Project Report

Toys for Tots

Online toy store

CS 6314.002

Web Programming Languages

Fall 2015

The University of Texas at Dallas

Submitted by –

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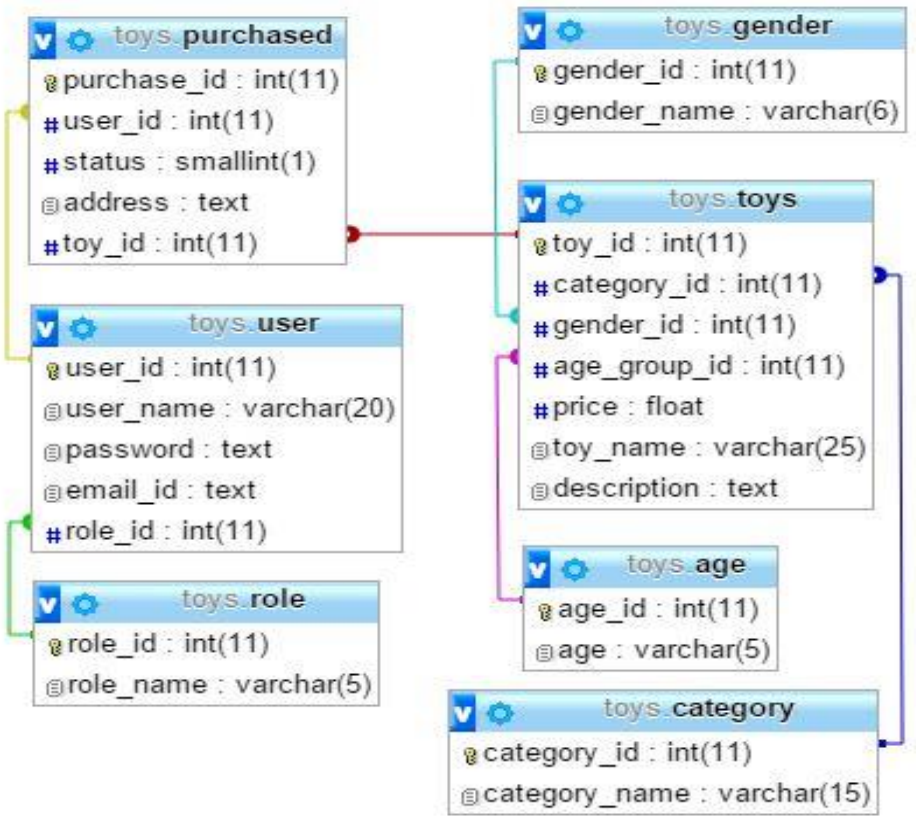
Project Description:

Toysfortots is a web application for toy store. It has toys classified based on categories, age and gender. It has almost all the functionalities that a modern day e-commerce website can have. Few of the many available functions are searching for toys, Cart, User authentication, new user registration, adding new toys, client side as well as server side form validation, tracking of session/cookies.

The only assumptions we made in this project are:

1. The toys will be indefinitely available for users until they are deleted by admin.
2. The email ID given by user while registering is valid as it cannot be checked on local server. It can only be verified if the application is hosted on web server.

Database design:



```
CREATE TABLE `age` ( `age_id` int(11), `age` text);

CREATE TABLE `category` (`category_id` int(11), `category_name` varchar(25));

CREATE TABLE `gender` (`gender_id` int(11), `gender_name` varchar(6));

CREATE TABLE `purchased` (`purchase_id` int(11), `user_id` int(11), `status` smallint(1) DEFAULT '0', `address` text, `toy_id` int(11));

CREATE TABLE `role` (`role_id` int(11), `role_name` varchar(5));

CREATE TABLE `toys` (`toy_id` int(11), `category_id` int(11), `gender_id` int(11), `age_group_id` int(11), `price` float, `toy_name` text, `description` text, `image_url` text, `deleted` tinyint(4) DEFAULT '0');

CREATE TABLE `user` (`user_id` int(11), `user_name` varchar(20), `password` text, `email_id` text, `role_id` int(11) DEFAULT '2');

ALTER TABLE `age` ADD PRIMARY KEY (`age_id`);

ALTER TABLE `category` ADD PRIMARY KEY (`category_id`);

ALTER TABLE `gender` ADD PRIMARY KEY (`gender_id`);

ALTER TABLE `purchased` ADD PRIMARY KEY (`purchase_id`), ADD KEY `user_id` (`user_id`), ADD KEY `toy_id` (`toy_id`);

ALTER TABLE `role` ADD PRIMARY KEY (`role_id`);

ALTER TABLE `toys` ADD PRIMARY KEY (`toy_id`), ADD KEY `category_id` (`category_id`), ADD KEY `gender_id` (`gender_id`), ADD KEY `age_group_id` (`age_group_id`);

ALTER TABLE `user` ADD PRIMARY KEY (`user_id`), ADD KEY `role_id` (`role_id`);

ALTER TABLE `purchased` MODIFY `purchase_id` int(11) NOT NULL AUTO_INCREMENT;

ALTER TABLE `toys` MODIFY `toy_id` int(11) NOT NULL AUTO_INCREMENT;

ALTER TABLE `user` MODIFY `user_id` int(11) NOT NULL AUTO_INCREMENT;
```

ALTER TABLE `purchased`

ADD CONSTRAINT FOREIGN KEY (`user_id`) REFERENCES `user` (`user_id`) ON DELETE CASCADE ON UPDATE CASCADE,

ADD CONSTRAINT FOREIGN KEY (`toy_id`) REFERENCES `toys` (`toy_id`) ON DELETE CASCADE ON UPDATE CASCADE;

ALTER TABLE `toys`

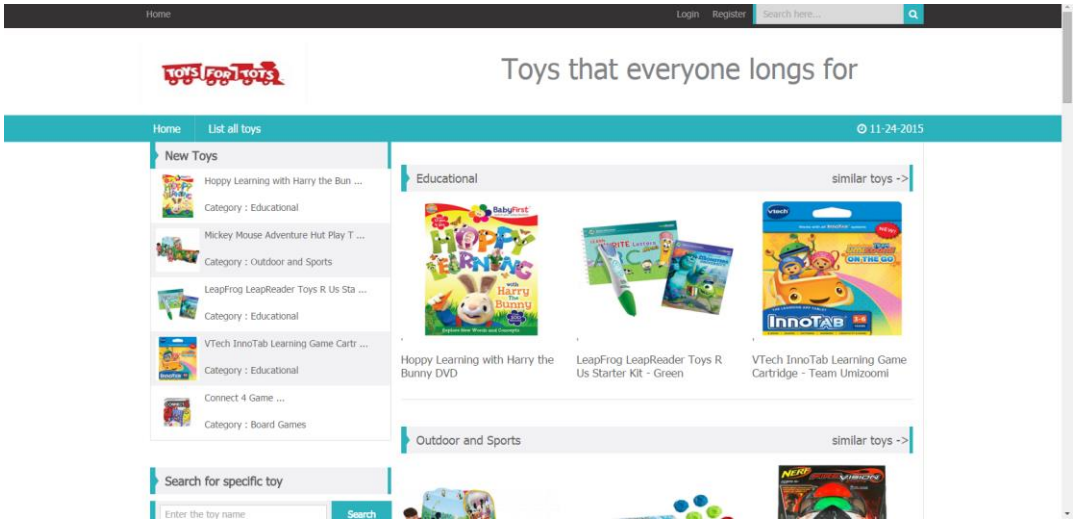
ADD CONSTRAINT FOREIGN KEY (`gender_id`) REFERENCES `gender` (`gender_id`) ON DELETE CASCADE ON UPDATE CASCADE,

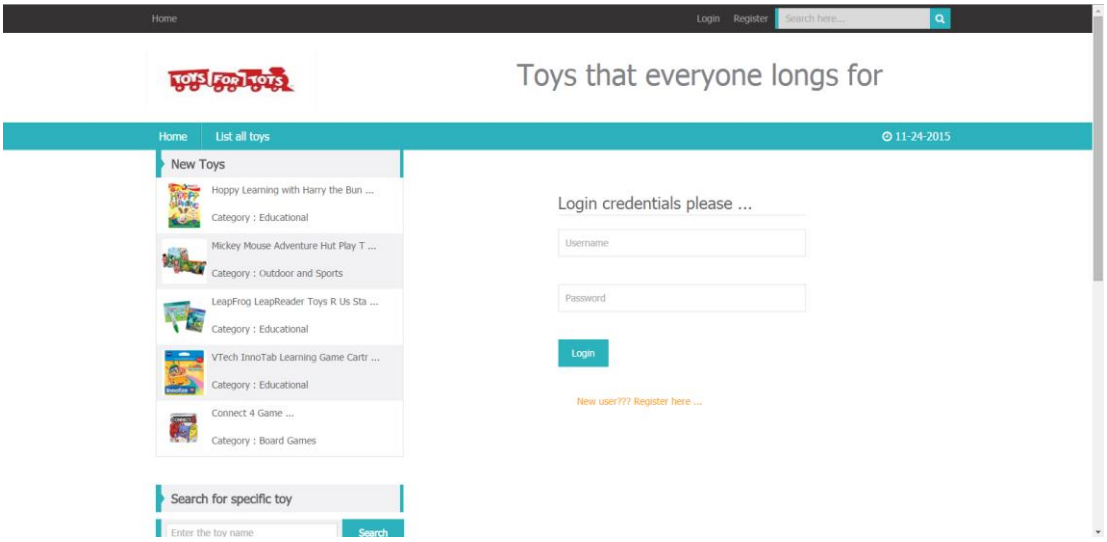
ADD CONSTRAINT FOREIGN KEY (`category_id`) REFERENCES `category` (`category_id`) ON DELETE CASCADE ON UPDATE CASCADE,

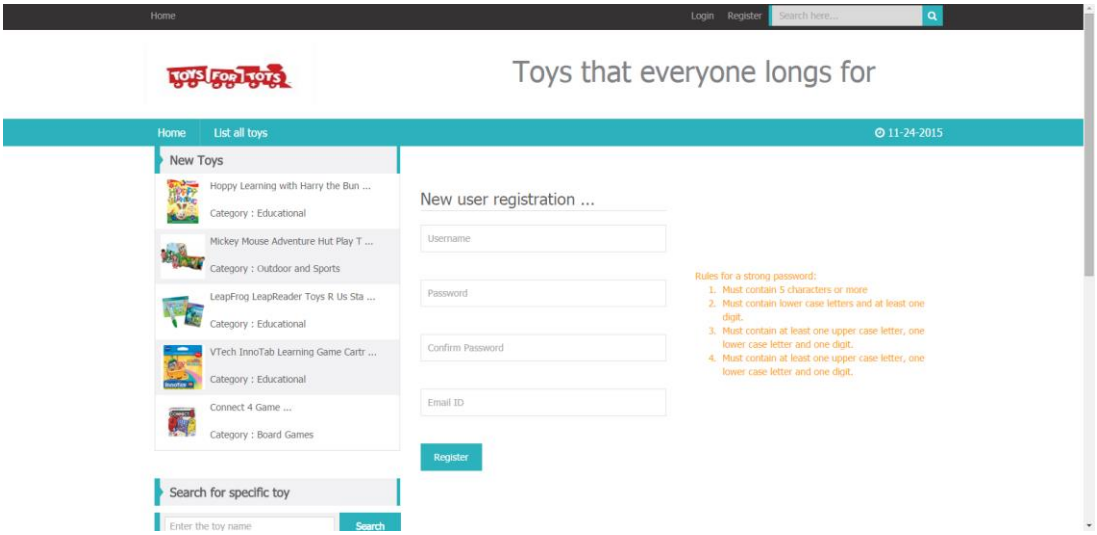
ADD CONSTRAINT FOREIGN KEY (`age_group_id`) REFERENCES `age` (`age_id`) ON DELETE CASCADE ON UPDATE CASCADE;

ALTER TABLE `user` ADD CONSTRAINT FOREIGN KEY (`role_id`) REFERENCES `role` (`role_id`) ON DELETE CASCADE ON UPDATE CASCADE;

Screenshots:




Home
Login
Register
Search here...
Toys that everyone longs for
Home
List all toys
11-24-2015
New Toys
Hoppy Learning with Harry the Bun ...
Category : Educational
Mickey Mouse Adventure Hut Play T ...
Category : Outdoor and Sports
LeapFrog LeapReader Toys R Us Sta ...
Category : Educational
VTech InnoTab Learning Game Cartr ...
Category : Educational
Connect 4 Game ...
Category : Board Games
Search for specific toy
Enter the toy name
Search
Login credentials please ...
Username
Password
Login
New user??? Register here ...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Category : Educational
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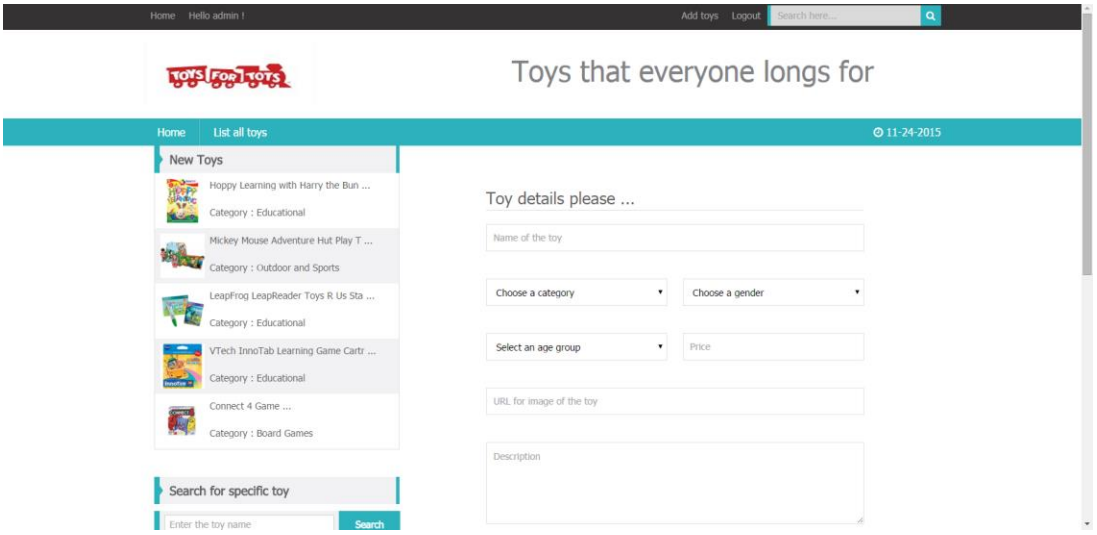
Category : Board Games
Search for specific toy
Enter the toy name
Search
New user registration ...
Username
Password
Confirm Password
Email ID
Register
Rules for a strong password:
1. Must contain 5 characters or more
2. Must contain lower case letters and at least one digit.
3. Must contain at least one upper case letter, one lower case letter and one digit.
4. Must contain at least one upper case letter, one lower case letter and one digit.


Home
Hello admin !
Add toys
Logout
Search here...
Toys that everyone longs for
Home
List all toys
11-24-2015
New Toys
Hoppy Learning with Harry the Bun ...
Category : Educational
Mickey Mouse Adventure Hut Play T ...
Category : Outdoor and Sports
LeapFrog LeapReader Toys R Us Sta ...
Category : Educational
VTech InnoTab Learning Game Cartr ...
Category : Educational
Connect 4 Game ...
Category : Board Games
Search for specific toy
Enter the toy name
Search
Toy details please ...
Name of the toy
Choose a category
Choose a gender
Select an age group
Price
URL for image of the toy
Description

Home Hello admin ! Add toys Logout Search here...

TOYS FOR TOYS

Toys that everyone longs for

Home List all toys 11-24-2015

New Toys

- Hoppy Learning with Harry the Bun ... Category : Educational
- Mickey Mouse Adventure Hut Play T ... Category : Outdoor and Sports
- LeapFrog LeapReader Toys R Us Sta ... Category : Educational
- VTech InnoTab Learning Game Cartr ... Category : Educational
- Connect 4 Game ... Category : Board Games

Search for specific toy

Enter the toy name Search

Hoppy Learning with Harry the Bunny DVD

Age Group	: Above 7 Years
Gender	: Both
Category	: Educational
Price	: $4.99

Update Delete

This item can be shipped to the entire United States including Alaska, Hawaii, and all U.S. territories including Puerto Rico. This item can also be shipped to APO/FPO addresses and to P.O. Boxes in all 50 states

Home Hello sujit ! My Cart Orders history Logout Search here...

TOYS FOR TOYS

Toys that everyone longs for

Home List all toys 11-24-2015

New Toys

- Hoppy Learning with Harry the Bun ... Category : Educational
- Mickey Mouse Adventure Hut Play T ... Category : Outdoor and Sports
- LeapFrog LeapReader Toys R Us Sta ... Category : Educational
- VTech InnoTab Learning Game Cartr ... Category : Educational
- Connect 4 Game ... Category : Board Games

Search for specific toy

Enter the toy name Search

Hoppy Learning with Harry the Bunny DVD

Age Group	: Above 7 Years
Gender	: Both
Category	: Educational
Price	: $4.99

Add to Cart

This item can be shipped to the entire United States including Alaska, Hawaii, and all U.S. territories including Puerto Rico. This item can also be shipped to APO/FPO addresses and to P.O. Boxes in all 50 states

Home Hello sujit ! My Cart Orders history Logout Search here...

TOYS FOR TOYS

Toys that everyone longs for

Home List all toys 11-24-2015

New Toys

- Hoppy Learning with Harry the Bun ... Category : Educational
- Mickey Mouse Adventure Hut Play T ... Category : Outdoor and Sports
- LeapFrog LeapReader Toys R Us Sta ... Category : Educational
- VTech InnoTab Learning Game Cartr ... Category : Educational
- Connect 4 Game ... Category : Board Games

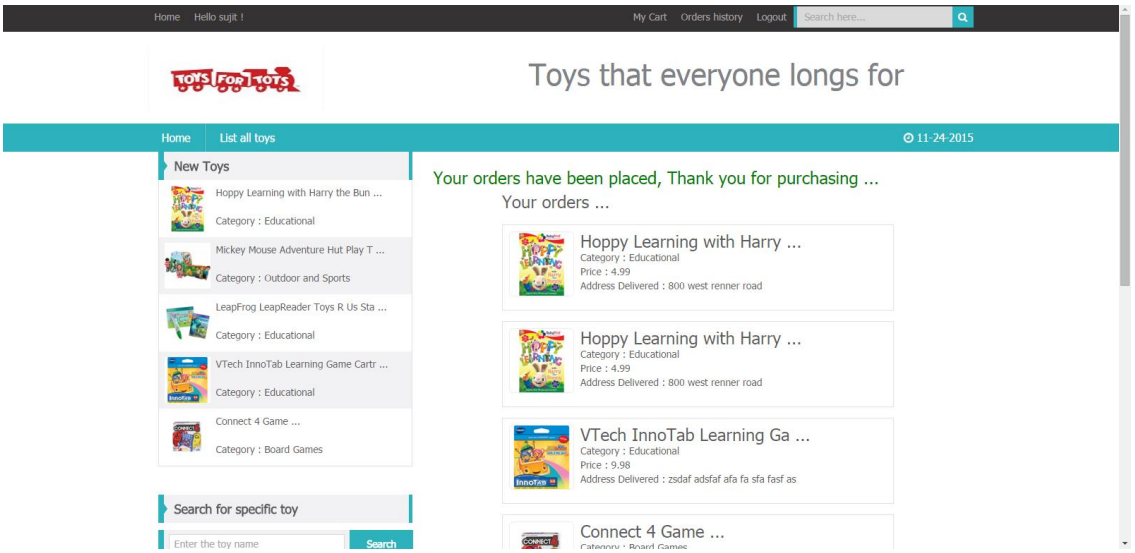
Search for specific toy

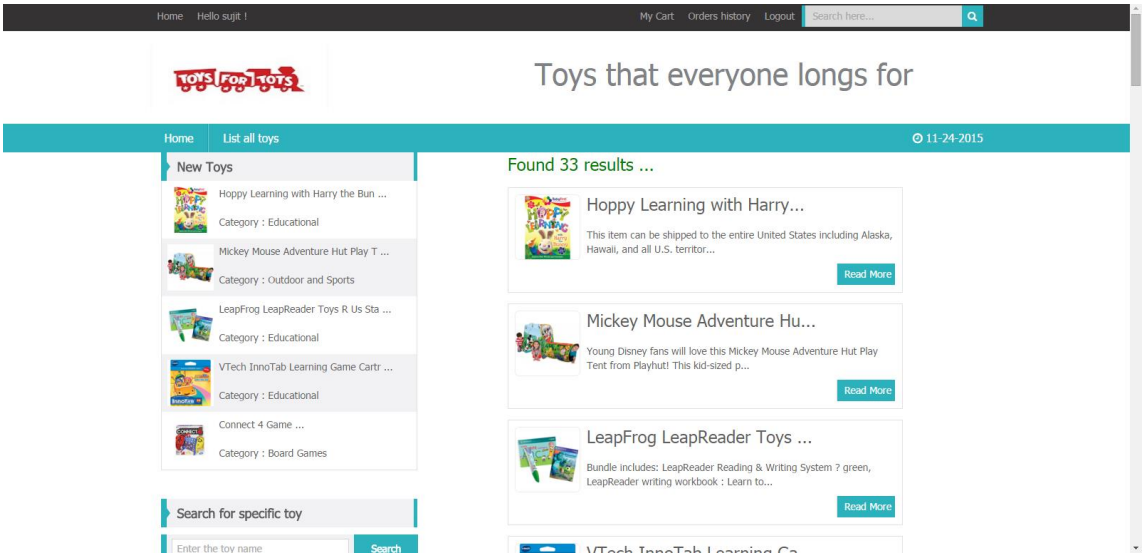
Enter the toy name Search

Total price : $ 18.97(2 items) Check Out

VTech InnoTab Learning Ga ...
Category : Educational
Price : 9.98
Remove from cart

Connect 4 Game ...
Category : Board Games
Price : 8.99
Remove from cart





Languages/frameworks used:

Frontend: HTML, CSS

Backend: MySQL, XAMPP

Client side scripting: JavaScript, Ajax, JQuery

Server side scripting: PHP

Frameworks: Bootstrap (HTML)

Work division:

Database-

Abhimanyu: Design, ER model

Varun: ER model to relational model

Sujit: Implemented the relational model in MySQL and wrote queries for searching

Client side Scripting-

Abhimanyu: Form validation for adding a new toy

Varun: Form validation for user login

Sujit: Form validation for new user registration

Server side Scripting-

Abhimanyu: connections with database, searching algorithm

Varun: Business logics for displaying results from database

Sujit: Session tracking, Handling cookies, User authentication

Front end-

Abhimanyu: All the forms

Varun: Header, Sidebar and footer

Sujit: Homepage, Search results, Cart, Orders history