

Ratelt-OnlineProduct Review

—Web Programming Languages (CS6314.002)

Description

Onlineproductreviewwebapplicationbuilttoserveasacentralizedrepositoryforproduct information and their reviews. The application's user interface was built using bootstrap along with jQueryfora seamless user experience. The webapplication was built with smallest components which serve a single functionality to maintain modularity of code. The client made requests to a PHPs erverusing Ajax to retrieve data from a MySqlserver. We have implemented the required core functionality as mentioned below:

I. Login&Registration

Insteadofmd5andlegacyhashingtechniques,wehaveusedPassword_BCRYPT hashing techniqueforencryptingpassword.WehaveincludedPASSWORD_HASH methodfor implementingtheabovealgorithm.Also,wemadesurethatthe passwordisstrongenough forregisteringtheuser.

II. NavigationHeader

Afixedheaderavailableineverypageoftheapplicationwithlinkstohomepage, categories page, clickablesubcategorylistinadropdown, searchfield and login option.

III. HomePage

Acarouselwhichdisplayedthetopproductsvotedbydifferentusersbasedonthe product's averagerating. Popular categories window which show cased the categories with the most review sprovided by users.

IV. SearchFunctionality

Ahelpfulsearchfunctionalitytofindproductsbasedontheirti leandprovide relevant filterswhichcanbeappliedtothequeriedproducts.

V. CategoryandSubcategoryPage

Listofcategoriesandsubcategoriesdisplayedinauserfriendlymannerwith relevant imagesaspartoftheirdiv.lfanadminisloggedin,edit,deleteandadd functionalitiesare presentedformanagingcategoriesandsubcategories.

VI. ProductListPage

Listofproductsdisplayedforaparticular categoryand subcategoryalong with pagination functionality. To the left side of the page, filters on brandand features are available to find relative products. When administ logged in, edit, deleted and add functionalities are presented to manage products.

VII. WishList

Apersonalwishlistforuserstostoreproductsoftheirlikinginacentralizedplace forfuture references.

VIII. ProductPage

Hoststhedetailsofproductssuchastotalreviews, averagerating, product description, productti leandprice of the product. Below the product, alist of reviews are available for reference to users. If a user is logged in, he can add the product to his wish list and write are view for the same. User 's review for that product is listed at the top with update and delete options available for that owner alone.

IX. Admin

Adminandusers share the same interface but adminget's access to functionalities such as edit, add and delete options for categories, subcategories and products.

DatabaseDesign

Tables

BRAND

CREATETABLE`BRAND`(
 `id`int(11)NOTNULL,
 `name`varchar(60)NOTNULL
)ENGINE=InnoDBDEFAULTCHARSET=latin1;

CATEGORY

FEATURES

CREATETABLE`FEATURES`(
 `id`int(11)NOTNULL,
 `name`varchar(60)NOTNULL
)ENGINE=InnoDBDEFAULTCHARSET=latin1;

PRODUCT

CREATETABLE`PRODUCT`(
 `id`int(11)NOTNULL,
 `name`varchar(1000)NOTNULL,
 `categoryid`int(11)NOTNULL,
 `subcategoryid`int(11)NOTNULL,
 `brandid`int(11)NOTNULL,
 `price`decimal(10,0)NOTNULL,
 `date`dateNOTNULL,
 `content`longtextNOTNULL,
 `deletedyn`varchar(1)NOTNULL,
 `images`varchar(400)NOTNULL
)ENGINE=InnoDBDEFAULTCHARSET=latin1;

PRODUCT FEATURES

CREATETABLE`PRODUCT_FEATURES`(
 `id`int(11)NOTNULL,
 `productid`int(11)NOTNULL,
 `featureid`int(11)NOTNULL
)ENGINE=InnoDBDEFAULTCHARSET=latin1;

REVIEW

CREATETABLE`REVIEW`(
 `id`int(11)NOTNULL,
 `productid`int(11)NOTNULL,
 `userid`int(11)NOTNULL,
 `rating`decimal(10,0)NOTNULL,
 `feedback`longtextNOTNULL,
 `datereviewed`datetimeNOTNULL,
 `deletedyn`varchar(1)NOTNULL
)ENGINE=InnoDBDEFAULTCHARSET=latin1;

ROLES CREATETABLE`ROLES`(id`int(11)NOTNULL, rolename`varchar(400)NOTNULL, `adminrights`varchar(2)NOTNULL)ENGINE=InnoDBDEFAULTCHARSET=latin1; SUBCATEGORY CREATETABLE`SUBCATEGORY`(`id`int(11)NOTNULL, `categoryid`int(10)NOTNULL, `name`varchar(60)NOTNULL, `deletedyn`varchar(1)NOTNULL, `image`varchar(64)NOTNULL)ENGINE=InnoDBDEFAULTCHARSET=latin1; **USERS** CREATETABLE`USERS`(`id`int(11)NOTNULL, `username`varchar(60)NOTNULL, `fname`varchar(400)NOTNULL, `lname`varchar(400)NOTNULL, `password`varchar(400)NOTNULL, `email`varchar(400)NOTNULL, `roleid`int(11)NOTNULL, `review count`int(11)NOTNULL review_count`int(11)NOTNULL)ENGINE=InnoDBDEFAULTCHARSET=latin1; **WISHLIST**)ENGINE=InnoDBDEFAULTCHARSET=latin1; INDEXES/REFERENTIALINTEGRITY

INDEXESTRE EXERT

BRAND

ALTERTABLE`brand`
ADDPRIMARYKEY('id'),
ADDUNIQUEKEY`name`(`name`);

CATEGORY

ALTERTABLE`category`
ADDPRIMARYKEY(`id`),
ADDUNIQUEKEY`name`(`name`);

FEATURES

ALTERTABLE`features`
ADDPRIMARYKEY('id'),
ADDUNIQUEKEY`name`(`name`);

PRODUCT

ALTERTABLE`product`
ADDPRIMARYKEY(`id`),
ADDKEY`brandid`(`brandid`),
ADDKEY`categoryid`(`categoryid`),
ADDKEY`subcategoryid`(`subcategoryid`);

PRODUCT FEATURES

ALTERTABLE`product_features` ADDPRIMARYKEY(`id`), ADDKEY`featureid`(`featureid`), ADDKEY`productid`(`productid`);

REVIEW

ALTERTABLE`review`
ADDPRIMARYKEY(`id`),
ADDKEY`userid' (`userid'),
ADDKEY`productid_2` (`productid`),
ADDKEY`userid_2` (`userid`);

ROLES

ALTERTABLE`roles` ADDPRIMARYKEY(`id`);

SUBCATEGORY

ALTERTABLE`subcategory` ADDPRIMARYKEY(`id`), ADDKEY`categoryid`(`categoryid`);

USERS

ALTERTABLE`users` ADDPRIMARYKEY('id'), ADDKEY`roleid`('roleid');

WISHLIST

ALTERTABLE`wishlist` ADDPRIMARYKEY('id'), ADDKEY`productid`('productid'), ADDKEY`userid`('userid');

AUTO_INCREMENTfordumpedtables

BRAND

ALTERTABLE`brand` MODIFY`id`int(11)NOTNULLAUTO_INCREMENT,AUTO_INCREMENT=43;

CATEGORY

ALTERTABLE`category` MODIFY`id`int(11)NOTNULLAUTO_INCREMENT,AUTO_INCREMENT=11;

FEATURES

ALTERTABLE`features` MODIFY`id`int(11)NOTNULLAUTO_INCREMENT,AUTO_INCREMENT=43;

PRODUCT

ALTERTABLE`product` MODIFY`id`int(11)NOTNULLAUTO_INCREMENT,AUTO_INCREMENT=45;

PRODUCT FEATURES

ALTERTABLE`product_features` MODIFY`id`int(11)NOTNULLAUTO_INCREMENT,AUTO_INCREMENT=59;

REVIEW

ALTERTABLE`review` MODIFY`id`int(11)NOTNULLAUTO_INCREMENT,AUTO_INCREMENT=30;

ROLES

ALTERTABLE`roles` MODIFY`id`int(11)NOTNULLAUTO_INCREMENT,AUTO_INCREMENT=3;

SUBCATEGORY

ALTERTABLE`subcategory` MODIFY`id`int(11)NOTNULLAUTO_INCREMENT,AUTO_INCREMENT=48;

USERS

ALTERTABLE`users` MODIFY`id`int(11)NOTNULLAUTO_INCREMENT,AUTO_INCREMENT=17;

WISHLIST

ALTERTABLE`wishlist` MODIFY`id`int(11)NOTNULLAUTO_INCREMENT,AUTO_INCREMENT=18;

Constraintsfordumpedtables

PRODUCT

ALTERTABLE`product`
ADDCONSTRAINT`product_ibfk_1`FOREIGNKEY(`brandid`)REFERENCES `brand`(`id`)ON

DELETECASCADEONUPDATECASCADE,
ADDCONSTRAINT`product_ibfk_2`FOREIGNKEY(`categoryid`)REFERENCES `category`(`id`)ON

DELETECASCADEONUPDATECASCADE,
ADDCONSTRAINT`product_ibfk_3`FOREIGNKEY(`subcategoryid`)REFERENCES
`subcategory`(`id`)ONDELETECASCADEONUPDATECASCADE;

PRODUCT FEATURES

ALTERTABLE`product_features`
ADDCONSTRAINT`product_features_ibfk_1`FOREIGNKEY(`featureid`) REFERENCES
`features`(`id`)ONDELETECASCADEONUPDATECASCADE,
ADDCONSTRAINT`product_features_ibfk_2`FOREIGNKEY(`productid`)
REFERENCES`product`(`id`)ONDELETECASCADEONUPDATECASCADE;

REVIEW

ALTERTABLE`review`
ADDCONSTRAINT`review_ibfk_1`FOREIGNKEY(`productid`)REFERENCES `product`(`id`)ON
DELETECASCADEONUPDATECASCADE,
ADDCONSTRAINT`review_ibfk_2`FOREIGNKEY(`userid`)REFERENCES`users` (`id`)
ONDELETECASCADEONUPDATECASCADE;

SUBCATEGORY

ALTERTABLE`subcategory`
ADDCONSTRAINT`subcategory_ibfk_1`FOREIGNKEY(`categoryid`)
REFERENCES`category`(`id`)ONDELETECASCADEONUPDATECASCADE;

USERS

ALTERTABLE`users`
ADDCONSTRAINT`users_ibfk_1`FOREIGNKEY(`roleid`)REFERENCES`roles` (`id`)
ONDELETECASCADEONUPDATECASCADE;

WISHLIST

ALTERTABLE`wishlist`
ADDCONSTRAINT`wishlist_ibfk_1`FOREIGNKEY(`productid`)REFERENCES `product`(`id`)ON
DELETECASCADEONUPDATECASCADE,
ADDCONSTRAINT`wishlist_ibfk_2`FOREIGNKEY(`userid`)REFERENCES`users` (`id`)
ONDELETECASCADEONUPDATECASCADE;

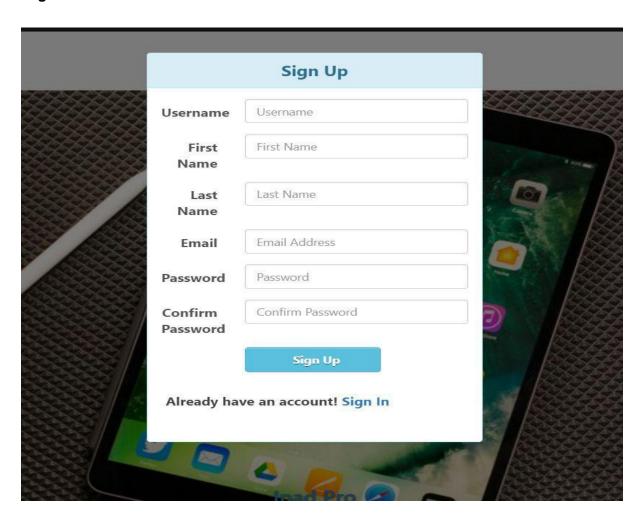
Languages/Frameworksused

ClientSide:HTML,CSS,AJAX,JQuery

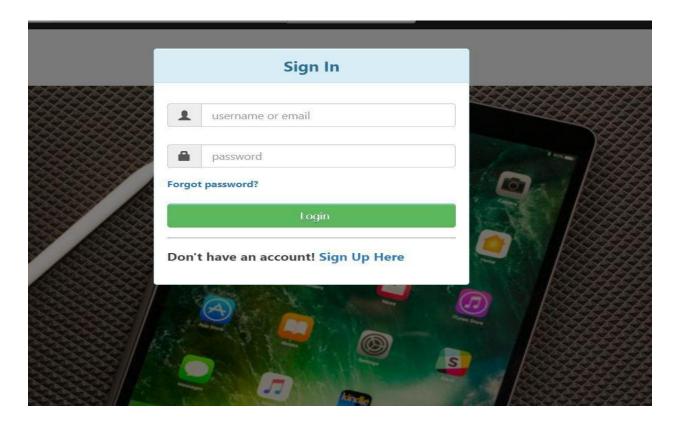
ServerSide:PHP,MySQL

Screenshots

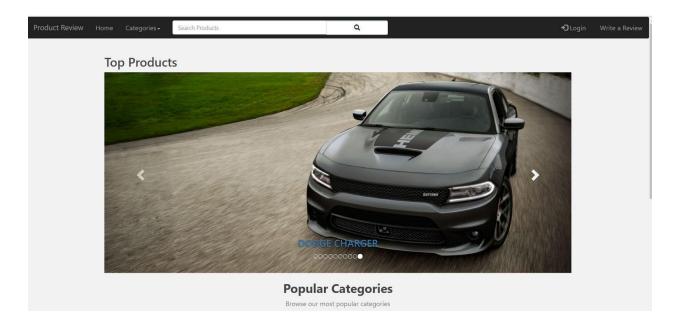
Register



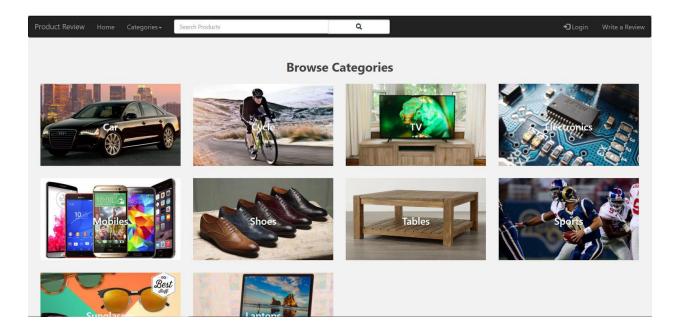
Login:



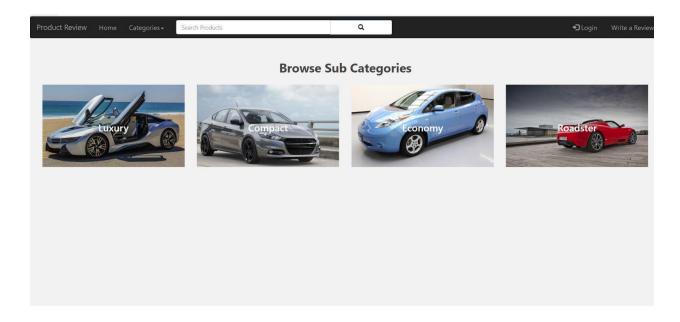
Home:



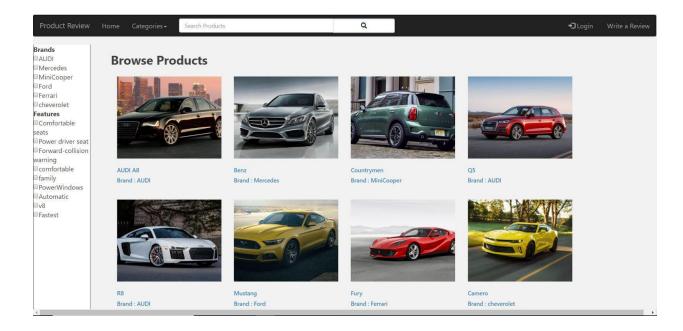
Category:



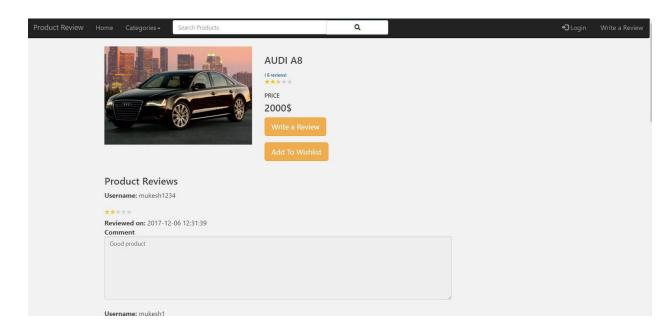
Subcategory:



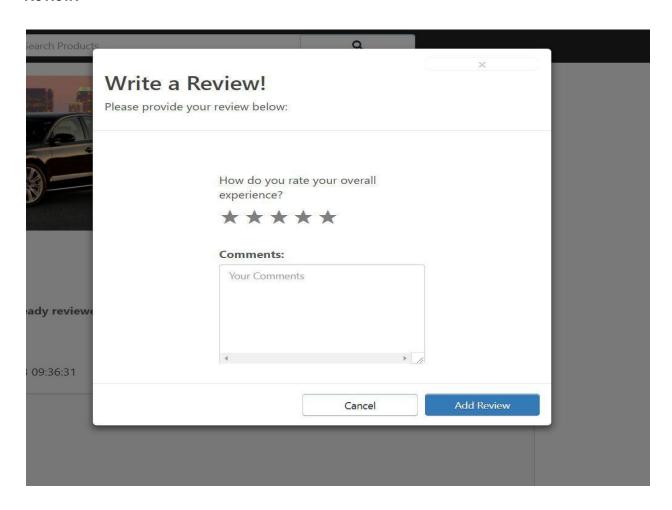
Productlist:



Productdetail:



Review:



Wishlist:

