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ExpTracker

Description

If you have some problems with management your expenses, ExpTracker app is all that you need. You can add your purchases to different expenses categories and see the full statistic about your money usage.You can add cheques to the app and you don't forget what you buy.

Intended User

All men and women, who interested in expenses monitoring and need to plan their budget. All people who want to know the answer to the question "Where is my money? I really don't remember what I bought".

Features

- Add purchase with cheque attachment
- Select purchase category
- Protect app access by PIN - code
- View expenses statistic for selected period
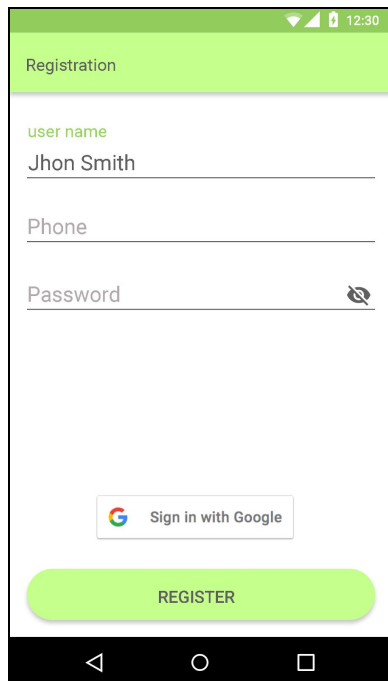- View expenses detalization for selected period

User Interface Mocks

Screen 1
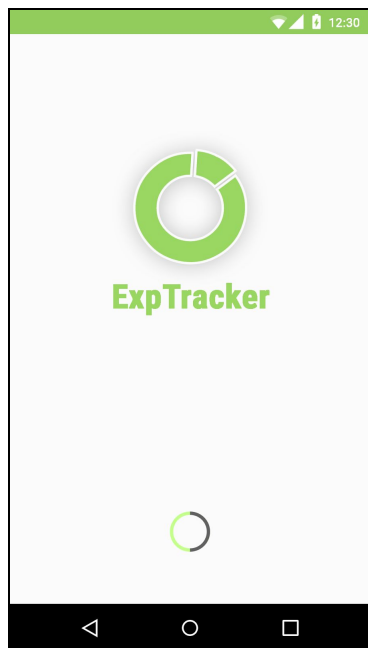
Splash screen: loading screen, show after the app start.
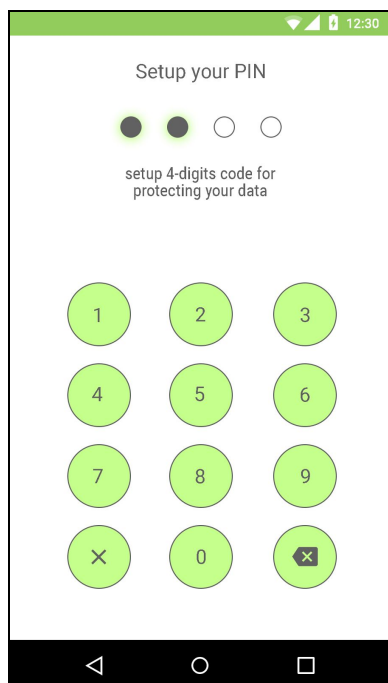
Screen 2

Authorization screen: for the app usage and user identification, first time you need create user account.

Screen 3

Set PIN: a user should set up 4-digits access code for protecting access to him/her expenses information.

Screen 4
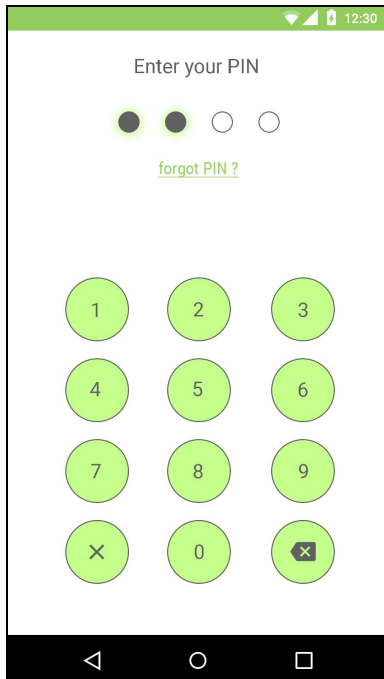
Enter PIN: after authorization and PIN setup, a user doesn't need to login every time. Users should use this screen for entering PIN and access to the app data.

Screen 5
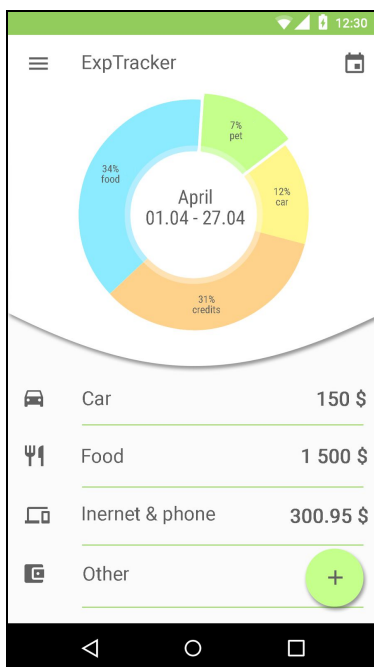
Main screen: Home screen of the app. A user can view statistics about expenses in categorized chart and summary expenses list. A user can filter date range of statistics. User can add new purchase by FAB

Screen 6
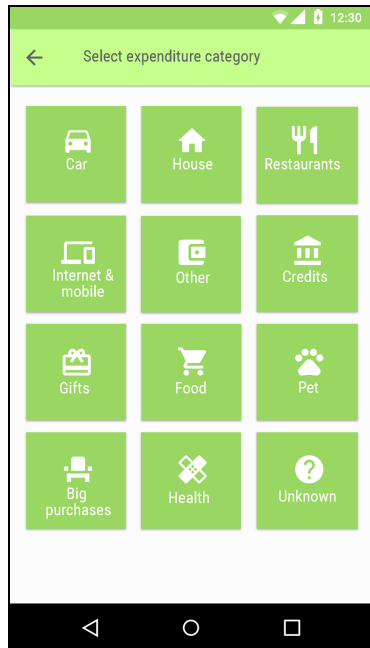
Category select screen: When user add new purchases , first he or she need to select expenditure category.

Screen 7
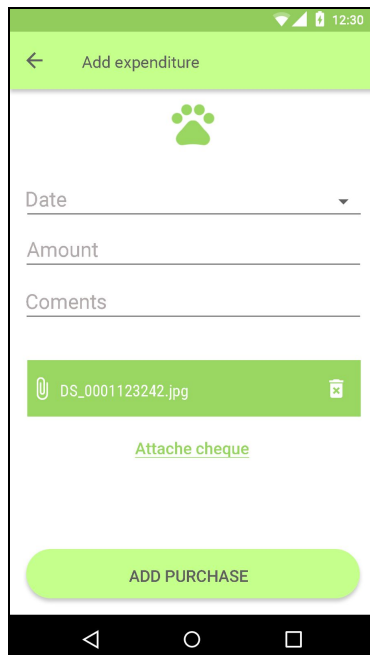
Add expenditure step 2: after purchase category select, a user should set date (today by default) and an amount of purchase. Additionally user can attach cheque photo from gallery or camera.

Screen 8
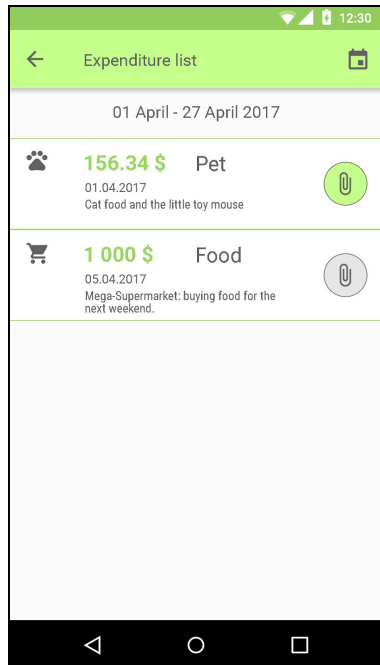
Expenditure detalization list: user can view full details about purchases in selected period. User can change a period filter. The user can view all attached cheques. This feature available via Navigation Drawer menu.

Screen 9
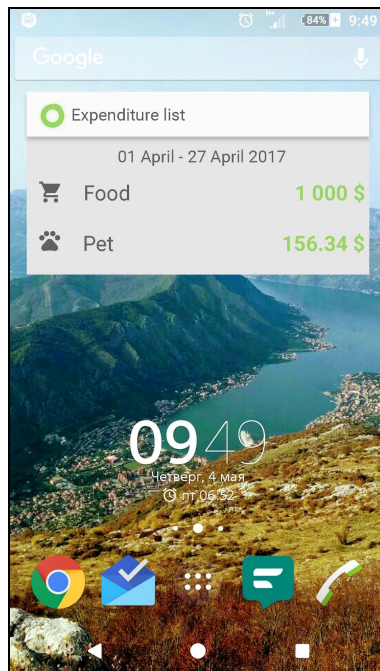
The app widget: contain information about last month expenses.

Key Considerations

How will your app handle data persistence?

I will create my own content provider for data storing and handling.
The app will use a Loader to move its data to its views.
The app will an AsyncTask for reports creating.

Describe any corner cases in the UX.

If user forgot her/ his PIN code, the app will do logout from user account and user can re-login and create new PIN. User data don't be lost in this case.

Describe any libraries you'll be using and share your reasoning for including them.

Glide to handle the loading and caching of images.
Butterknife for view injection.
Mosby for handle view states (screen orientation change and etc.)
MPAndroidChart for creatr statistics diagram.
Schematic-compiler for create own ContentProvider.
Itextpdf for pdf documents creating.

Describe how you will implement Google Play Services.

The app will use firebase analytics for tracking information about user behavior.
The app will use Google Sign-In options for user auth.

Next Steps: Required Tasks

Task 1: Project Setup

- Create Git repository
- Create and configure new Android studio project
- Configure libraries
- "Cut" design sources.

Task 2: Implement UI for Each Activity and Fragment for phone and Tablets

- Build UI for Splash screen
- Build UI for Registration screen
- Build UI for PIn set
- Build UI for PIN enter screens
- Build UI for MainActivity
- Build UI for Navigation Drawer menu
- Build UI for Expenditure List
- Build UI for Adding purchase: category selection
- Build UI for Adding purchase: information form.
- Build UI for app dialogs : PIN forgot, Purchase adding result, Purchase delete result.

Task 3: Create Base classes

- Create parent class for all Activities and Fragments
- Create base classes for all MVP object. (BaseView, Base Presenter and etc.)

Task 4: Create Content Provider

Task 5: Create full app logic

- Create business logic unit tests
- Create content provider
- Create all app logic

Task 6: Add animations

Task 7: Test the app