Personal Expense Tracker

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1.1 Namespace List

Here is a list of all namespaces with brief descriptions:

graphs 4

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graphs.views 4

ocr 5

ocr.models 5

ocr.views 5

SI_proj 5

SI_proj.models 5

SI_proj.views 6

split 7

split.models 7

split.views 7

txn 8

txn.models 8

txn.views 9

2 Hierarchical Index

2.1 Class Hierarchy

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

Form

txn.views.FileUploadForm 10

Model

SI_proj.models.Profile 18

split.models.Group 11

split.models.GroupTransaction 16

txn.models.Transaction 20

CreateView

split.views.GroupCreate 13

split.views.TransCreate 27

txn.views.TransactionCreate 22
DeleteView

split.views.GroupDelete 15

txn.views.TransactionDelete 24
UpdateView

txn.views.TransactionUpdate 25
View

SI_proj.views.UserLoginFormView 28

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3 Class Index

3.1 Class List

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

txn.views.FileUploadForm 10

split.models.Group
Defines the structure of the table used for storing Group 11

split.views.GroupCreate
creates new entry in Group table 13

split.views.GroupDelete
removes a Group entry from the table 15

split.models.GroupTransaction
Defines the structure of the table used for storing GroupTransaction 16

SI_proj.models.Profile
Defines the structure of the table used for storing User Profile 18

txn.models.Transaction
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txn.views.TransactionCreate
creates new entry in transaction table 22

txn.views.TransactionDelete
removes a transaction entry from the table 24

txn.views.TransactionUpdate
updates pre-existing transaction 25

split.views.TransCreate
adds Transaction detail in a Group as a whole as well in each of the participant ledger 27

SI_proj.views.UserLoginFormView
Login for User 28

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SignUp for User 30

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4.1 File List

Here is a list of all files with brief descriptions:

graphs/models.py 32

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ocr/models.py 32

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SI_proj/models.py 32

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txn/models.py 33

txn/views.py 34

5 Namespace Documentation

5.1 graphs Namespace Reference

Namespaces

- models
- views

5.2 graphs.models Namespace Reference

5.3 graphs.views Namespace Reference

Functions

- def analysis (request)

  graphical visualization Extract the information of logged in user and calculate its expenditure in each domain

5.3.1 Function Documentation

5.3.1.1 analysis()

```
def graphs.views.analysis (
              request )
```

graphical visualization Extract the information of logged in user and calculate its expenditure in each domain

Returns

path to analysis page along with expenditure for each category

5.4 ocr Namespace Reference

Namespaces

- models
- views

5.5 ocr.models Namespace Reference

5.6 ocr.views Namespace Reference

Functions

- def ocr (request)

5.6.1 Function Documentation

5.6.1.1 ocr()

```
def ocr.views.ocr (
              request )
```

5.7 SI_proj Namespace Reference

Namespaces

- models
- views

5.8 SI_proj.models Namespace Reference

Classes

- class Profile

  Defines the structure of the table used for storing User Profile

5.9 Sl_proj.views Namespace Reference

Classes

- class UserLoginFormView
  Login for User
- class UserSignupFormView
  SignUp for User

Functions

- def home (request)
  Landing page.
- def user_logout (request)
  end the sessions for a User
- def profile (request)
  User profile description

5.9.1 Function Documentation

5.9.1.1 home()

```
def Sl_proj.views.home (
              request )
```

Landing page.

5.9.1.2 profile()

```
def Sl_proj.views.profile (
              request )
```

User profile description

Returns

path to profile page along with profile information

5.9.1.3 user_logout()

```
def Sl_proj.views.user_logout (
              request )
```

end the sessions for a User

Returns

path to home page

5.10 split Namespace Reference

Namespaces

- models
- views

5.11 split.models Namespace Reference

Classes

- class Group

  Defines the structure of the table used for storing Group.
- class GroupTransaction

  Defines the structure of the table used for storing GroupTransaction.

5.12 split.views Namespace Reference

Classes

- class GroupCreate

  creates new entry in Group table
- class GroupDelete

  removes a Group entry from the table
- class TransCreate

  adds Transaction detail in a Group as a whole as well in each of the participant ledger.

Functions

- def optimize (request, pk)

  Optimizes cash-flow in a Group
- def settle (request, pk)

  settles debt
- def groups (request)

  shows the Group in which User is enrolled

5.12.1 Function Documentation

5.12.1.1 groups()

```
def split.views.groups (
              request )
```

shows the Group in which User is enrolled

Returns

path to mygroups page

5.12.1.2 optimize()

```
def split.views.optimize (
              request,
              pk )
```

Optimizes cash-flow in a Group

Returns

path to group transaction page along with summary of GroupTransaction

5.12.1.3 settle()

```
def split.views.settle (
              request,
              pk )
```

settles debt

Returns

path to Group page

5.13 txn Namespace Reference

Namespaces

- models
- views

5.14 txn.models Namespace Reference

Classes

- class Transaction

  Defines the structure of the table used for storing Transaction.

Variables

- tuple CATEGORY_CHOICES

5.14.1 Variable Documentation

5.14.1.1 CATEGORY_CHOICES

```
tuple txn.models.CATEGORY_CHOICES
```

Initial value:

```
1 =  (('Food', 'Food'), ('Shopping', 'Shopping'), ('Health and Fitness', 'Health and Fitness'), (
2     'Entertainment', 'Entertainment'), ('Travel', 'Travel'), ('Rent', 'Rent'), ('Gifts', 'Gifts'), ('Other'
      , 'Other'))
```

5.15 txn.views Namespace Reference

Classes

- class FileUploadForm
- class TransactionCreate

  creates new entry in transaction table
- class TransactionDelete

  removes a transaction entry from the table
- class TransactionUpdate

  updates pre-existing transaction

Functions

- def crop_ocr (request)

  handles AJAX request and applies OCR on image
- def index (request)

  extracts transaction information of logged in user
- def detail (request, pk)

  information about particular transaction

5.15.1 Function Documentation

5.15.1.1 crop_ocr()

```
def txn.views.crop_ocr (
              request )
```

handles AJAX request and applies OCR on image

Returns

String amount-detail of the receipts

5.15.1.2 detail()

```
def txn.views.detail (
              request,
              pk )
```

information about particular transaction

Returns

complete transaction detail or Error page

5.15.1.3 index()

```
def txn.views.index (
              request )
```

extracts transaction information of logged in user

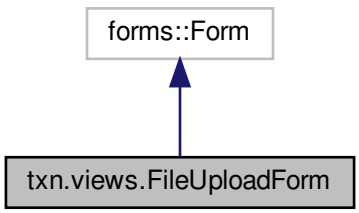
Returns

path to ledger page along with user transaction details

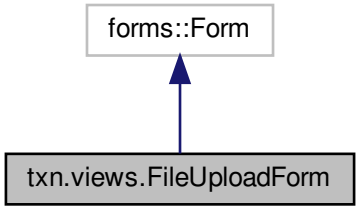
6 Class Documentation

6.1 txn.views.FileUploadForm Class Reference

Inheritance diagram for txn.views.FileUploadForm:



Collaboration diagram for txn.views.FileUploadForm:



Static Public Attributes

- file_source = forms.FileField()

6.1.1 Member Data Documentation

6.1.1.1 file_source

```
txn.views.FileUploadForm.file_source = forms.FileField()  [static]
```

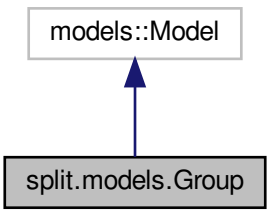
The documentation for this class was generated from the following file:

- txn/views.py

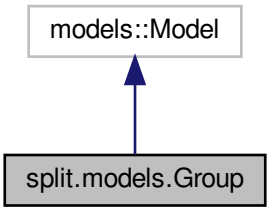
6.2 split.models.Group Class Reference

Defines the structure of the table used for storing Group.

Inheritance diagram for split.models.Group:



Collaboration diagram for split.models.Group:



Public Member Functions

- def __str__ (self)

  function which returns summary for a particular Group
- def get_absolute_url (self)

  function which redirects to Group page

Static Public Attributes

- gname = models.CharField(max_length=40)
- participants = models.ManyToManyField(User)

6.2.1 Detailed Description

Defines the structure of the table used for storing Group.

6.2.2 Member Function Documentation

6.2.2.1 __str__()

```
def split.models.Group.__str__ (
              self )
```

function which returns summary for a particular Group

Returns

String Group name

6.2.2.2 get_absolute_url()

```
def split.models.Group.get_absolute_url (
              self )
```

function which redirects to Group page

Returns

path to Group page

6.2.3 Member Data Documentation

6.2.3.1 gname

```
split.models.Group.gname = models.CharField(max_length=40)  [static]
```

6.2.3.2 participants

```
split.models.Group.participants = models.ManyToManyField(User)  [static]
```

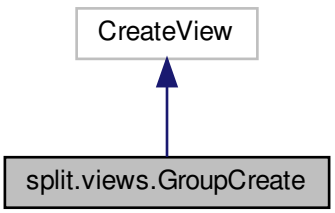
The documentation for this class was generated from the following file:

- split/models.py

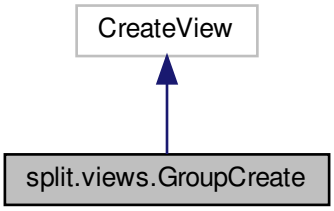
6.3 split.views.GroupCreate Class Reference

creates new entry in Group table

Inheritance diagram for split.views.GroupCreate:



Collaboration diagram for split.views.GroupCreate:



Public Member Functions

- def form_valid (self, form)

Static Public Attributes

- model = Group
- list fields = ['gname', 'participants']

6.3.1 Detailed Description

creates new entry in Group table

6.3.2 Member Function Documentation

6.3.2.1 form_valid()

```
def split.views.GroupCreate.form_valid (
              self,
              form )
```

6.3.3 Member Data Documentation

6.3.3.1 fields

```
list split.views.GroupCreate.fields = ['gname', 'participants']  [static]
```

6.3.3.2 model

```
split.views.GroupCreate.model = Group  [static]
```

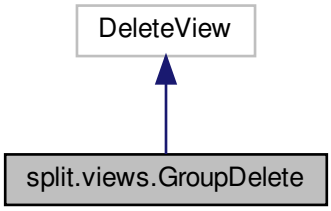
The documentation for this class was generated from the following file:

- split/views.py

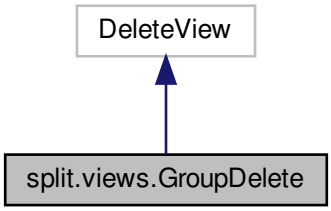
6.4 split.views.GroupDelete Class Reference

removes a Group entry from the table

Inheritance diagram for split.views.GroupDelete:



Collaboration diagram for split.views.GroupDelete:



Static Public Attributes

- model = Group
- success_url = reverse_lazy('groups')

6.4.1 Detailed Description

removes a Group entry from the table

6.4.2 Member Data Documentation

6.4.2.1 model

```
split.views.GroupDelete.model = Group  [static]
```

6.4.2.2 success_url

```
split.views.GroupDelete.success_url = reverse_lazy('groups')  [static]
```

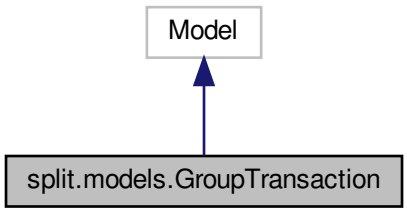
The documentation for this class was generated from the following file:

- split/views.py

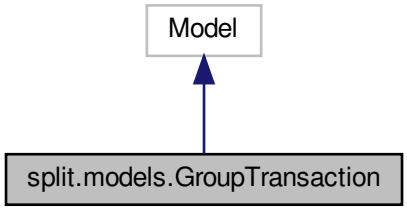
6.5 split.models.GroupTransaction Class Reference

Defines the structure of the table used for storing GroupTransaction.

Inheritance diagram for split.models.GroupTransaction:



Collaboration diagram for split.models.GroupTransaction:



Public Member Functions

- def __str__ (self)

  function which returns summary for a transaction in a Group

Static Public Attributes

- owe = models.ForeignKey(User, on_delete=models.CASCADE, related_name='owe')
- ewo = models.ForeignKey(User, on_delete=models.CASCADE, related_name='ewo')
- amount = models.FloatField()
- gname = models.ForeignKey(Group, on_delete=models.CASCADE)

6.5.1 Detailed Description

Defines the structure of the table used for storing GroupTransaction.

6.5.2 Member Function Documentation

6.5.2.1 __str__()

```
def split.models.GroupTransaction.__str__ (
              self )
```

function which returns summary for a transaction in a Group

Returns

String Borrower-Amount-Lender-Group Name

6.5.3 Member Data Documentation

6.5.3.1 amount

```
split.models.GroupTransaction.amount = models.FloatField()  [static]
```

6.5.3.2 ewo

```
split.models.GroupTransaction.ewo = models.ForeignKey(User, on_delete=models.CASCADE, related↩
_name='ewo')  [static]
```

6.5.3.3 gname

```
split.models.GroupTransaction.gname = models.ForeignKey(Group, on_delete=models.CASCADE)  [static]
```

6.5.3.4 owe

```
split.models.GroupTransaction.owe = models.ForeignKey(User, on_delete=models.CASCADE, related↩
_name='owe')  [static]
```

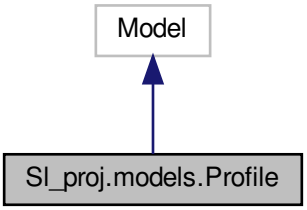
The documentation for this class was generated from the following file:

- split/models.py

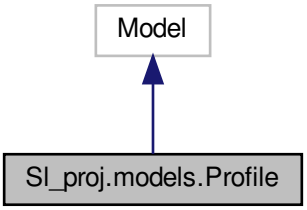
6.6 Sl_proj.models.Profile Class Reference

Defines the structure of the table used for storing User Profile

Inheritance diagram for Sl_proj.models.Profile:



Collaboration diagram for Sl_proj.models.Profile:



Static Public Attributes

- user = models.OneToOneField(User, on_delete=models.CASCADE)
- First_Name = models.CharField(max_length=30)
- Last_Name = models.CharField(max_length=30)
- Annual_Income = models.FloatField(null=True, blank=True)
- Mobile_Number = models.CharField(max_length=10)
- Profile_Picture = models.FileField(blank=True)

6.6.1 Detailed Description

Defines the structure of the table used for storing User Profile

6.6.2 Member Data Documentation

6.6.2.1 Annual_Income

```
Sl_proj.models.Profile.Annual_Income = models.FloatField(null=True, blank=True)  [static]
```

6.6.2.2 First_Name

```
Sl_proj.models.Profile.First_Name = models.CharField(max_length=30)  [static]
```

6.6.2.3 Last_Name

```
Sl_proj.models.Profile.Last_Name = models.CharField(max_length=30)  [static]
```

6.6.2.4 Mobile_Number

```
Sl_proj.models.Profile.Mobile_Number = models.CharField(max_length=10)  [static]
```

6.6.2.5 Profile_Picture

```
Sl_proj.models.Profile.Profile_Picture = models.FileField(blank=True)  [static]
```

6.6.2.6 user

```
Sl_proj.models.Profile.user = models.OneToOneField(User, on_delete=models.CASCADE)  [static]
```

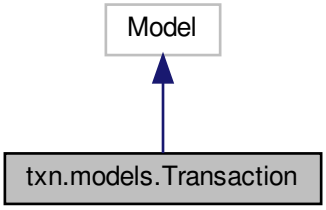
The documentation for this class was generated from the following file:

- Sl_proj/models.py

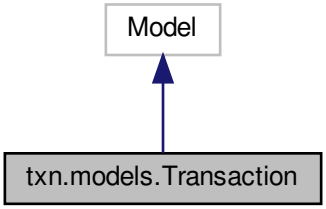
6.7 txn.models.Transaction Class Reference

Defines the structure of the table used for storing Transaction.

Inheritance diagram for txn.models.Transaction:



Collaboration diagram for txn.models.Transaction:



Public Member Functions

- def getr_absolute_url (self)

  function which redirects to index page
- def __str__ (self)

  function which returns summary for a particular Transaction

Static Public Attributes

- details = models.CharField(max_length=100)
- amount = models.FloatField()
- category = models.CharField(max_length=18, choices=CATEGORY_CHOICES)
- user = models.ForeignKey(User, on_delete=models.PROTECT)
- bill = models.FileField(blank=True)
- timestamp = models.DateTimeField(auto_now=True)

6.7.1 Detailed Description

Defines the structure of the table used for storing Transaction.

6.7.2 Member Function Documentation

6.7.2.1 __str__()

```
def txn.models.Transaction.__str__ (
              self )
```

function which returns summary for a particular Transaction

Returns

String Transaction details and amount

6.7.2.2 getr_absolute_url()

```
def txn.models.Transaction.getr_absolute_url (
              self )
```

function which redirects to index page

Returns

path to index page

6.7.3 Member Data Documentation

6.7.3.1 amount

```
txn.models.Transaction.amount = models.FloatField()  [static]
```

6.7.3.2 bill

```
txn.models.Transaction.bill = models.FileField(blank=True)  [static]
```

6.7.3.3 category

```
txn.models.Transaction.category = models.CharField(max_length=18, choices=CATEGORY_CHOICES)
[static]
```

6.7.3.4 details

```
txn.models.Transaction.details = models.CharField(max_length=100)  [static]
```

6.7.3.5 timestamp

```
txn.models.Transaction.timestamp = models.DateTimeField(auto_now=True)  [static]
```

6.7.3.6 user

```
txn.models.Transaction.user = models.ForeignKey(User, on_delete=models.PROTECT)  [static]
```

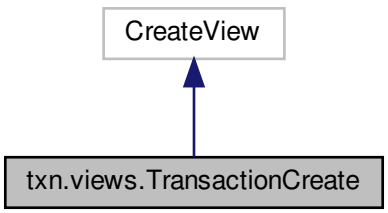
The documentation for this class was generated from the following file:

- txn/models.py

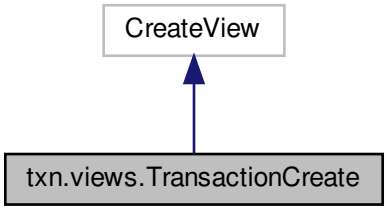
6.8 txn.views.TransactionCreate Class Reference

creates new entry in transaction table

Inheritance diagram for txn.views.TransactionCreate:



Collaboration diagram for txn.views.TransactionCreate:



Public Member Functions

- def form_valid (self, form)
  validated transaction form

Static Public Attributes

- model = Transaction
- list fields = ['bill', 'details', 'amount', 'category']

6.8.1 Detailed Description

creates new entry in transaction table

6.8.2 Member Function Documentation

6.8.2.1 form_valid()

```
def txn.views.TransactionCreate.form_valid (
              self,
              form )
```

validated transaction form

6.8.3 Member Data Documentation

6.8.3.1 fields

```
list txn.views.TransactionCreate.fields = ['bill', 'details', 'amount', 'category']  [static]
```

6.8.3.2 model

```
txn.views.TransactionCreate.model = Transaction  [static]
```

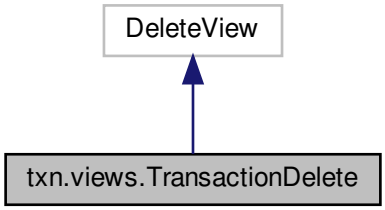
The documentation for this class was generated from the following file:

- txn/views.py

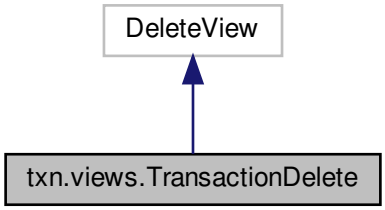
6.9 txn.views.TransactionDelete Class Reference

removes a transaction entry from the table

Inheritance diagram for txn.views.TransactionDelete:



Collaboration diagram for txn.views.TransactionDelete:



Static Public Attributes

- model = Transaction
- success_url = reverse_lazy('index')

6.9.1 Detailed Description

removes a transaction entry from the table

6.9.2 Member Data Documentation

6.9.2.1 model

```
txn.views.TransactionDelete.model = Transaction  [static]
```

6.9.2.2 success_url

```
txn.views.TransactionDelete.success_url = reverse_lazy('index')  [static]
```

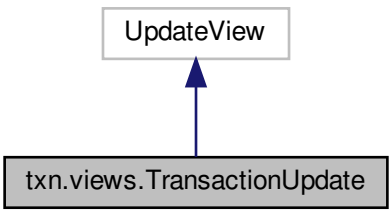
The documentation for this class was generated from the following file:

- txn/views.py

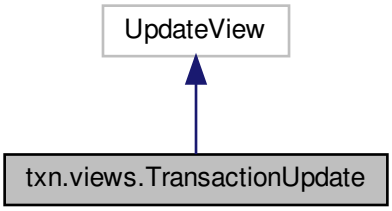
6.10 txn.views.TransactionUpdate Class Reference

updates pre-existing transaction

Inheritance diagram for txn.views.TransactionUpdate:



Collaboration diagram for txn.views.TransactionUpdate:



Static Public Attributes

- model = Transaction
- list fields = ['details', 'amount', 'category', 'bill']

6.10.1 Detailed Description

updates pre-existing transaction

6.10.2 Member Data Documentation

6.10.2.1 fields

```
list txn.views.TransactionUpdate.fields = ['details', 'amount', 'category', 'bill']  [static]
```

6.10.2.2 model

```
txn.views.TransactionUpdate.model = Transaction  [static]
```

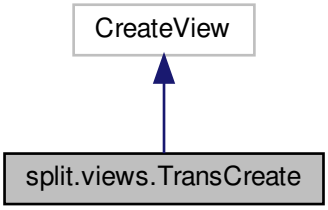
The documentation for this class was generated from the following file:

- txn/views.py

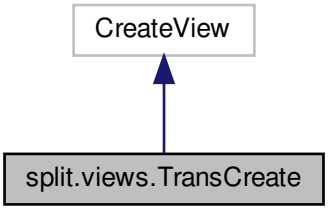
6.11 split.views.TransCreate Class Reference

adds Transaction detail in a Group as a whole as well in each of the participant ledger.

Inheritance diagram for split.views.TransCreate:



Collaboration diagram for split.views.TransCreate:



Public Member Functions

- def form_valid (self, form, kwargs)

Static Public Attributes

- model = Transaction
- list fields = ['details', 'amount', 'category', 'bill']

6.11.1 Detailed Description

adds Transaction detail in a Group as a whole as well in each of the participant ledger.

6.11.2 Member Function Documentation

6.11.2.1 form_valid()

```
def split.views.TransCreate.form_valid (
              self,
              form,
              kwargs )
```

6.11.3 Member Data Documentation

6.11.3.1 fields

```
list split.views.TransCreate.fields = ['details', 'amount', 'category', 'bill']  [static]
```

6.11.3.2 model

```
split.views.TransCreate.model = Transaction  [static]
```

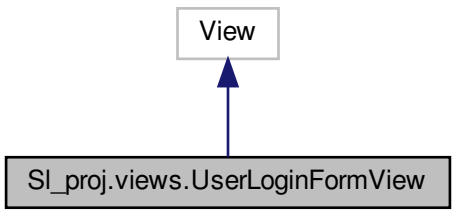
The documentation for this class was generated from the following file:

- split/views.py

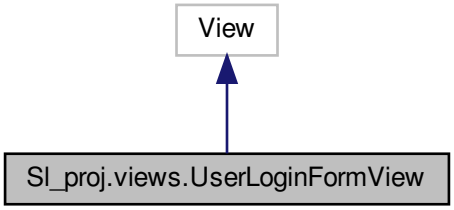
6.12 Sl_proj.views.UserLoginFormView Class Reference

Login for User

Inheritance diagram for Sl_proj.views.UserLoginFormView:



Collaboration diagram for Sl_proj.views.UserLoginFormView:



Public Member Functions

- def get (self, request)
- def post (self, request)

Static Public Attributes

- user_form_class = UserLoginForm
- string template_name = 'registration/login_form.html'

6.12.1 Detailed Description

Login for User

6.12.2 Member Function Documentation

6.12.2.1 get()

```
def Sl_proj.views.UserLoginFormView.get (
              self,
              request )
```

6.12.2.2 post()

```
def Sl_proj.views.UserLoginFormView.post (
              self,
              request )
```

6.12.3 Member Data Documentation

6.12.3.1 template_name

```
string Sl_proj.views.UserLoginFormView.template_name = 'registration/login_form.html'  [static]
```

6.12.3.2 user_form_class

```
Sl_proj.views.UserLoginFormView.user_form_class = UserLoginForm  [static]
```

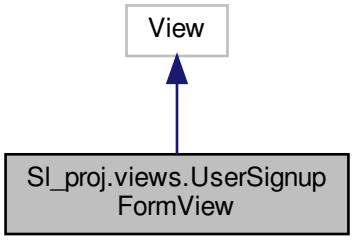
The documentation for this class was generated from the following file:

- Sl_proj/views.py

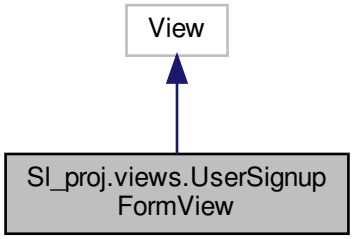
6.13 Sl_proj.views.UserSignupFormView Class Reference

SignUp for User

Inheritance diagram for Sl_proj.views.UserSignupFormView:



Collaboration diagram for Sl_proj.views.UserSignupFormView:



Public Member Functions

- def get (self, request)
- def post (self, request)

Static Public Attributes

- user_form_class = UserSignupForm
- profile_form_class = ProfileForm
- string template_name = 'registration/registration_form.html'

6.13.1 Detailed Description

SignUp for User

6.13.2 Member Function Documentation

6.13.2.1 get()

```
def Sl_proj.views.UserSignupFormView.get (
              self,
              request )
```

6.13.2.2 post()

```
def Sl_proj.views.UserSignupFormView.post (
              self,
              request )
```

6.13.3 Member Data Documentation

6.13.3.1 profile_form_class

```
Sl_proj.views.UserSignupFormView.profile_form_class = ProfileForm  [static]
```

6.13.3.2 template_name

```
string Sl_proj.views.UserSignupFormView.template_name = 'registration/registration_form.html'
[static]
```

6.13.3.3 user_form_class

```
Sl_proj.views.UserSignupFormView.user_form_class = UserSignupForm  [static]
```

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

- Sl_proj/views.py

7 File Documentation

7.1 graphs/models.py File Reference

Namespaces

- graphs.models

7.2 ocr/models.py File Reference

Namespaces

- ocr.models

7.3 Sl_proj/models.py File Reference

Classes

- class Sl_proj.models.Profile

  Defines the structure of the table used for storing User Profile

Namespaces

- Sl_proj.models

7.4 split/models.py File Reference

Classes

- class split.models.Group

  Defines the structure of the table used for storing Group.
- class split.models.GroupTransaction

  Defines the structure of the table used for storing GroupTransaction.

Namespaces

- split.models

7.5 txn/models.py File Reference

Classes

- class txn.models.Transaction

  Defines the structure of the table used for storing Transaction.

Namespaces

- txn.models

Variables

- tuple txn.models.CATEGORY_CHOICES

7.6 graphs/views.py File Reference

Namespaces

- graphs.views

Functions

- def graphs.views.analysis (request)

  graphical visualization Extract the information of logged in user and calculate its expenditure in each domain

7.7 ocr/views.py File Reference

Namespaces

- ocr.views

Functions

- def ocr.views.ocr (request)

7.8 SI_proj/views.py File Reference

Classes

- class SI_proj.views.UserSignupFormView

  SignUp for User
- class SI_proj.views.UserLoginFormView

  Login for User

Namespaces

- Sl_proj.views

Functions

- def Sl_proj.views.home (request)

  Landing page.
- def Sl_proj.views.user_logout (request)

  end the sessions for a User
- def Sl_proj.views.profile (request)

  User profile description

7.9 split/views.py File Reference

Classes

- class split.views.GroupCreate

  creates new entry in Group table
- class split.views.GroupDelete

  removes a Group entry from the table
- class split.views.TransCreate

  adds Transaction detail in a Group as a whole as well in each of the participant ledger.

Namespaces

- split.views

Functions

- def split.views.optimize (request, pk)

  Optimizes cash-flow in a Group
- def split.views.settle (request, pk)

  settles debt
- def split.views.groups (request)

  shows the Group in which User is enrolled

7.10 txn/views.py File Reference

Classes

- class txn.views.FileUploadForm
- class txn.views.TransactionCreate

  creates new entry in transaction table
- class txn.views.TransactionUpdate

  updates pre-existing transaction
- class txn.views.TransactionDelete

  removes a transaction entry from the table

Namespaces

- txn.views

Functions

- def txn.views.crop_ocr (request)

  handles AJAX request and applies OCR on image
- def txn.views.index (request)

  extracts transaction information of logged in user
- def txn.views.detail (request, pk)

  information about particular transaction

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