CPS630 - Web Applications

Project- (iter-I & iter-II)

Team 26

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Name	Job	Contribution
Zachary Risling	Creating initial setup including all the pages Drag and drop Implementation using Javascript Used Javascript to locally store database	33.33%
Adnan Rehman	Creating DB Maintain page Implementing PHPMyAdmin, MySQL Creating ER diagram / MVC pattern	33.33%
Hyebin Yoon	Writing Technical Report Integrate the frontend with PHP/XAMPP Implementing map/ checkout feature	33.33%

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Project Descriptions

Project Objectives

The main objective of this web application was to allow users to purchase different kitchen appliances through our website using a secure checkout payment method and to receive specific times and routes for their product delivery. We were able to accomplish such development by implementing the knowledge we learned in the CPS 630 Web application course including HTML, CSS, JavaScript, JSON, PHP, and MySql.

Languages and Tools

Our group has mainly used HTML5, PHP, SQL, and Javascript for web development. However, we have decided to use Bootstrap as our frontend framework because we came to a conclusion that using the Boostrap UI framework will substantially decrease cross-browser bugs, easy customization, lightweight, responsive structure/style, and provide an awesome grid system.

Web page design and layout

Page Design

Index: will show the home page and menu bar on the top. The menu bar is separated and stored in the header.php. The index.php will include header.php and will display appropriate PHP files for the body and footer.

- index.php

- header.php

- styles.css

- connection.php

    - connects to database

Home: default welcome home page.

- home.php

- bootstyles.css

- scripts.js

About us: about us page

- aboutus.php

- bootstyles2.css

Contact us: customers can send us an email with their full name and messages to contact us.

- contactus.php

- bootstyle2.css

- scripts2.js

Services: displays kitchen end appliances, users can drag the items with the correct

quantity and drop to the shopping cart icon on the top right side

- services.php

- services.js

- style.css

- insert-order.php

Shopping Cart: displays items customers have added to their cart and customers can

click on the check out button to pay and see the delivery information.

- cart.php

- cart.js

- style.css

- get-items.php

Checkout Page: this page will be only accessible to customers who want to check out

and includes checkoutform.php which has the map feature.

- checkout.php

- checkout.js

- checkoutform.php

- checkoutform.js

- style.css

SignUp: simple signup page. Customers need to sign up in order to sign in and use the website.

- signup.php

- signup.js

- styles.css

- insert-user.php

SignIn: simple sign-in page.

- signin.php

- signin.js

- styles.css

- get-user-email.php

- get-user-pass.php

db Maintain: a drop-down list that indicates operations on the database including "Insert", "Delete", "Select", and "Update"

- List whatever file you used

UI Design

Our team used the most widely used frontend framework, Bootstrap, to enhance the visualization of the website. We also used the colors red and orange to highlight the key buttons. For example, in Figure 1, create an account, clear data, and sign-in buttons are designed like the following to draw attention and easily locate the necessary buttons.

We've also tried to center all the components on the website so users can access our website through their mobile devices without having to zoom in or move their screen, shown in Figure 2.

Finally, we emphasized the specific input text field with the color blue to directly tell the users which information is required. For example, in Figure1, only the username and password are colored in blue to indicate that users must input those two fields in order to create an account and to sign in to our system.

Figure 1: Sign-Up and Sign-In page
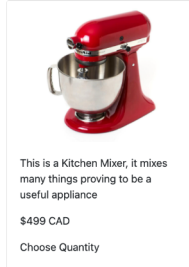
Figure 2: Service page

Structure of Database and Implementation of MySQL

Mysql Commands

get-items.php

```sql
SELECT item_id, item_name, price, made_in, img_src, item_desc FROM item
```

get-user-email.php

```sql
SELECT name, email FROM user;
```

get-user-pass.php

```sql
SELECT user_id, name, password, email FROM user
```

insert-order.php

```sql
INSERT INTO trip (source, dest, truck_id) VALUES ('$source','$destination', '$truck_id')
```

insert-user.php

```sql
INSERT INTO user (name, email, password) VALUES ('$name', '$email', '$password')
```

ER Diagram

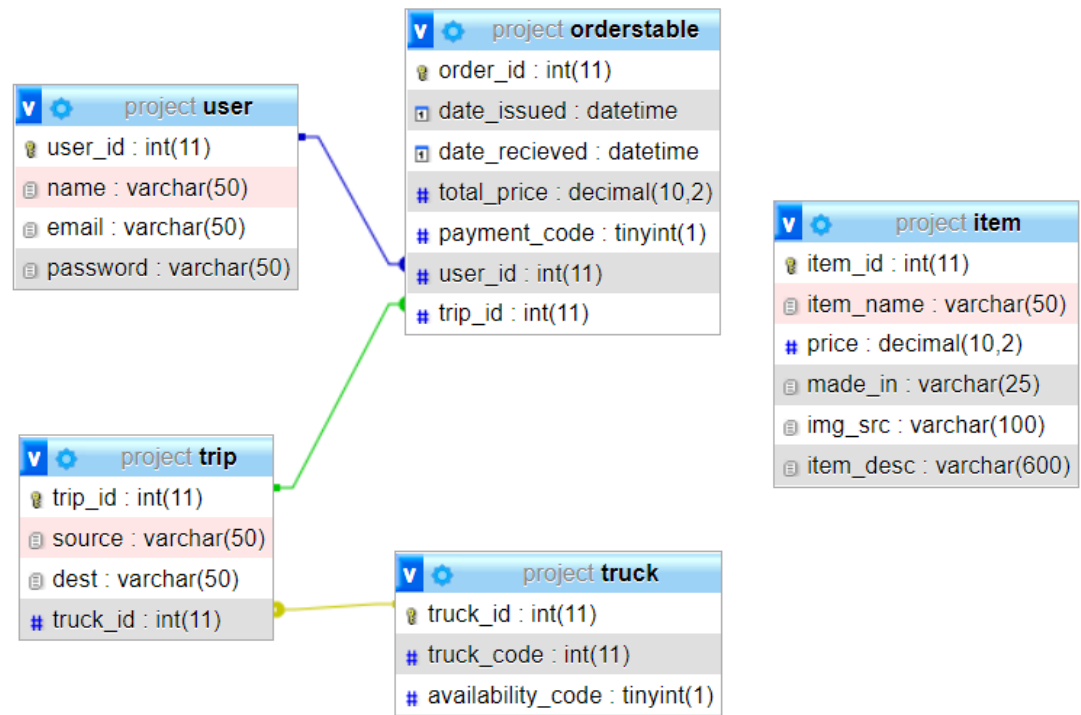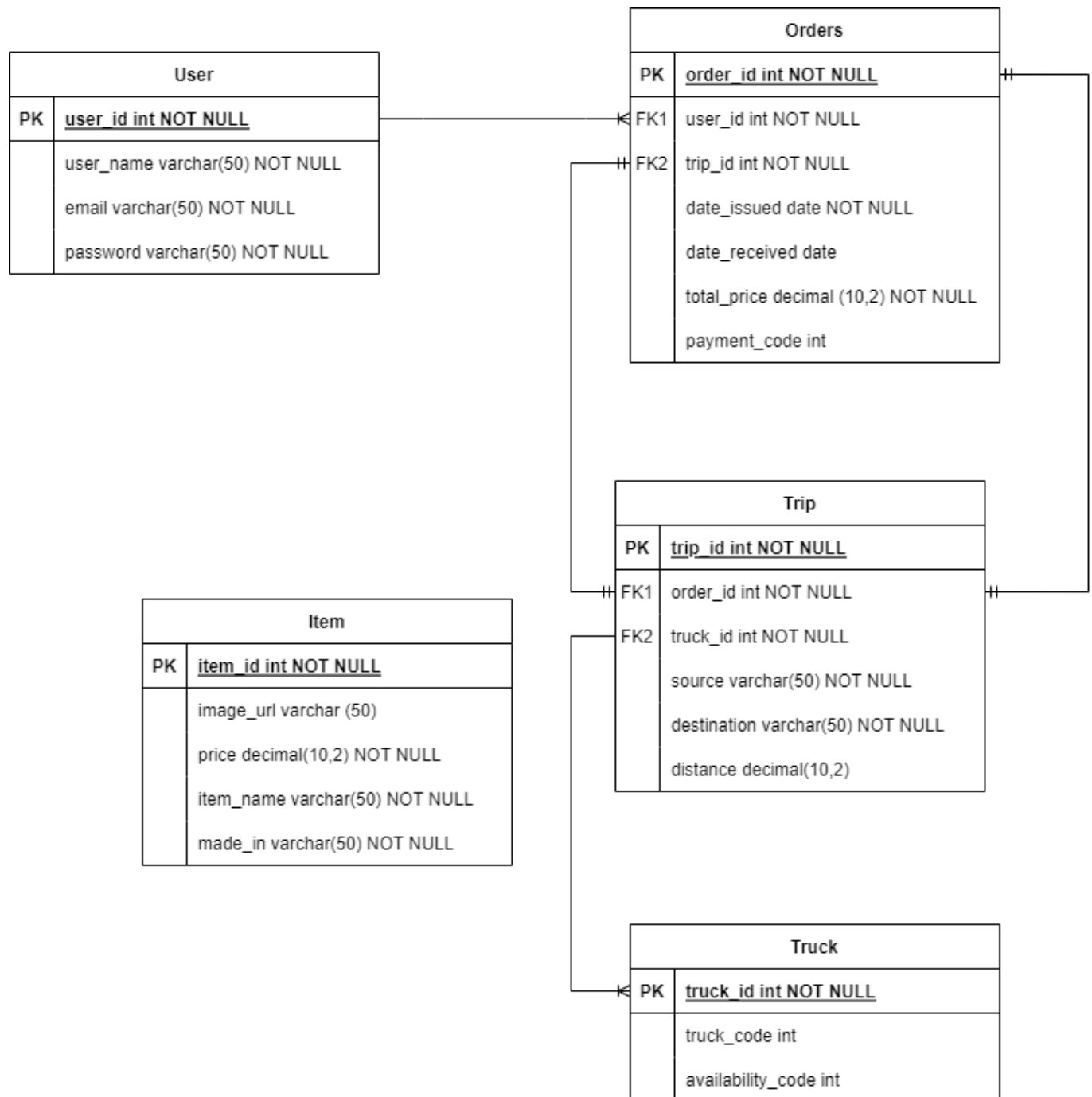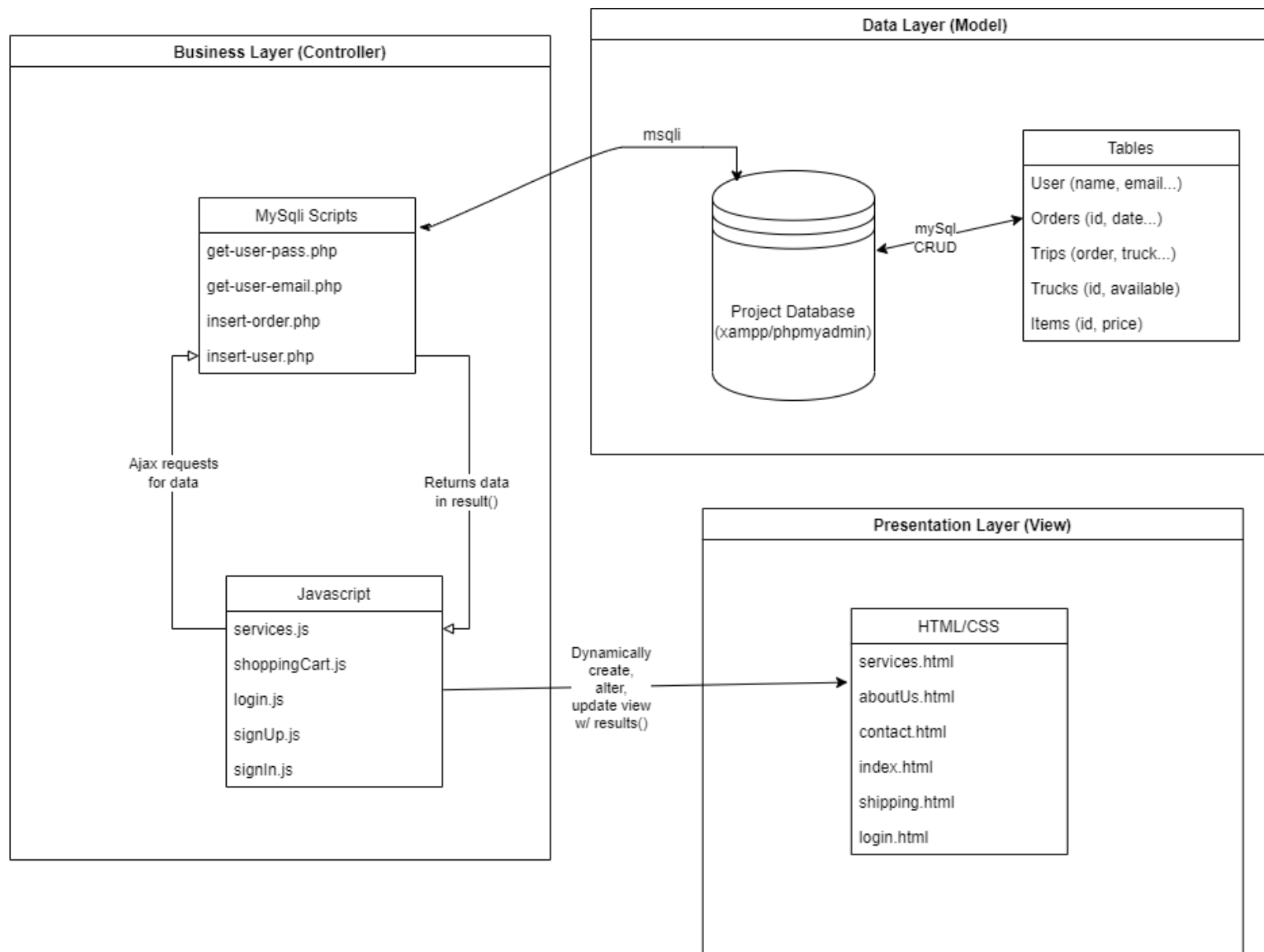Figure 3: MyPHPAdmin ER database diagram

Figure 3: manually made ER diagram

MVC Diagram

Figure 4: manually made MVC diagram