D0018E Report

Lorentz Kinde, 940703-6350*
Anton Tiberg, 960725-4654†
Luleå Tekniska Universitet, 971 87 Luleå, Sverige

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*lorkin-4@student.ltu.se
†anttib-5@student.ltu.se

1 Project background

In this project a e-commerce website for a office supply company will be developed. The webpage is going to be written in php and linked with a SQL database.
This report will showcase several tools used to design the webpage as well as give insight to how it's built and implemented.

2 User cases

User case: 1

Actor	System user
Precondition	The shopping cart is empty.
Postcondition	The shopping cart contains the correct quantity of the selected products.
Main path (M)	1. User enters website 2. User navigates using categories to wanted product 3. User clicks product "buy" button 4. Product item is added to user virtual shoppning cart

User case: 2

Actor	System user
Precondition	A product has been ordered.
Postcondition	A review of ordered product is posted on the website
Main path (M)	1. User navigates to product webpage 2. User writes a comment about said product 3. User clicks "submit review" 4. Review is then added to database and shown on the product webpage

User case: 3

Actor	System user
Precondition	A user has created an account on the webpage and has ordered some products
Postcondition	Webpage displays users previously made orders
Main path (M)	1. User enters and logs in to the webpage 2. User navigates to account overview 3. Webpage displays along other things all previously made orders

User case: 4

Actor	System user
Precondition	The user has administratory rights on his account
Postcondition	A new product has been added to the product list
Main path (M)	1. Admin navigates to product page 2. Admin openens the "Add new product" page 3. Admin enters required information and clicks 'post product' 4. Product becomes listed on the webpage

User case: 5

Actor	System user
Precondition	Trolls exists online and write unethically mean comments on reviews
Postcondition	The troll reign ends once and for all as the review is permanently destroyed
Main path (M)	1. Admin navigates to product page where unethical comments are being posted 2. Admin finds targeted review 3. Admin clicks 'Remove review'and gets promted with a confirmation dialog 4. The review is banished from the product page and database and all becomes well in the world

3 Method and tools

MySQL Workbench was used for creating the database schema and setting up the database. For developing the front- and back end web-site ordinary text editors (Kylie, N++, Vim) was used to code in HTML and PHP.

4 Backlog

Sprint 1

During sprint 1 we aim to have the basic structure of the website complete to make further development easily accessible.

Objectives

Front end: Coded in HTML5, Back end: node.js.

Server is hosted on the utbweb website.

What needs to get done:

- Needs setting up on server (High prio, Total time estimated: 4hrs)
  - Setup basic html and css for all pages (Time estimated: 2hrs)
  - Connectivity between all parties (Time estimated: 2hrs)
- Setup and get acquainted with the database (High prio, Time estimated: 2hrs)
- (If there is extra time) Plan sprint 2 and sprint 3 (Low prio, Time estimated: 2hrs)

Demo:

- Query to and from database (Requirements: HTML, connectivity between elements and a working database)

Figure 1: The point to point version of the project backlog

SPRINT 1:				
	To do	Under Progress	Demo	Completed
			Basic website	
			Develop PHP	
			Database Schedule	
			Database Setup	
	Plan sprint 2			

Figure 2: The table version of the project backlog

As we can already see, the original thought and the actual path differentiates since we decided to not use node.js but instead use php to write the back end of the server.

5 Database schema

Every user gets a shopping cart, every shopping cart can hold products depending on quantity in storage (represented in 'Products.quantity'). If quantity exists, user can order the products in the shopping cart, creating an order. The shopping cart gets picked and placed into a package. When the package is complete, the order id and package id is correct, it's shipped and logged in the shipment table.

Every user can leave one review per product. Reveiws for a product cannot exist without a product.

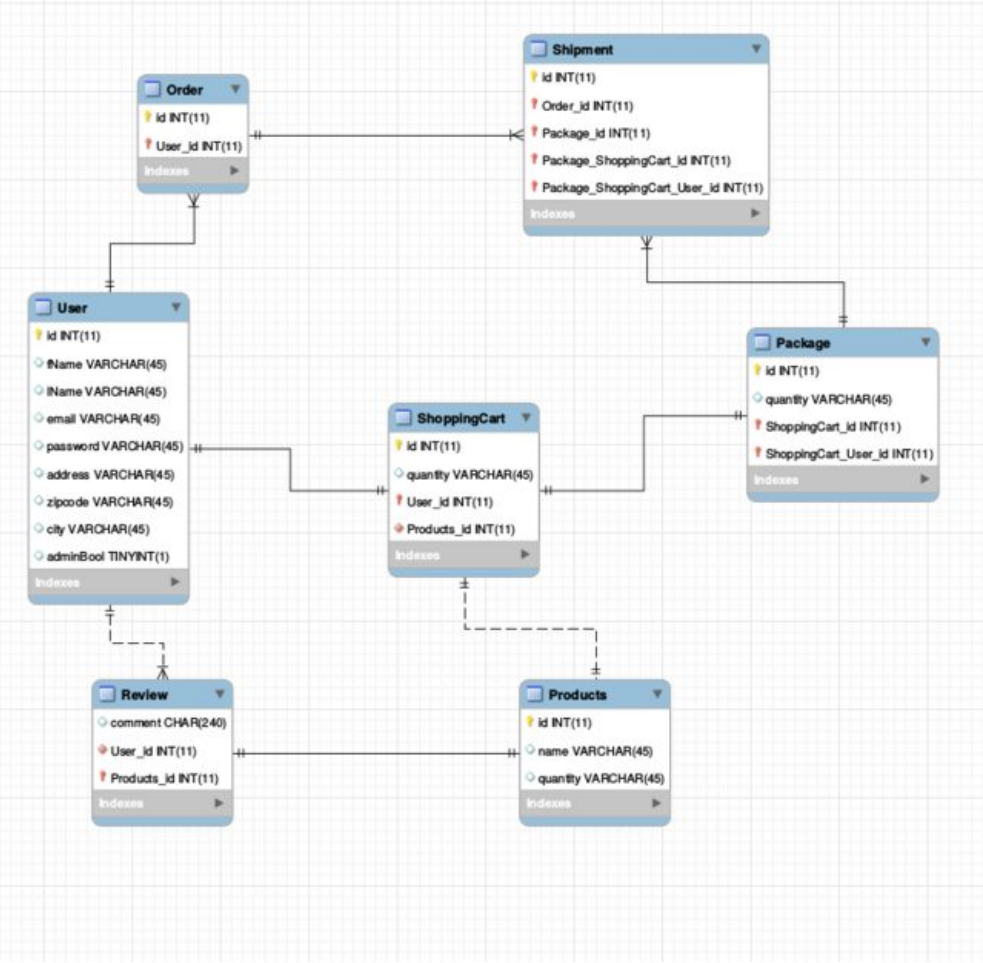

Figure 3: The database schema

6 Links

Link to git repository

7 Test case specifications

The website and database will be tested by using the implemented features in the site and then by looking in MySQLworkbench to see how it worked out.

8 Limitations and improvements

For the time being the website is very basic and could be improved if there's time and need for it. More functions like shopping cart, retrieving products from database and logging in will be added in sprint 2 and 3.