

ExpenShare

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Chapter 1

Main Page

Authors

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Date

11/26/2014

ExpenShare is an online application designed to help people split costs and share expenses. You can now create one or more group(s) with your friends and log your transactions, then let ExpenShare do the work and calculate how much each group member owes each other. This application can be used for roommates to split living expenses, friends to split travel costs, or any other necessary use!

Chapter 2

Namespace Index

2.1 Packages

Here are the packages with brief descriptions (if available):

forms	11
models	11
urls	11
views	12

Chapter 3

Hierarchical Index

3.1 Class Hierarchy

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

forms.UserForm.Meta	21
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models.FellowUser	19
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Chapter 4

Class Index

4.1 Class List

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

models.FellowUser	
Django model for fellow user in a group	19
forms.MakeGroupForm	
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Chapter 5

File Index

5.1 File List

Here is a list of all files with brief descriptions:

/home/user/doxygen/ forms.py	
Django forms for taking input from ExpenShare users	29
/home/user/doxygen/ models.py	
Django models for ExpenShare	30
/home/user/doxygen/ urls.py	
Url map for ExpenShare	30
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Each view handles various http requests	31

Chapter 6

Namespace Documentation

6.1 forms Namespace Reference

Classes

- class [UserForm](#)
a form for creating a user
- class [PayForm](#)
a form for entering a payment amount and description
- class [MakeGroupForm](#)
a form for creating a group

6.2 models Namespace Reference

Classes

- class [FellowUser](#)
django model for fellow user in a group
- class [MemberView](#)
django model for viewing the members in a group
- class [PaymentLog](#)
django model for the payment log as entered by an user
- class [PayGroup](#)
django model for a paygroup of users
- class [PayUser](#)
a django model for an user which is a member of paygroups

6.3 urls Namespace Reference

Variables

- tuple [urlpatterns](#)
contains all the url tuples for the ExpenShare webpage

6.3.1 Variable Documentation

6.3.1.1 tuple `urls.urlpatterns`

Initial value:

```
1 = patterns('',
2     url(r'^$', views.index, name='index'),
3     url(r'^home/$', views.home, name='home'),
4     url(r'^history/$', views.history, name='history'),
5     url(r'^register/$', views.register, name='register'),
6     url(r'^add_payform/$', views.add_payform, name='add_payform'),
7     url(r'^add_groupform/$', views.add_groupform, name='add_groupform'),
8     url(r'^joingroup_form/$', views.joingroup_form, name='joingroup_form'),
9     url(r'^removePayForm/$', views.removePayForm, name='removePayForm'),
10    url(r'^leavegroup/$', views.leavegroup, name='leavegroup'),
11    url(r'^login/$', views.userLogin, name='login'),
12    url(r'^logout/$', views.userLogout, name='logout'),
13    url(r'^confirmPayment/$', views.confirmPayment, name='confirmPayment'))
```

contains all the url tuples for the ExpenShare webpage

6.4 views Namespace Reference

Functions

- def [index](#)
default ExpenShare page
- def [home](#)
home page of ExpenShare
- def [history](#)
history of expenses
- def [register](#)
view for registering new users
- def [add_groupform](#)
creates a group
- def [add_payform](#)
adds a payment
- def [joingroup_form](#)
form for user to join a group
- def [leavegroup](#)
leaves a group
- def [userLogin](#)
logs an user in
- def [userLogout](#)
handles user logout
- def [confirmPayment](#)
confirms payment made by an user
- def [removePayForm](#)
removes a payment

6.4.1 Function Documentation

6.4.1.1 `def views.add_groupform (request)`

creates a group

Parameters

<i>request</i>	an http request from ExpenShare
----------------	---------------------------------

Returns

redirects home, passes an error if one occurred

6.4.1.2 `def views.add_payform (request)`

adds a payment

Parameters

<i>request</i>	an http request from ExpenShare
----------------	---------------------------------

Returns

redirects to expense history, if an error occurred redirects home

6.4.1.3 `def views.confirmPayment (request)`

confirms payment made by an user

Parameters

<i>request</i>	an http request from ExpenShare
----------------	---------------------------------

Returns

redirects user to their homepage, will pass an error if one occurred

6.4.1.4 `def views.history (request)`

history of expenses

Parameters

<i>request</i>	an http request from ExpenShare
----------------	---------------------------------

Returns

directs to expense history unless user cannot access that group

6.4.1.5 `def views.home (request)`

home page of ExpenShare

Parameters

<i>request</i>	an http request from ExpenShare
----------------	---------------------------------

Returns

redirects to home page

6.4.1.6 `def views.index (request)`

default ExpenShare page

Parameters

<i>request</i>	an http request from ExpenShare
----------------	---------------------------------

Returns

redirects to login

6.4.1.7 `def views.joingroup_form (request)`

form for user to join a group

Parameters

<i>request</i>	an http request from ExpenShare
----------------	---------------------------------

Returns

redirects user back to their homepage with the group joined or passes an error

6.4.1.8 `def views.leavegroup (request)`

leaves a group

Parameters

<i>request</i>	an http request from ExpenShare
----------------	---------------------------------

Returns

directs user to their homepage with group removed, passes an error if one occurred

6.4.1.9 `def views.register (request)`

view for registering new users

Parameters

<i>request</i>	an http request from ExpenShare
----------------	---------------------------------

Returns

redirects to next step in registration unless an error occurred

6.4.1.10 `def views.removePayForm (request)`

removes a payment

Parameters

<i>request</i>	an http request from ExpenShare
----------------	---------------------------------

Returns

redirect user to the expense history, passes an error if one occurred

errors include trying to delete someone else's payment or a payment that doesn't exist

6.4.1.11 `def views.userLogin (request)`

logs an user in

Parameters

<i>request</i>	an http request from ExpenShare
----------------	---------------------------------

Returns

redirects user to their homepage, passes an error if one occurred

errors include logging into an account that is no longer active

6.4.1.12 `def views.userLogout (request)`

handles user logout

Parameters

<i>request</i>	an http request from ExpenShare
----------------	---------------------------------

Returns

http redirect to the homepage

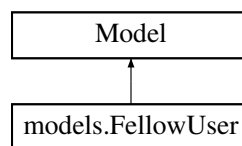
Chapter 7

Class Documentation

7.1 models.FellowUser Class Reference

django model for fellow user in a group

Inheritance diagram for models.FellowUser:



Public Member Functions

- `def __unicode__`
gets model's information in unicode string format

Static Public Attributes

- tuple `user` = `models.ForeignKey(User)`
- tuple `owed` = `models.DecimalField(max_digits=11, decimal_places=2, default=0)`

7.1.1 Detailed Description

django model for fellow user in a group

7.1.2 Member Function Documentation

7.1.2.1 `def models.FellowUser.__unicode__(self)`

gets model's information in unicode string format

Returns

the fellow user's username

7.1.3 Member Data Documentation

7.1.3.1 tuple `models.FellowUser.owed = models.DecimalField(max_digits=11, decimal_places=2, default=0)` `[static]`

7.1.3.2 tuple `models.FellowUser.user = models.ForeignKey(User)` `[static]`

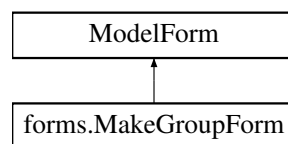
The documentation for this class was generated from the following file:

- </home/user/doxygen/models.py>

7.2 forms.MakeGroupForm Class Reference

a form for creating a group

Inheritance diagram for `forms.MakeGroupForm`:



Classes

- class [Meta](#)
meta defines corresponding model (PayGroup) and fields

Static Public Attributes

- tuple `name = forms.CharField(max_length=20, label = 'Group Name')`
- tuple `description = forms.CharField(max_length=50, label = 'Group Description', widget=forms.TextInput(attrs={'size':37}))`
- tuple `passcode = forms.CharField(max_length=16, label = 'Group Passcode', widget=forms.PasswordInput())`

7.2.1 Detailed Description

a form for creating a group

[MakeGroupForm](#) requires a group name, description, and passcode

7.2.2 Member Data Documentation

7.2.2.1 tuple `forms.MakeGroupForm.description = forms.CharField(max_length=50, label = 'Group Description', widget=forms.TextInput(attrs={'size':37}))` `[static]`

7.2.2.2 tuple `forms.MakeGroupForm.name = forms.CharField(max_length=20, label = 'Group Name')` `[static]`

7.2.2.3 tuple `forms.MakeGroupForm.passcode = forms.CharField(max_length=16, label = 'Group Passcode', widget=forms.PasswordInput())` `[static]`

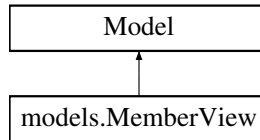
The documentation for this class was generated from the following file:

- </home/user/doxygen/forms.py>

7.3 models.MemberView Class Reference

django model for viewing the members in a group

Inheritance diagram for models.MemberView:



Public Member Functions

- `def __unicode__`
gets model's information in unicode string format

Static Public Attributes

- tuple `user` = `models.ForeignKey(User)`
- tuple `netOwed` = `models.DecimalField(max_digits=11, decimal_places=2, default=0)`
- tuple `fellows` = `models.ManyToManyField(FellowUser)`

7.3.1 Detailed Description

django model for viewing the members in a group

7.3.2 Member Function Documentation

7.3.2.1 `def models.MemberView.__unicode__(self)`

gets model's information in unicode string format

Returns

the member's username

7.3.3 Member Data Documentation

7.3.3.1 tuple `models.MemberView.fellows` = `models.ManyToManyField(FellowUser)` [static]

7.3.3.2 tuple `models.MemberView.netOwed` = `models.DecimalField(max_digits=11, decimal_places=2, default=0)` [static]

7.3.3.3 tuple `models.MemberView.user` = `models.ForeignKey(User)` [static]

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

- `/home/user/doxygen/models.py`

7.4 forms.UserForm.Meta Class Reference

meta defines corresponding model (User) and fields

Static Public Attributes

- `model = User`
- tuple `fields = ('email', 'username', 'password')`

7.4.1 Detailed Description

meta defines corresponding model (User) and fields

7.4.2 Member Data Documentation

7.4.2.1 `tuple forms.UserForm.Meta.fields = ('email', 'username', 'password')` `[static]`

7.4.2.2 `forms.UserForm.Meta.model = User` `[static]`

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

- `/home/user/doxygen/forms.py`

7.5 forms.PayForm.Meta Class Reference

meta defines corresponding model (PaymentLog) and fields

Static Public Attributes

- `model = models.PaymentLog`
- tuple `fields = ('amount', 'description')`

7.5.1 Detailed Description

meta defines corresponding model (PaymentLog) and fields

7.5.2 Member Data Documentation

7.5.2.1 `tuple forms.PayForm.Meta.fields = ('amount', 'description')` `[static]`

7.5.2.2 `forms.PayForm.Meta.model = models.PaymentLog` `[static]`

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

- `/home/user/doxygen/forms.py`

7.6 forms.MakeGroupForm.Meta Class Reference

meta defines corresponding model (PayGroup) and fields

Static Public Attributes

- `model = models.PayGroup`
- tuple `fields = ('name', 'description', 'passcode')`

7.6.1 Detailed Description

meta defines corresponding model (PayGroup) and fields

7.6.2 Member Data Documentation

7.6.2.1 tuple `forms.MakeGroupForm.Meta.fields` = ('name', 'description', 'passcode') `[static]`

7.6.2.2 `forms.MakeGroupForm.Meta.model` = `models.PayGroup` `[static]`

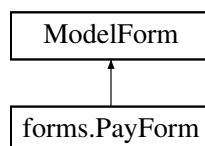
The documentation for this class was generated from the following file:

- [/home/user/doxygen/forms.py](#)

7.7 forms.PayForm Class Reference

a form for entering a payment amount and description

Inheritance diagram for forms.PayForm:



Classes

- class [Meta](#)
meta defines corresponding model (PaymentLog) and fields

Static Public Attributes

- tuple [amount](#) = `forms.DecimalField(max_digits=11, decimal_places=2, label = 'Amount')`
- tuple [description](#) = `forms.CharField(max_length=50, label = 'Description')`

7.7.1 Detailed Description

a form for entering a payment amount and description

7.7.2 Member Data Documentation

7.7.2.1 tuple `forms.PayForm.amount` = `forms.DecimalField(max_digits=11, decimal_places=2, label = 'Amount')` `[static]`

7.7.2.2 tuple `forms.PayForm.description` = `forms.CharField(max_length=50, label = 'Description')` `[static]`

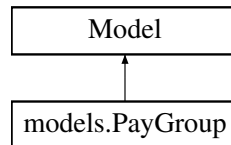
The documentation for this class was generated from the following file:

- [/home/user/doxygen/forms.py](#)

7.8 models.PayGroup Class Reference

django model for a paygroup of users

Inheritance diagram for models.PayGroup:



Public Member Functions

- def `__unicode__`
gets model's information in unicode string format

Static Public Attributes

- tuple `name` = models.CharField(max_length=20, default="", unique=True)
- tuple `description` = models.CharField(max_length=50, default="")
- tuple `members` = models.ManyToManyField(User)
- tuple `passcode` = models.CharField(max_length=16, default="")
- tuple `paymentLogs` = models.ManyToManyField(PaymentLog)
- tuple `memberViews` = models.ManyToManyField(MemberView)
- tuple `groupSize` = models.IntegerField(default=1)

7.8.1 Detailed Description

django model for a paygroup of users

7.8.2 Member Function Documentation

7.8.2.1 def models.PayGroup.__unicode__(self)

gets model's information in unicode string format

Returns

the name of the paygroup

7.8.3 Member Data Documentation

7.8.3.1 tuple models.PayGroup.description = models.CharField(max_length=50, default="") [static]

7.8.3.2 tuple models.PayGroup.groupSize = models.IntegerField(default=1) [static]

7.8.3.3 tuple models.PayGroup.members = models.ManyToManyField(User) [static]

7.8.3.4 tuple models.PayGroup.memberViews = models.ManyToManyField(MemberView) [static]

7.8.3.5 tuple models.PayGroup.name = models.CharField(max_length=20, default="", unique=True) [static]

7.8.3.6 tuple `models.PayGroup.passcode = models.CharField(max_length=16, default="")` [static]

7.8.3.7 tuple `models.PayGroup.paymentLogs = models.ManyToManyField(PaymentLog)` [static]

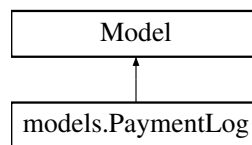
The documentation for this class was generated from the following file:

- </home/user/doxygen/models.py>

7.9 models.PaymentLog Class Reference

django model for the payment log as entered by an user

Inheritance diagram for models.PaymentLog:



Public Member Functions

- def `__unicode__`
gets model's information in unicode string format

Static Public Attributes

- tuple `amount` = `models.DecimalField(max_digits=11, decimal_places=2, default=0)`
- tuple `description` = `models.CharField(max_length=50, default="")`
- tuple `date` = `models.DateField(default=time.strftime("%Y-%m-%d"))`
- tuple `user` = `models.ForeignKey(User)`
- tuple `contested` = `models.BooleanField(default=False)`
- tuple `contestedMessage` = `models.CharField(max_length=140, default="")`

7.9.1 Detailed Description

django model for the payment log as entered by an user

7.9.2 Member Function Documentation

7.9.2.1 def `models.PaymentLog.__unicode__(self)`

gets model's information in unicode string format

Returns

description of the payment log

7.9.3 Member Data Documentation

7.9.3.1 tuple `models.PaymentLog.amount` = `models.DecimalField(max_digits=11, decimal_places=2, default=0)` `[static]`

7.9.3.2 tuple `models.PaymentLog.contested` = `models.BooleanField(default=False)` `[static]`

7.9.3.3 tuple `models.PaymentLog.contestedMessage` = `models.CharField(max_length=140, default="")` `[static]`

7.9.3.4 tuple `models.PaymentLog.date` = `models.DateField(default=time.strftime("%Y-%m-%d"))` `[static]`

7.9.3.5 tuple `models.PaymentLog.description` = `models.CharField(max_length=50, default="")` `[static]`

7.9.3.6 tuple `models.PaymentLog.user` = `models.ForeignKey(User)` `[static]`

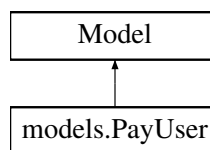
The documentation for this class was generated from the following file:

- </home/user/doxygen/models.py>

7.10 models.PayUser Class Reference

a django model for an user which is a member of paygroups

Inheritance diagram for `models.PayUser`:



Public Member Functions

- def `__unicode__`
gets model's information in unicode string format

Static Public Attributes

- tuple `userKey` = `models.ForeignKey(User)`
- tuple `payGroups` = `models.ManyToManyField(PayGroup)`

7.10.1 Detailed Description

a django model for an user which is a member of paygroups

7.10.2 Member Function Documentation

7.10.2.1 def `models.PayUser.__unicode__(self)`

gets model's information in unicode string format

Returns

the user's key

7.10.3 Member Data Documentation

7.10.3.1 `tuple models.PayUser.payGroups = models.ManyToManyField(PayGroup)` [static]

7.10.3.2 `tuple models.PayUser.userKey = models.ForeignKey(User)` [static]

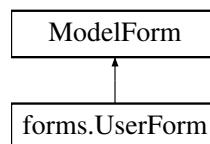
The documentation for this class was generated from the following file:

- [/home/user/doxygen/models.py](#)

7.11 forms.UserForm Class Reference

a form for creating a user

Inheritance diagram for forms.UserForm:



Classes

- class [Meta](#)
meta defines corresponding model (User) and fields

Static Public Attributes

- tuple [password](#) = `forms.CharField(widget=forms.PasswordInput())`

7.11.1 Detailed Description

a form for creating a user

[UserForm](#) requires a password and username

7.11.2 Member Data Documentation

7.11.2.1 `tuple forms.UserForm.password = forms.CharField(widget=forms.PasswordInput())` [static]

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

- [/home/user/doxygen/forms.py](#)

Chapter 8

File Documentation

8.1 /home/user/doxygen/forms.py File Reference

django forms for taking input from ExpenShare users

Classes

- class [forms.UserForm](#)
a form for creating a user
- class [forms.UserForm.Meta](#)
meta defines corresponding model (User) and fields
- class [forms.PayForm](#)
a form for entering a payment amount and description
- class [forms.PayForm.Meta](#)
meta defines corresponding model (PaymentLog) and fields
- class [forms.MakeGroupForm](#)
a form for creating a group
- class [forms.MakeGroupForm.Meta](#)
meta defines corresponding model (PayGroup) and fields

Namespaces

- [forms](#)

8.1.1 Detailed Description

django forms for taking input from ExpenShare users

Authors

Taylor Andrews, Ian Char, Brennan McConnell

Date

11/26/2014

Note

django Meta class defines non-field aspects of django forms

8.2 /home/user/doxygen/mainpage.dox File Reference

8.3 /home/user/doxygen/models.py File Reference

django models for ExpenShare

Classes

- class [models.FellowUser](#)
django model for fellow user in a group
- class [models.MemberView](#)
django model for viewing the members in a group
- class [models.PaymentLog](#)
django model for the payment log as entered by an user
- class [models.PayGroup](#)
django model for a paygroup of users
- class [models.PayUser](#)
a django model for an user which is a member of paygroups

Namespaces

- [models](#)

8.3.1 Detailed Description

django models for ExpenShare

Authors

Taylor Andrews, Ian Char, Brennan McConnell

Date

11/26/2014

Note

the **unicode** function allows the models to communicate with Django admin

8.4 /home/user/doxygen/urls.py File Reference

url map for ExpenShare

Namespaces

- [urls](#)

Variables

- tuple [urls.urlpatterns](#)
contains all the url tuples for the ExpenShare webpage

8.4.1 Detailed Description

url map for ExpenShare

Authors

Taylor Andrews, Ian Char, Brennan McConnell

Date

11/25/2014

urlpatterns uses regular expressions to match urls and pass them to views

8.5 /home/user/doxygen/views.py File Reference

each view handles various http requests

Namespaces

- [views](#)

Functions

- def [views.index](#)
default ExpenShare page
- def [views.home](#)
home page of ExpenShare
- def [views.history](#)
history of expenses
- def [views.register](#)
view for registering new users
- def [views.add_groupform](#)
creates a group
- def [views.add_payform](#)
adds a payment
- def [views.joingroup_form](#)
form for user to join a group
- def [views.leavegroup](#)
leaves a group
- def [views.userLogin](#)
logs an user in
- def [views.userLogout](#)
handles user logout
- def [views.confirmPayment](#)
confirms payment made by an user
- def [views.removePayForm](#)
removes a payment

8.5.1 Detailed Description

each view handles various http requests

Authors

Taylor Andrews, Ian Char, Brennan McConnell

Date

11/26/2014

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