

SplitApp by Felo

WebApp made in React + RESTful API + Django to allow people to split bills.

Installing

Docker:

1. Install docker <https://docs.docker.com/get-docker/>
2. Clone the repository and inside main folder run the following command:

```
sudo docker compose up
```

Without Docker

1. Install Python3 and the following libraries:

- Django

```
pip install Django
```

- Rest framework

```
pip install djangorestframework
```

- Corsheaders

```
pip install django-cors-headers
```

- Djoser

```
pip install djoser
```

- Rest framework authtoken

```
pip install django-rest-auth-token
```

2. Install NodeJS and npm

3. In folder *backend* type:

```
python manage.py makemigrations
```

```
python manage.py migrate
```

```
python manage.py run
```

4. In folder *frontend* type:

```
npm install
```

```
npm start
```

Features

Every data is stored in the database (handled by Django backend).

SingUp and SignIn

Allows users to create new account or login into an existing account -> data is saved in database through Django. Username and email must be unique + email must be in proper format (checked in backend). No input can be empty (checked in frontend).

The image displays four screenshots of the application's authentication interface, arranged in a 2x2 grid. Each screenshot has a blue header bar with a user icon.

- Top Left (Sign up):** Shows the 'Sign up' form with fields for First Name, Last Name, Username, Email Address, and Password. A checkbox for email notifications is at the bottom. The 'SIGN UP' button is disabled (grey).
- Top Right (Sign up):** Shows the 'Sign up' form with a red error message 'Username already exists' below the Username field. The 'SIGN UP' button is active (blue).
- Bottom Left (Sign in):** Shows the 'Sign in' form with fields for Username and Password. A 'Remember me' checkbox is present. The 'SIGN IN' button is disabled (grey). Below the button are links for 'Forgot password?' and 'Don't have an account? Sign Up'.
- Bottom Right (Sign in):** Shows the 'Sign in' form with a red error message 'Invalid data!' below the Username field. The 'SIGN IN' button is active (blue). Below the button are links for 'Forgot password?' and 'Don't have an account? Sign Up'.

Each screenshot includes a copyright notice: 'Copyright © SplitApp 2022.' at the bottom.

Manage account

Allows user to change his name, username and avatar (by uploading image file from disc).

The image displays two screenshots of the 'Manage account' form, arranged side-by-side. Each screenshot has a blue header bar with a search bar and a user icon labeled 'Felo'.

- Left Screenshot:** Shows the 'Manage account' form with fields for Username (Felo), First name, Last name, and NewSurname. A camera icon is next to the NewSurname field. The 'SAVE' button is disabled (grey).
- Right Screenshot:** Shows the 'Manage account' form with the same fields, but the 'SAVE' button is active (blue).

Below the form, the email address 'split@app.com' is displayed. At the bottom of each screenshot is a blue button labeled '+ ADD NEW EXPENSE'. A navigation bar with icons is at the very bottom.

Create an expense

Allows to create new expense (set category, name, amount, status), choose group or person with whom expense was incurred and the person who paid it.

The first screenshot shows the 'Create an expense' form with fields for Name, Amount, and status (Is paid, Settled, Splitted). The second screenshot shows the 'Your groups' and 'Your friends' lists, with 'Friday night' selected. The third screenshot shows the 'Expense was added' confirmation screen. The fourth screenshot shows the 'Expense was added' confirmation screen with a dropdown menu for the payer (You, Andrew, James).

Summary

Shows list of users whom user owes/lent money.

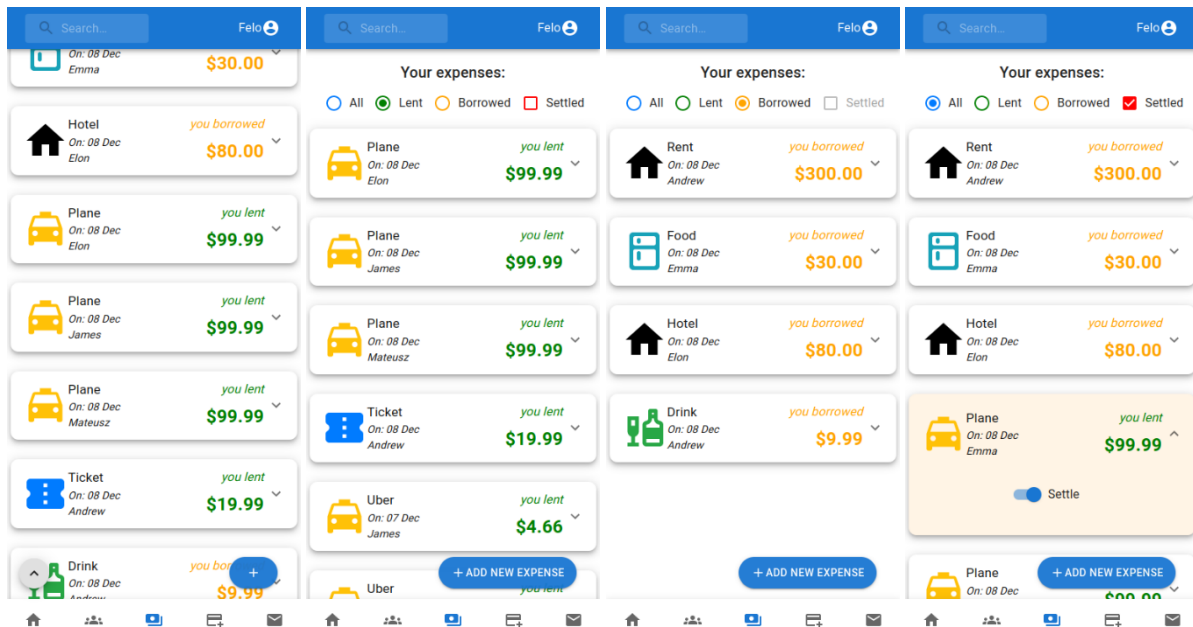
Overall, people owe you \$190.70

	Andrew	owes you	\$285.34
	Elon	owes you	\$80
	Emma	owes you	\$30
	James	you owe	\$104.65
	Mateusz	you owe	\$99.99

+ ADD NEW EXPENSE

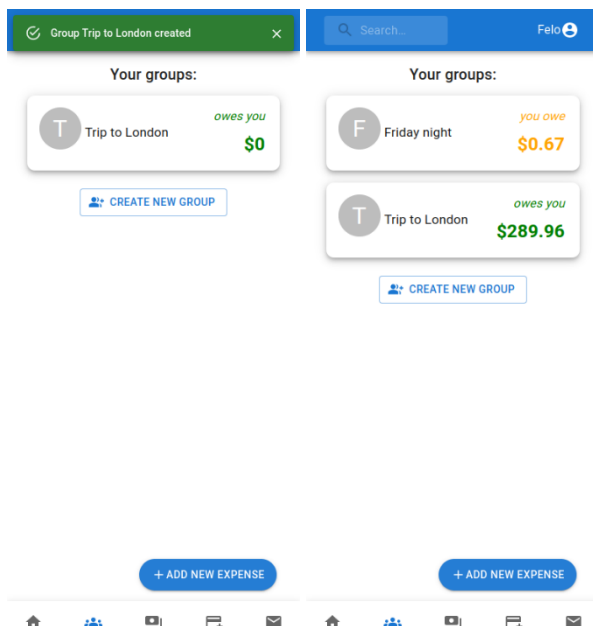
See your expenses

See and manage all expenses + filter them by their type.



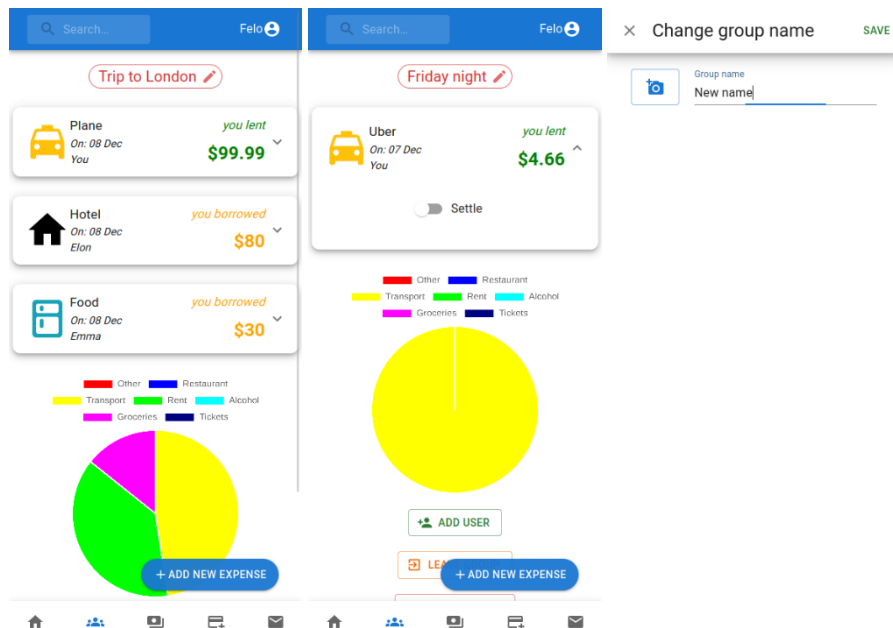
See your groups

Shows list of users group and they balance within this group.



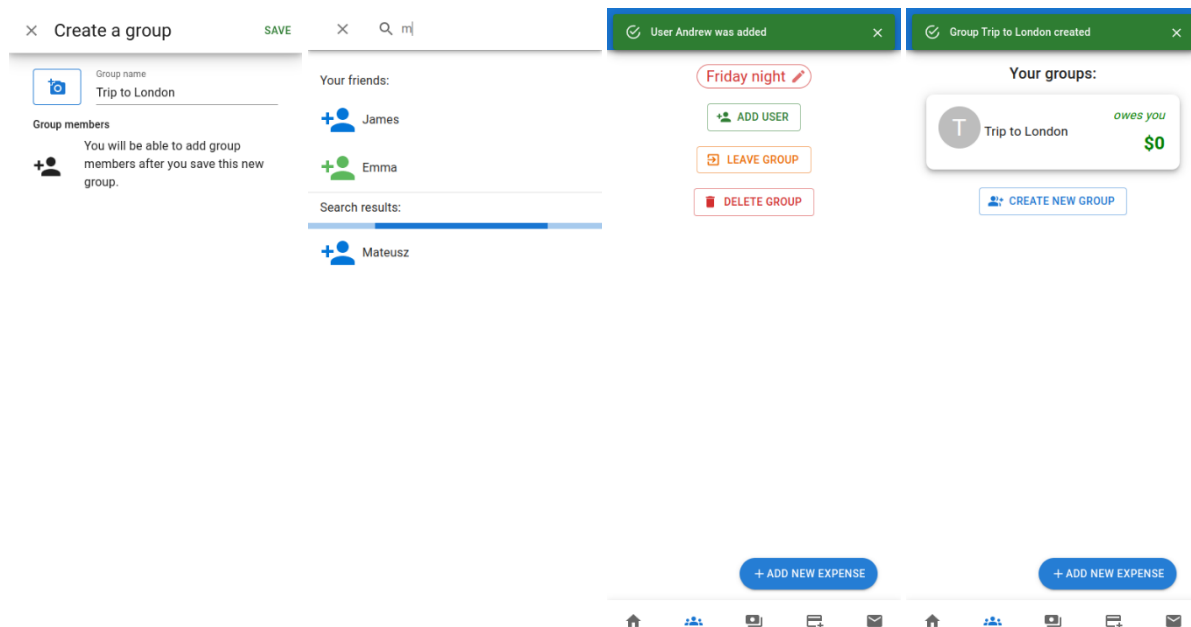
Summary of the group

Shows list of group expenses and chart of categories of incurred expenses. You can also add new users to the group, leave the group and change its name.



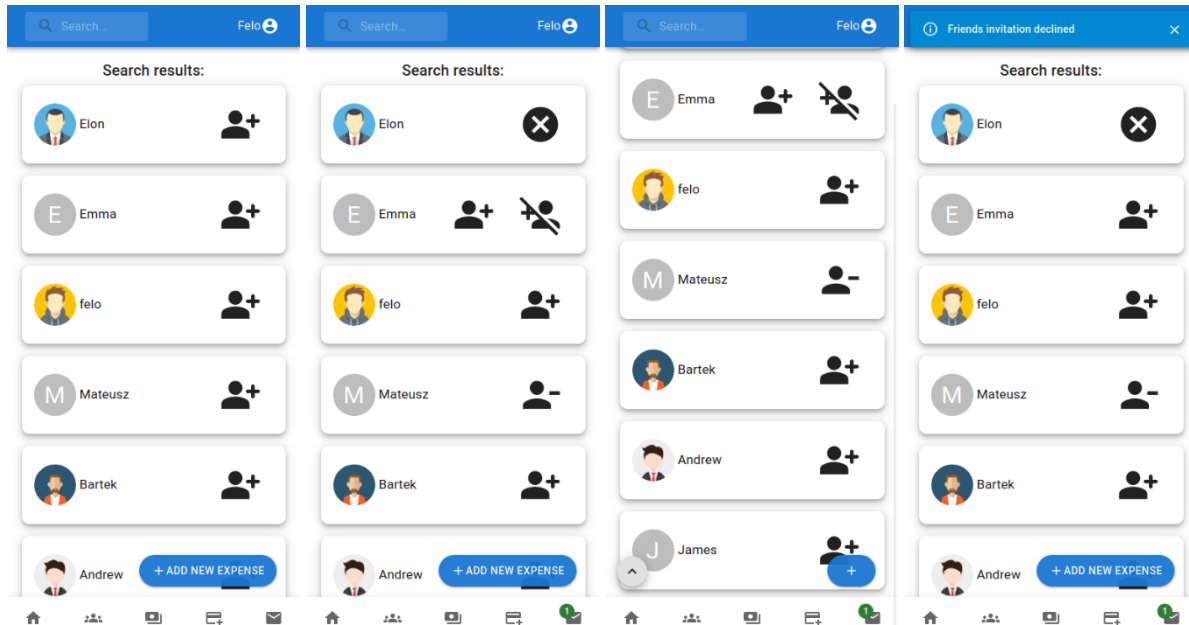
Create a group

Create group – set its name and add users to this group. Quick search for friends and search bar to look for other users by their username.



Manage friends

Users may search for other users using the search bar in the Top Bar (In the screenshots searches for “e”). Users see all the matching users and their relationship status. He may send friend initiation, accept or decline invitation, decline sent invitation or remove a friend.



Notifications

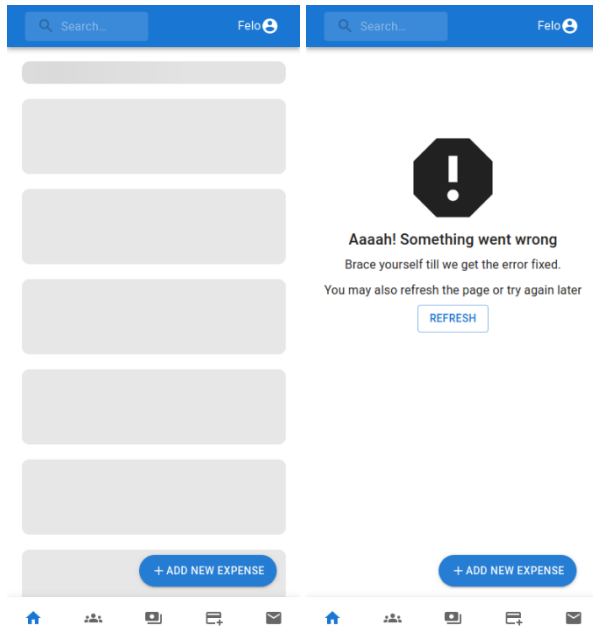
Users may see and manage pending friends' invitations. There is also a notification about pending invitations in the App Bar.



Skeletons and Errors

Skeletons are displayed while loading data (sending API).

Error screens are displayed when there is a problem with connecting to the server. Users may try to reconnect to API by clicking on the “Refresh” button.



Empty States

Empty states are moments in a user’s experience with a product where there is nothing to display. User can also refresh data (last screen)

