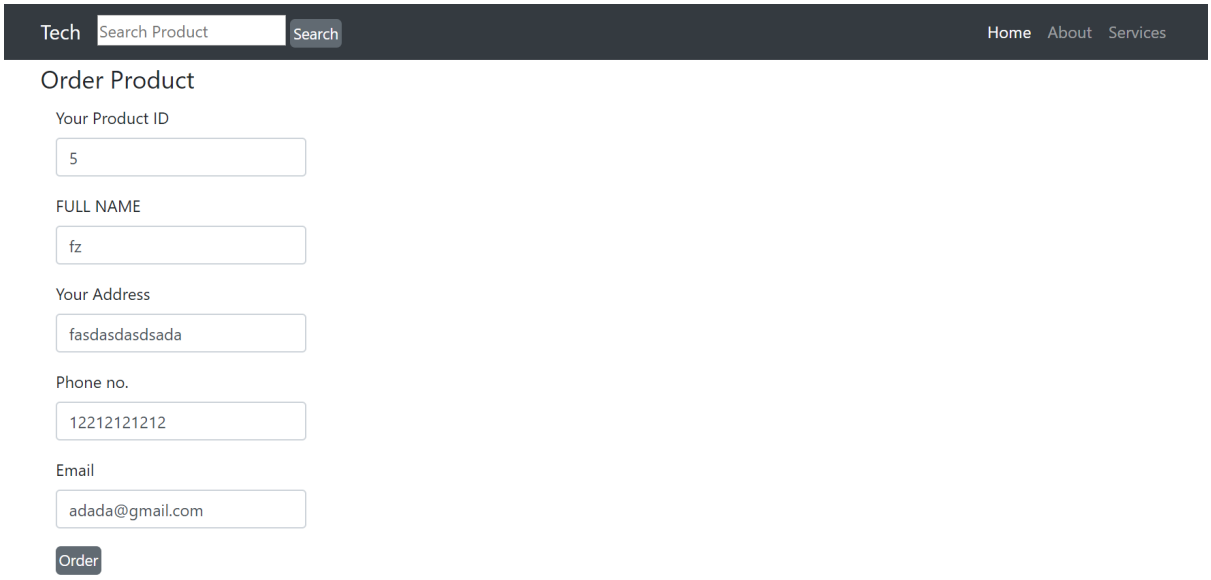

Figure 5: Order

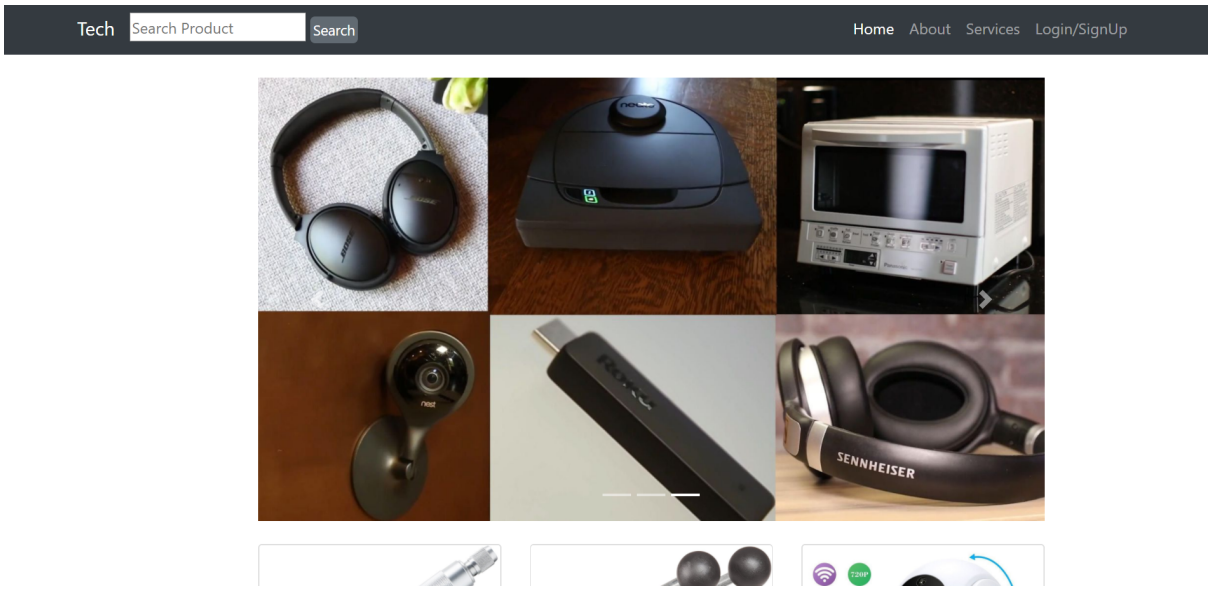

Figure 6: Products

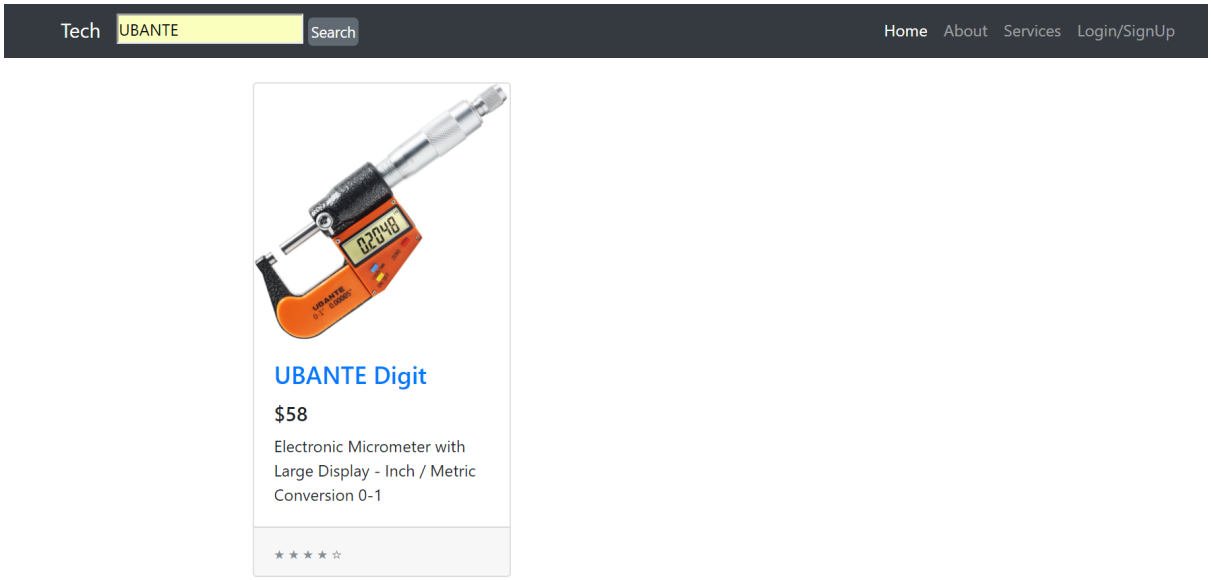

Figure 7: A product

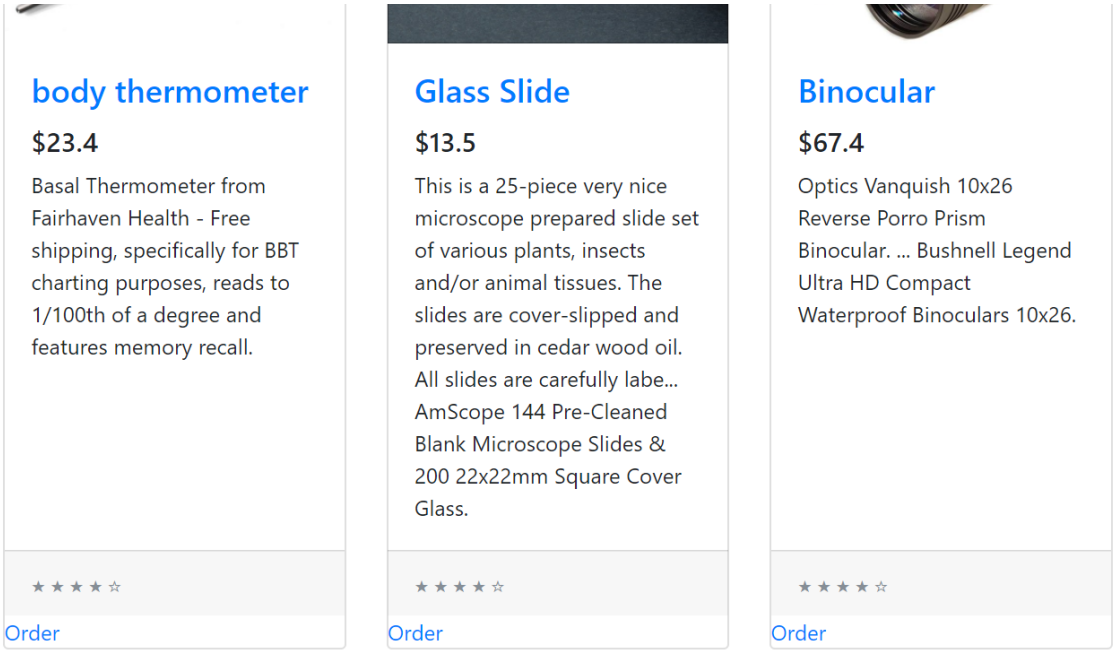

Figure 8: Pricing Table

7 Conclusions

Inventory management has to do with keeping accurate records of goods that are ready for shipment. This often means having enough stock of goods to the inventory totals as well as subtracting the most recent shipments of finished goods to buyers. When the company has a return policy in place, there is usually a sub-category contained in the finished goods inventory to account for any returned goods that are reclassified or second grade quality. Accurately maintaining figures on the finished goods inventory makes it possible to quickly convey information to sales personnel as to what is available and ready for shipment at any given time by buyer. Inventory management is important for keeping costs down, while meeting regulation. Supply and demand is a delicate balance, and inventory management hopes to ensure that the balance is undisturbed. Highly trained Inventory management and high-quality software will help make Inventory management a success. The ROI of Inventory management will be seen in the forms of increased revenue and profits, positive employee atmosphere, and on overall increase of customer satisfaction.