

E-Auction@IITB

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Chapter 1

Namespace Index

1.1 Namespace List

Here is a list of all namespaces with brief descriptions:

website	9
website.admin	9
website.apps	9
website.forms	10
website.models	10
website.popl	10
website.tests	12
website.transactions	12
website.urls	13
website.validation	14
website.views	15

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

Form

website.forms.CommentForm	22
website.forms.LoginForm	23
website.forms.PutUpAuctionForm	25
website.forms.RegistrationForm	26
website.forms.TopUpForm	27

Model

website.models.Auction	19
website.models.Bid	20
website.models.Chat	21
website.models.Product	23
website.models.User	28
website.models.Watchlist	29

AppConfig

website.apps.WebsiteConfig	30
--------------------------------------	----

Chapter 3

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

website.models.Auction	19
website.models.Bid	20
website.models.Chat	21
website.forms.CommentForm	22
website.forms.LoginForm	23
website.models.Product	23
website.forms.PutUpAuctionForm	25
website.forms.RegistrationForm	26
website.forms.TopUpForm	27
website.models.User	28
website.models.Watchlist	29
website.apps.WebsiteConfig	30

Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

__init__.py	31
admin.py	31
apps.py	31
forms.py	31
models.py	32
popl.py	32
tests.py	33
transactions.py	33
urls.py	33
validation.py	33
views.py	34

Chapter 5

Namespace Documentation

5.1 website Namespace Reference

Namespaces

- [admin](#)
- [apps](#)
- [forms](#)
- [models](#)
- [popl](#)
- [tests](#)
- [transactions](#)
- [urls](#)
- [validation](#)
- [views](#)

5.2 website.admin Namespace Reference

5.2.1 Detailed Description

`This file is used to setup the admin.`

5.3 website.apps Namespace Reference

Classes

- class [WebsiteConfig](#)

5.3.1 Detailed Description

`Used to configure website.`

5.4 website.forms Namespace Reference

Classes

- class [CommentForm](#)
- class [LoginForm](#)
- class [PutUpAuctionForm](#)
- class [RegistrationForm](#)
- class [TopUpForm](#)

5.4.1 Detailed Description

File which stores all the forms.

5.5 website.models Namespace Reference

Classes

- class [Auction](#)
- class [Bid](#)
- class [Chat](#)
- class [Product](#)
- class [User](#)
- class [Watchlist](#)

5.5.1 Detailed Description

This file represents each database using classes.

5.6 website.popl Namespace Reference

Variables

- [conn](#) = sqlite3.connect('db.sqlite3')
- [c](#) = conn.cursor()
- [b](#) = [User](#)()
- [username](#)
- [email](#)
- [password](#)
- [balance](#)
- [firstname](#)
- [lastname](#)
- [cellphone](#)
- [address](#)
- [town](#)
- [post_code](#)
- [country](#)

- `a = Product()`
- `title`
- `description`
- `base_price`
- `time_starting`
- `category`
- `d = Product.objects.filter(id=1)`
- `u = User.objects.filter(id=4)`
- `user_id`
- `product_id`
- `number_of_bids`
- `time_ending`
- `days`
- `minutes`
- `hours`

5.6.1 Detailed Description

This script populates the database with products, users, and auctions.
The first auction starts one minute after executing this script.

5.6.2 Variable Documentation

5.6.2.1 `website.popl.a = Product()`

5.6.2.2 `website.popl.address`

5.6.2.3 `website.popl.b = User()`

5.6.2.4 `website.popl.balance`

5.6.2.5 `website.popl.base_price`

5.6.2.6 `website.popl.c = conn.cursor()`

5.6.2.7 `website.popl.category`

5.6.2.8 `website.popl.cellphone`

5.6.2.9 `website.popl.conn = sqlite3.connect('db.sqlite3')`

5.6.2.10 `website.popl.country`

5.6.2.11 `website.popl.d = Product.objects.filter(id=1)`

5.6.2.12 `website.popl.days`

5.6.2.13 website.popl.description

5.6.2.14 website.popl.email

5.6.2.15 website.popl.firstname

5.6.2.16 website.popl.hours

5.6.2.17 website.popl.lastname

5.6.2.18 website.popl.minutes

5.6.2.19 website.popl.number_of_bids

5.6.2.20 website.popl.password

5.6.2.21 website.popl.post_code

5.6.2.22 website.popl.product_id

5.6.2.23 website.popl.time_ending

5.6.2.24 website.popl.time_starting

5.6.2.25 website.popl.title

5.6.2.26 website.popl.town

5.6.2.27 website.popl.u = User.objects.filter(id=4)

5.6.2.28 website.popl.user_id

5.6.2.29 website.popl.username

5.7 website.tests Namespace Reference

5.8 website.transactions Namespace Reference

Functions

- def [increase_bid](#) (user, auction)
- def [remaining_time](#) (auction)
- def [update_balance](#) (user)

5.8.1 Detailed Description

This file deals with all the transaction related issues in the auction.

The 3 functions used are:

increase_bid- Increases the bid amount on a product.

remaining_time- Shows how much time remains before the auction closes for a product.

update_balance- Reduces the amount from user's account that has been bidden

5.8.2 Function Documentation

5.8.2.1 def website.transactions.increase_bid (user, auction)

Removes 5% base price per bid from user if previously also bidden, else total bid amount

Creates a Bid record

Increases the auction's number of bids

Parameters

 auction : class 'website.models.Auction

5.8.2.2 def website.transactions.remaining_time (auction)

Calculates the auction's remaining time
in minutes and seconds and converts them
into a string.

Parameters

 auction : class 'website.models.Auction

Returns

 time_left : str
 string representation of remaining time in
 minutes and seconds.
 expired : int
 if the value is less than zero then the auction ended.

5.8.2.3 def website.transactions.update_balance (user)

Updates the balance of a user from all
auctions where he didn't make the
winning bid (refunds all the bids)

Parameters

 user : class website.models.User

5.9 website.urls Namespace Reference

Variables

- string [app_name](#) = 'website'
- list [urlpatterns](#)

5.9.1 Detailed Description

This file contains all the redirection paths inbetween pages.

5.9.2 Variable Documentation

5.9.2.1 string website.urls.app_name = 'website'

5.9.2.2 list website.urls.urlpatterns

Initial value:

```
1 = [
2     path('', views.index, name='index'),
3     path('login/', views.login_page, name='login_view'),
4     path('logout/', views.logout_page, name='logout_view'),
5     path('register/', views.register_page, name='register_page'),
6     path('register/new_user/', views.register, name='register'),
7     path('category/<str:category>', views.filter_auctions, name='filter_auctions'),
8     path('watchlist/<int:auction_id>', views.watchlist, name='watchlist'),
9     path('balance/', views.balance, name='balance'),
10    path('balance/topup/', views.topup, name='topup'),
11    path('watchlist/', views.watchlist_page, name='watchlist'),
12    path('my_items/', views.my_items, name='my_items'),
13    path('sell_item/', views.sell_item, name='sell_item' ),
14    path('sell_item/save_auction/', views.save_auction, name='save_auction'),
15    path('bid/<int:auction_id>', views.bid_page, name='bid_page'),
16    path('bid/<int:auction_id>/comment/', views.comment, name='comment'),
17    path('bid/<int:auction_id>/raise_bid/', views.raise_bid, name='raise_bid'),
18 ]
```

5.10 website.validation Namespace Reference

Functions

- def [validate_login](#) (username, password)
- def [validate_registration](#) (username, password1, password2, email)

5.10.1 Detailed Description

This file contains all the user validation related code.

The 2 functions used are:

`validate_login`- Checks the password based on username and if it matches, accesses login

`validate_registration`- Checks if username/email id provided during registration are new or not. Also checks if

5.10.2 Function Documentation

5.10.2.1 def website.validation.validate_login (username, password)

This function checks if the username entered during login is a valid one or not.
It also checks if the password provided for the username matches or not.

5.10.2.2 `def website.validation.validate_registration (username, password1, password2, email)`

This function checks during registration if the username and email id provided are new ones or not. It also checks if the 2 passwords provided match or not.

5.11 website.views Namespace Reference

Functions

- `def index (request)`
- `def bid_page (request, auction_id)`
- `def comment (request, auction_id)`
- `def raise_bid (request, auction_id)`
- `def register_page (request)`
- `def watchlist (request, auction_id)`
- `def watchlist_page (request)`
- `def balance (request)`
- `def sell_item (request)`
- `def topup (request)`
- `def filter_auctions (request, category)`
- `def my_items (request)`
- `def save_auction (request)`
- `def register (request)`
- `def login_page (request)`
- `def logout_page (request)`

5.11.1 Detailed Description

This file contains functions that map the content to html files.

5.11.2 Function Documentation

5.11.2.1 `def website.views.balance (request)`

If the user is logged in returns
a `HttpResponse` with the page that
allows the user to update his or her balance.

Returns

`HttpResponse`

The page with the user information
that updates the account's balance.

Function : `index(request)`

If the user is not logged in.

5.11.2.2 `def website.views.bid_page (request, auction_id)`

Returns the bid page for the selected auction.

Parameters

`auction_id` : class 'int'

Returns

HTTPResponse

Return the bidding page for the selected auction.

Function : `index(request)`

If the user is not logged in.

5.11.2.3 `def website.views.comment (request, auction_id)`

Comment on an auction.

Returns

Function : `bid_page(request, auction_id)`

Return the

Function : `index(request)`

If the user is not logged in.

5.11.2.4 `def website.views.filter_auctions (request, category)`

Searches current and future auctions that belong in a category.

Parameters

`category` : class 'str'

The category name.

Returns

Function : `index(request)`

If the user is not logged in.

5.11.2.5 `def website.views.index (request)`

The main page of the website

Returns

HTTPResponse

The index page with the current and future auctions.

5.11.2.6 `def website.views.login_page (request)`

Login POST request.

Returns

Function

Index page request

5.11.2.7 `def website.views.logout_page (request)`

Deletes the session.

Returns

Function

Index page request

5.11.2.8 `def website.views.my_items (request)`

Records all the auctions that has been set up by a particular user

Returns

Function: `index(request)`

5.11.2.9 `def website.views.raise_bid (request, auction_id)`

Increases the bid of the selected auction
and returns to the bidding page.

Parametes

`auction_id : class 'int'`

Returns

Function : `bid_page(request, auction_id)`
Return the bidding page for the selected auction.
Function : `index(request)`
If the user is not logged in.

5.11.2.10 `def website.views.register (request)`

Registration POST request.

Returns

Function

Index page request

5.11.2.11 `def website.views.register_page (request)`

Returns the registration page.

Returns

HTTPResponse

The registration page.

5.11.2.12 `def website.views.save_auction (request)`

Saves auction created by the user

Returns

Function : `index(request)`
 If the user is not logged in

5.11.2.13 `def website.views.sell_item (request)`

If the user is logged in returns
a `HttpResponse` with the page that
allows the user to enter details about
the product he/she wants to put up for auction

Returns

`HttpResponse`
 The page with the user information
 that creates a new auction.
Function : `index(request)`
 If the user is not logged in.

5.11.2.14 `def website.views.topup (request)`

Adds credit to user's current balance.

Returns

Function : `index(request)`
 If the user is not logged in.

5.11.2.15 `def website.views.watchlist (request, auction_id)`

Adds the auction to the user's watchlist.

Returns

Function : `index(request)`

5.11.2.16 `def website.views.watchlist_page (request)`

Disguises the index page to look
like a page with the auctions the
user is watching.

Returns

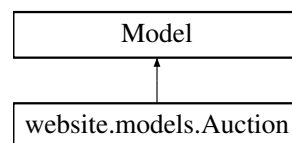
`HttpResponse`
 The index page with auctions the user is watching.
Function : `index(request)`
 If the user is not logged in.

Chapter 6

Class Documentation

6.1 website.models.Auction Class Reference

Inheritance diagram for website.models.Auction:



Public Member Functions

- `def __str__(self)`

Static Public Attributes

- `product_id = models.ForeignKey(Product, on_delete=models.CASCADE)`
- `user_id = models.ForeignKey(User, on_delete=models.CASCADE)`
- `base_price = models.IntegerField()`
- `number_of_bids = models.IntegerField()`
- `time_starting = models.DateTimeField()`
- `time_ending = models.DateTimeField()`

6.1.1 Detailed Description

This class stores the auction details of a specific product (base price, start time, end time, etc.)

6.1.2 Member Function Documentation

6.1.2.1 `def website.models.Auction.__str__(self)`

6.1.3 Member Data Documentation

6.1.3.1 `website.models.Auction.base_price = models.IntegerField()` [static]

6.1.3.2 `website.models.Auction.number_of_bids = models.IntegerField()` [static]

6.1.3.3 `website.models.Auction.product_id = models.ForeignKey(Product, on_delete=models.CASCADE)` [static]

6.1.3.4 `website.models.Auction.time_ending = models.DateTimeField()` [static]

6.1.3.5 `website.models.Auction.time_starting = models.DateTimeField()` [static]

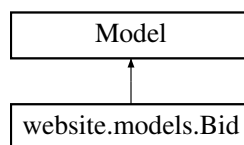
6.1.3.6 `website.models.Auction.user_id = models.ForeignKey(User, on_delete=models.CASCADE)` [static]

The documentation for this class was generated from the following file:

- [models.py](#)

6.2 website.models.Bid Class Reference

Inheritance diagram for website.models.Bid:



Public Member Functions

- `def __str__(self)`

Static Public Attributes

- `user_id = models.ForeignKey(User, on_delete=models.CASCADE)`
- `auction_id = models.ForeignKey(Auction, on_delete=models.CASCADE)`
- `bid_time = models.DateTimeField()`

6.2.1 Detailed Description

This class stores the highest bid made on a product and the user who placed the bid.

6.2.2 Member Function Documentation

6.2.2.1 `def website.models.Bid.__str__(self)`

6.2.3 Member Data Documentation

6.2.3.1 `website.models.Bid.auction_id = models.ForeignKey(Auction, on_delete=models.CASCADE)` [static]

6.2.3.2 `website.models.Bid.bid_time = models.DateTimeField()` [static]

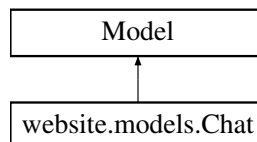
6.2.3.3 `website.models.Bid.user_id = models.ForeignKey(User, on_delete=models.CASCADE)` [static]

The documentation for this class was generated from the following file:

- [models.py](#)

6.3 website.models.Chat Class Reference

Inheritance diagram for website.models.Chat:



Public Member Functions

- `def __str__(self)`

Static Public Attributes

- `auction_id = models.ForeignKey(Auction, on_delete=models.CASCADE)`
- `user_id = models.ForeignKey(User, on_delete=models.CASCADE)`
- `message = models.TextField()`
- `time_sent = models.DateTimeField()`

6.3.1 Detailed Description

This class stores the messages posted on a product by an user.

6.3.2 Member Function Documentation

6.3.2.1 `def website.models.Chat.__str__(self)`

6.3.3 Member Data Documentation

6.3.3.1 `website.models.Chat.auction_id = models.ForeignKey(Auction, on_delete=models.CASCADE)` [static]

6.3.3.2 `website.models.Chat.message = models.TextField()` [static]

6.3.3.3 `website.models.Chat.time_sent = models.DateTimeField()` [static]

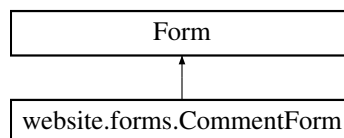
6.3.3.4 `website.models.Chat.user_id = models.ForeignKey(User, on_delete=models.CASCADE)` [static]

The documentation for this class was generated from the following file:

- [models.py](#)

6.4 website.forms.CommentForm Class Reference

Inheritance diagram for `website.forms.CommentForm`:



Static Public Attributes

- `comment` = `forms.CharField(widget=forms.Textarea)`

6.4.1 Detailed Description

Box where user can comment on a product.

6.4.2 Member Data Documentation

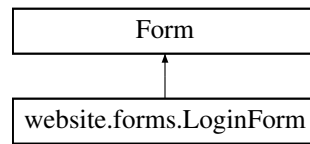
6.4.2.1 `website.forms.CommentForm.comment = forms.CharField(widget=forms.Textarea)` [static]

The documentation for this class was generated from the following file:

- [forms.py](#)

6.5 website.forms.LoginForm Class Reference

Inheritance diagram for website.forms.LoginForm:



Static Public Attributes

- `username` = `forms.CharField(max_length=45)`
- `password` = `forms.CharField(max_length=45)`

6.5.1 Detailed Description

Inputs user id and password during login.

6.5.2 Member Data Documentation

6.5.2.1 `website.forms.LoginForm.password` = `forms.CharField(max_length=45)` [static]

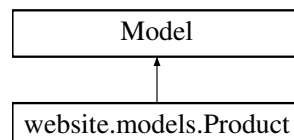
6.5.2.2 `website.forms.LoginForm.username` = `forms.CharField(max_length=45)` [static]

The documentation for this class was generated from the following file:

- `forms.py`

6.6 website.models.Product Class Reference

Inheritance diagram for website.models.Product:



Public Member Functions

- `def __str__(self)`

Static Public Attributes

- tuple `CATEGORIES`
- `title` = `models.CharField(max_length=255)`
- `description` = `models.CharField(max_length=500)`
- `base_price` = `models.IntegerField()`
- `time_starting` = `models.DateTimeField()`
- `category`
- `image` = `models.ImageField(upload_to='images/')`
- `date_posted` = `models.DateTimeField(auto_now_add=True, blank=True)`

6.6.1 Detailed Description

Whenever a new product is put up for auction, the details are stored as an object of this class.

6.6.2 Member Function Documentation

6.6.2.1 `def website.models.Product.__str__(self)`

6.6.3 Member Data Documentation

6.6.3.1 `website.models.Product.base_price = models.IntegerField()` `[static]`

6.6.3.2 `tuple website.models.Product.CATEGORIES` `[static]`

Initial value:

```
1 = (
2     ('HH', 'Household'),
3     ('EL', 'Electronics'),
4     ('BS', 'Books and Study Material')
5 )
```

6.6.3.3 `website.models.Product.category` `[static]`

Initial value:

```
1 = models.CharField(
2     max_length=2,
3     choices=CATEGORIES
4 )
```

6.6.3.4 `website.models.Product.date_posted = models.DateTimeField(auto_now_add=True, blank=True)` `[static]`

6.6.3.5 `website.models.Product.description = models.CharField(max_length=500)` `[static]`

6.6.3.6 `website.models.Product.image = models.ImageField(upload_to='images/')` `[static]`

6.6.3.7 `website.models.Product.time_starting = models.DateTimeField()` `[static]`

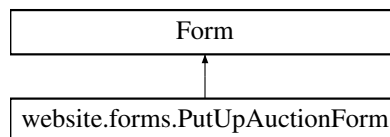
6.6.3.8 `website.models.Product.title = models.CharField(max_length=255)` `[static]`

The documentation for this class was generated from the following file:

- [models.py](#)

6.7 website.forms.PutUpAuctionForm Class Reference

Inheritance diagram for `website.forms.PutUpAuctionForm`:



Static Public Attributes

- `title` = `forms.CharField(max_length=45)`
- `description` = `forms.CharField(max_length=200)`
- `time_starting` = `forms.DateField()`
- `hour_starting` = `forms.IntegerField()`
- `base_price` = `forms.IntegerField(max_value=200000, min_value=10)`
- `duration` = `forms.IntegerField(max_value=20, min_value=1)`
- `category` = `forms.CharField(max_length=2)`
- `image` = `forms.ImageField()`

6.7.1 Detailed Description

Inputs new product details from user for auction.

6.7.2 Member Data Documentation

6.7.2.1 `website.forms.PutUpAuctionForm.base_price = forms.IntegerField(max_value=200000, min_value=10)` `[static]`

6.7.2.2 `website.forms.PutUpAuctionForm.category = forms.CharField(max_length=2)` `[static]`

6.7.2.3 `website.forms.PutUpAuctionForm.description = forms.CharField(max_length=200)` `[static]`

6.7.2.4 `website.forms.PutUpAuctionForm.duration = forms.IntegerField(max_value=20, min_value=1)` `[static]`

6.7.2.5 `website.forms.PutUpAuctionForm.hour_starting = forms.IntegerField()` `[static]`

6.7.2.6 `website.forms.PutUpAuctionForm.image = forms.ImageField()` `[static]`

6.7.2.7 `website.forms.PutUpAuctionForm.time_starting = forms.DateField()` `[static]`

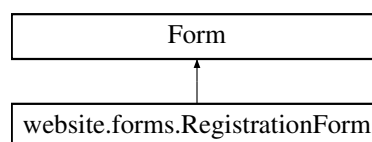
6.7.2.8 `website.forms.PutUpAuctionForm.title = forms.CharField(max_length=45)` `[static]`

The documentation for this class was generated from the following file:

- [forms.py](#)

6.8 website.forms.RegistrationForm Class Reference

Inheritance diagram for `website.forms.RegistrationForm`:



Static Public Attributes

- `username` = `forms.CharField(max_length=45)`
- `email` = `forms.EmailField()`
- `password1` = `forms.CharField(max_length=45)`
- `password2` = `forms.CharField(max_length=45)`
- `firstname` = `forms.CharField(max_length=56)`
- `lastname` = `forms.CharField(max_length=45)`
- `cellphone` = `forms.CharField(max_length=45)`
- `address` = `forms.CharField(max_length=255)`
- `town` = `forms.CharField(max_length=45)`
- `postcode` = `forms.CharField(max_length=45)`
- `country` = `forms.CharField(max_length=45)`

6.8.1 Detailed Description

Stores the user credentials upon first time registration.

6.8.2 Member Data Documentation

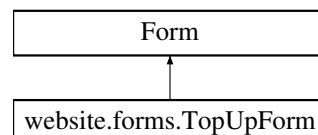
- 6.8.2.1 `website.forms.RegistrationForm.address = forms.CharField(max_length=255)` `[static]`
- 6.8.2.2 `website.forms.RegistrationForm.cellphone = forms.CharField(max_length=45)` `[static]`
- 6.8.2.3 `website.forms.RegistrationForm.country = forms.CharField(max_length=45)` `[static]`
- 6.8.2.4 `website.forms.RegistrationForm.email = forms.EmailField()` `[static]`
- 6.8.2.5 `website.forms.RegistrationForm.firstname = forms.CharField(max_length=56)` `[static]`
- 6.8.2.6 `website.forms.RegistrationForm.lastname = forms.CharField(max_length=45)` `[static]`
- 6.8.2.7 `website.forms.RegistrationForm.password1 = forms.CharField(max_length=45)` `[static]`
- 6.8.2.8 `website.forms.RegistrationForm.password2 = forms.CharField(max_length=45)` `[static]`
- 6.8.2.9 `website.forms.RegistrationForm.postcode = forms.CharField(max_length=45)` `[static]`
- 6.8.2.10 `website.forms.RegistrationForm.town = forms.CharField(max_length=45)` `[static]`
- 6.8.2.11 `website.forms.RegistrationForm.username = forms.CharField(max_length=45)` `[static]`

The documentation for this class was generated from the following file:

- [forms.py](#)

6.9 website.forms.TopUpForm Class Reference

Inheritance diagram for `website.forms.TopUpForm`:



Static Public Attributes

- `amount = forms.DecimalField(max_digits=7, decimal_places=2)`

6.9.1 Detailed Description

Dropdown menu for available topup amounts.

6.9.2 Member Data Documentation

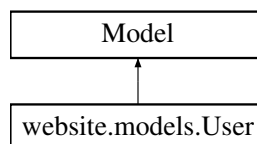
6.9.2.1 `website.forms.TopUpForm.amount = forms.DecimalField(max_digits=7, decimal_places=2)` `[static]`

The documentation for this class was generated from the following file:

- [forms.py](#)

6.10 `website.models.User` Class Reference

Inheritance diagram for `website.models.User`:



Public Member Functions

- `def __str__(self)`

Static Public Attributes

- `username` = `models.CharField(max_length=45)`
- `password` = `models.CharField(max_length=45)`
- `email` = `models.EmailField()`
- `balance` = `models.DecimalField(max_digits=7, decimal_places=2)`
- `firstname` = `models.CharField(max_length=56)`
- `lastname` = `models.CharField(max_length=45)`
- `cellphone` = `models.CharField(max_length=14)`
- `address` = `models.CharField(max_length=255)`
- `town` = `models.CharField(max_length=45)`
- `post_code` = `models.CharField(max_length=45)`
- `country` = `models.CharField(max_length=45)`

6.10.1 Detailed Description

This class stores all the user data when an user registers and also the updates.

6.10.2 Member Function Documentation

6.10.2.1 `def website.models.User.__str__(self)`

6.10.3 Member Data Documentation

6.10.3.1 `website.models.User.address = models.CharField(max_length=255)` `[static]`

6.10.3.2 `website.models.User.balance = models.DecimalField(max_digits=7, decimal_places=2)` `[static]`

6.10.3.3 `website.models.User.cellphone = models.CharField(max_length=14)` `[static]`

6.10.3.4 `website.models.User.country = models.CharField(max_length=45)` `[static]`

6.10.3.5 `website.models.User.email = models.EmailField()` `[static]`

6.10.3.6 `website.models.User.firstname = models.CharField(max_length=56)` `[static]`

6.10.3.7 `website.models.User.lastname = models.CharField(max_length=45)` `[static]`

6.10.3.8 `website.models.User.password = models.CharField(max_length=45)` `[static]`

6.10.3.9 `website.models.User.post_code = models.CharField(max_length=45)` `[static]`

6.10.3.10 `website.models.User.town = models.CharField(max_length=45)` `[static]`

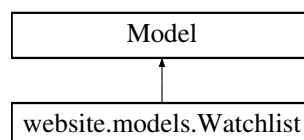
6.10.3.11 `website.models.User.username = models.CharField(max_length=45)` `[static]`

The documentation for this class was generated from the following file:

- [models.py](#)

6.11 website.models.Watchlist Class Reference

Inheritance diagram for `website.models.Watchlist`:



Public Member Functions

- `def __str__(self)`

Static Public Attributes

- `user_id` = `models.ForeignKey(User, on_delete=models.CASCADE)`
- `auction_id` = `models.ForeignKey(Auction, on_delete=models.CASCADE)`

6.11.1 Detailed Description

This class stores the info of all the products an user is watching.

6.11.2 Member Function Documentation

6.11.2.1 `def website.models.Watchlist.__str__(self)`

6.11.3 Member Data Documentation

6.11.3.1 `website.models.Watchlist.auction_id = models.ForeignKey(Auction, on_delete=models.CASCADE)` [static]

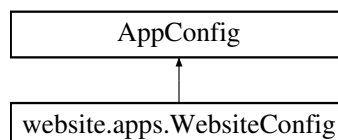
6.11.3.2 `website.models.Watchlist.user_id = models.ForeignKey(User, on_delete=models.CASCADE)` [static]

The documentation for this class was generated from the following file:

- [models.py](#)

6.12 website.apps.WebsiteConfig Class Reference

Inheritance diagram for `website.apps.WebsiteConfig`:



Static Public Attributes

- string `name` = `'website'`

6.12.1 Member Data Documentation

6.12.1.1 `string website.apps.WebsiteConfig.name = 'website'` [static]

The documentation for this class was generated from the following file:

- [apps.py](#)

Chapter 7

File Documentation

7.1 `__init__.py` File Reference

Namespaces

- [website](#)

7.2 `admin.py` File Reference

Namespaces

- [website.admin](#)

7.3 `apps.py` File Reference

Classes

- class [website.apps.WebsiteConfig](#)

Namespaces

- [website.apps](#)

7.4 `forms.py` File Reference

Classes

- class [website.forms.RegistrationForm](#)
- class [website.forms.LoginForm](#)
- class [website.forms.TopUpForm](#)
- class [website.forms.CommentForm](#)
- class [website.forms.PutUpAuctionForm](#)

Namespaces

- [website.forms](#)

7.5 models.py File Reference

Classes

- class [website.models.User](#)
- class [website.models.Product](#)
- class [website.models.Auction](#)
- class [website.models.Watchlist](#)
- class [website.models.Bid](#)
- class [website.models.Chat](#)

Namespaces

- [website.models](#)

7.6 popl.py File Reference

Namespaces

- [website.popl](#)

Variables

- [website.popl.conn](#) = `sqlite3.connect('db.sqlite3')`
- [website.popl.c](#) = `conn.cursor()`
- [website.popl.b](#) = `User()`
- [website.popl.username](#)
- [website.popl.email](#)
- [website.popl.password](#)
- [website.popl.balance](#)
- [website.popl.firstname](#)
- [website.popl.lastname](#)
- [website.popl.cellphone](#)
- [website.popl.address](#)
- [website.popl.town](#)
- [website.popl.post_code](#)
- [website.popl.country](#)
- [website.popl.a](#) = `Product()`
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- [website.popl.category](#)
- [website.popl.d](#) = `Product.objects.filter(id=1)`
- [website.popl.u](#) = `User.objects.filter(id=4)`
- [website.popl.user_id](#)
- [website.popl.product_id](#)
- [website.popl.number_of_bids](#)
- [website.popl.time_ending](#)
- [website.popl.days](#)
- [website.popl.minutes](#)
- [website.popl.hours](#)

7.7 tests.py File Reference

Namespaces

- [website.tests](#)

7.8 transactions.py File Reference

Namespaces

- [website.transactions](#)

Functions

- def [website.transactions.increase_bid](#) (user, auction)
- def [website.transactions.remaining_time](#) (auction)
- def [website.transactions.update_balance](#) (user)

7.9 urls.py File Reference

Namespaces

- [website.urls](#)

Variables

- string [website.urls.app_name](#) = 'website'
- list [website.urls.urlpatterns](#)

7.10 validation.py File Reference

Namespaces

- [website.validation](#)

Functions

- def [website.validation.validate_login](#) (username, password)
- def [website.validation.validate_registration](#) (username, password1, password2, email)

7.11 views.py File Reference

Namespaces

- [website.views](#)

Functions

- def [website.views.index](#) (request)
- def [website.views.bid_page](#) (request, auction_id)
- def [website.views.comment](#) (request, auction_id)
- def [website.views.raise_bid](#) (request, auction_id)
- def [website.views.register_page](#) (request)
- def [website.views.watchlist](#) (request, auction_id)
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- def [website.views.balance](#) (request)
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