

ExpenShare - A budget tracking app

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Overall description of the project

ExpenShare is a budget tracking application meant to allow users to keep an eye on their expenses during group travels. For a specific trip, users would define different categories of expenses (food, activities, ...), and have different roles.

The application would provide different charts to allow both an overview and a detailed description of the expenses, per overall travel and/or category. Users can also access the personal debt and see the latest expenses.

Each user could easily add new expenses to a trip, specifying the amount, category, and user that has done it.

Users and Roles

Users would be able to have different roles such as the “admin”, which will have more power, and other equal roles such as the “hotel organizer”, the “transport organizer”, ...

The user that will create the group will be the admin and will have access to the debt page of every user (View 8). This will allow him to have an overview of how the travel is going and if someone is not paying back. In that sense, the “debt” page will be different for the admin and the other users as you can see on View 7 and View 8. When creating the travel, the admin will add his friends to the group and give them a role. This role can be seen on the friends page (View 9).

Data Information

The main information used in this project is the expenses. Which contains multiple characteristics, such as a label, an amount, a category, an associated user, and possibly a comment (View 5).

These data are stored in order to stay accessible and modifiable throughout the travel existence (until the user decides to delete it). Which are all stored, and accessible from the first page (View 1).

Views & Interactions

View 1: This is the opening view, containing all travels created/joined by the actual user, with the group photo on the left, the travel name assigned at its creation, and an overview of all the user profiles.

- click on one travel -> View 3 (associated)
- click on the ‘+’ button -> View 2

- click on 'user profile' -> View 6 (personal one)

View 2: This view is the one in which users can create a new travel, defining all of its characteristics, and the group member they want to invite to this travel.

- Click on the 'Add' button -> View 3 (empty at first)
- Group Member '+' button -> Small Window opens to select a user to invite (drop menu to select users and possibility to add a new user)
- Categories '+' button -> Adds a new category, for which the user can select both color & icon to be displayed from then on.
- Maximum Budget Slider -> Defines the maximum wanted budget per user for this travel.

View 3: That views to be the main view of a specific travel, from here users shall access almost every feature easily. It provides an overall expenses overview sorted by categories.

- Click on the 'settings' icon -> View 2(already filled, allowing some changes)
- Click on the chart -> View 4 (associated category)
- Click 'New Expense' button -> View 5(empty yet)
- Click on menubar icons - Multiple navigations are possible from here (can go to friends, add expense, home, debt, user profile)

View 4: It displays a representation of a category's total expenses per user, with a chart allowing them to visualize the expenses repartition in each category.

View 5: Here, the user can set an expense with different characteristics (name, amount, category, user, comment).

- Click on whether field -> setting the associated parameter
- Click on the 'Add' Button -> View3 (validating the set/changed parameters).

View 6: This view is accessible whenever the user clicks on his profile picture. It contains the amount of money spent on each category for each trip done.

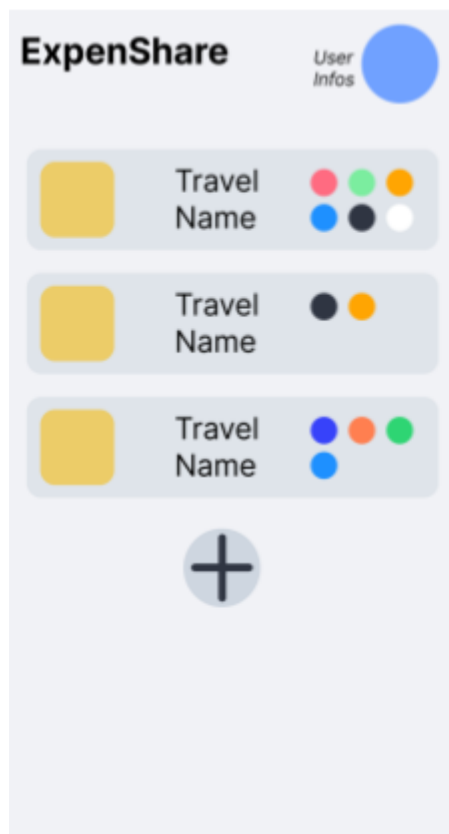
View 7: The user can see what people owe them and what they owe to other people. The user only has access to its own debts.

View 8: The admin can see its own debts but can also click on his travel friends at the bottom to see their debt pages.

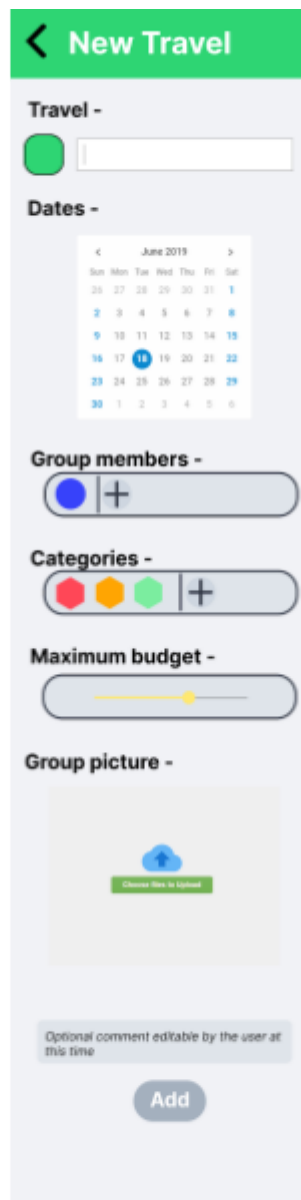
View 9: This view shows the different people participating in a specific trip and their associated role.

Annex: Images

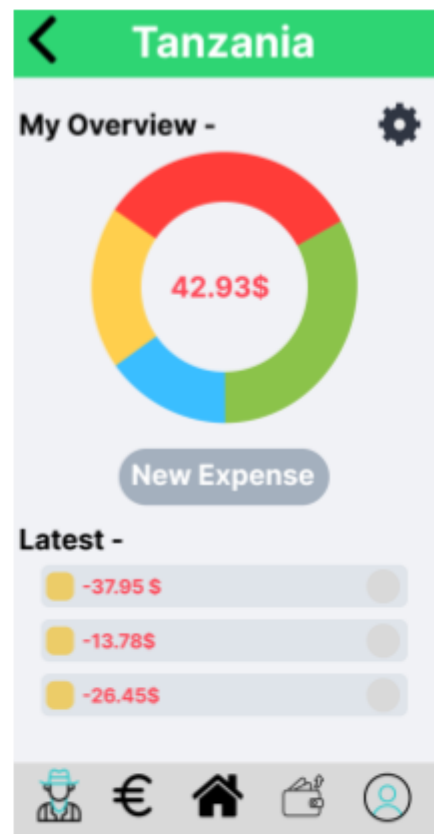
We used the tool Figma to visualize the views and their interactions. The images can be found at the end of the report. However, this was designed more as a form of an app, so it will be restructured to fit for both a web page on the laptop and on the phone.



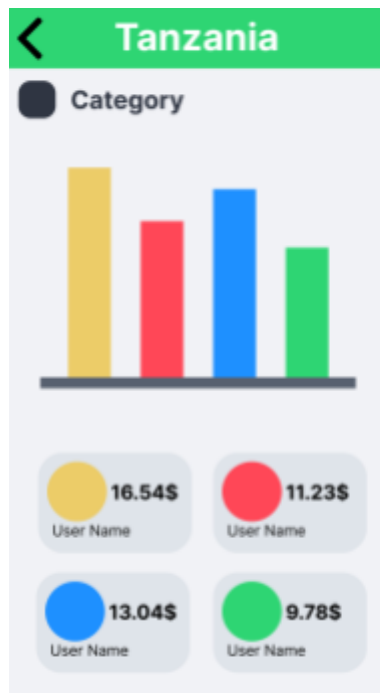
View 1 - Main Page



View 2 - Adding a new travel



View 3 - Overview of a travel expenses



View 4 - Expenses per category

This screen displays a form titled 'Tanzania' for adding an expense. It features a label 'Expense Name' next to a 'User Infos' icon. Below this is a text input field containing '46.95 \$'. Underneath the input field is a row of five colored squares (red, orange, blue, yellow, green). At the bottom, there is a text area labeled 'Optional comment editable by the user at this time' and an 'Add' button.

View 5 - Adding an expense

This screen displays a user profile titled 'My profile'. It shows a 'User Infos' icon at the top right. Below this, there are three sections: 'Tanzania -' with a value of '37.95 \$', 'Australia -' with a value of '47,36 \$', and 'Canada -'.

View 6 - User Profile

This screen displays a 'Debt' page titled 'Tanzania'. It features a 'User Infos' icon at the top right. Below this, there are two sections: 'To pay -' with two items (yellow square with '21.95 \$' and yellow square with '14 \$') and 'To get back -' with two items (yellow square with '5.63\$' and yellow square with '3.17\$').

View 7 - Debt page for "normal" users

This screen displays a 'Debt' page titled 'Tanzania' for an admin user. It features a 'User Infos' icon at the top right. Below this, there are two sections: 'To pay -' with two items (yellow square with '21.95 \$' and yellow square with '14 \$') and 'To get back -' with two items (yellow square with '5.63\$' and yellow square with '3.17\$'). At the bottom, there is a row of three user icons.

View 8 - Debt page for the "admin" user

This screen displays a 'Friends' page titled 'Tanzania'. It features a 'User Infos' icon at the top right. Below this, there are four rows, each representing a member of the trip and their role: Jason (Creator/Manager), Hortense (Hotel organiser), Steve (Transport organiser), and Anne (Food Shopper). Each row includes a small user icon.

View 9 - Members of the trip and their roles