

DAILY EXPENSE TRACKER

- By DarshanScripts

Develop a mobile application according to the given requirements.

Name of an Application: Daily Expense Tracker

Application User: Customer

Purpose: Daily Expense Tracker is a tracking application that helps you to manage & track your expenses, also helps you to stick to your budget.

Definition: This application is a daily manager which gives you the detailed report about your income & expenditure. The user needs to register in the Daily Expense Tracker application to access its functionalities. It keeps the track and organizes your daily expenses as well as the income. The application also provides different types of reports based on daily transactions as well as monthly summaries. It offers the reminder feature for user.

The application provides the following functionalities to the user:

- User can register and log in to the system.
- Users can manage their profile.
- Add/View income and expenses.
- View monthly reports.
- Daily Reminder
- Users can customize the application's settings.

1. Develop the designated screens for the **“Daily Expense Tracker”** Application. Implement a registration facility for users to avail themselves of the services provided by Daily Expense Tracker.
2. When the user clicks on the “Sign Up” button, the user should be redirected on the Signup screen. The user needs to fill the details in the form asked for the registration process. The registration process requires some mandatory details, which are: Full Name, Email Address, Contact Number, Gender, Birthdate, Password and Confirm Password. Create a date-picker dialogue box to choose the birthdate. Add the different validations to the “Full name, Email, contact number and password” fields rather than using the required field validation.
3. When the clicks on the “Sign In” button, provide a login screen to the user which asks for the login credentials. Users can login through their registered email address and password. To authenticate the user, static data can be used. If the user makes three unsuccessful login attempts, then warn the user that he/she had exceed the maximum limit for login attempts. Also, validate the contact number and password fields.

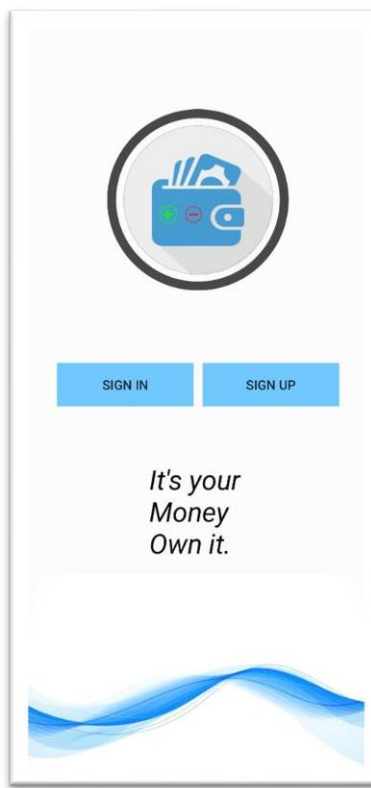


Figure 1 Welcome Activity

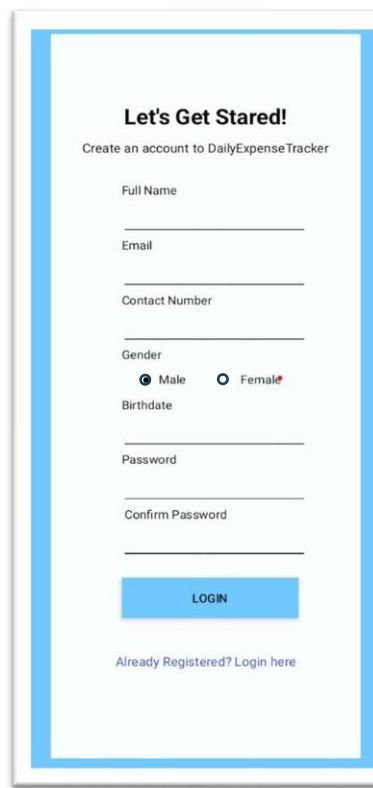


Figure 2 Sign-Up Activity

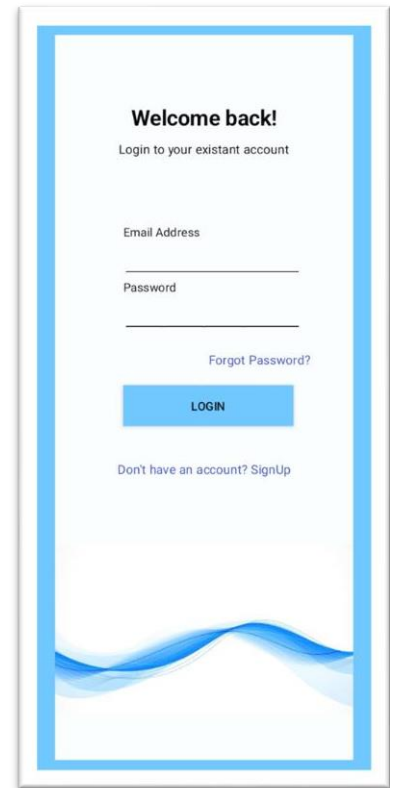


Figure 3 Sign-In Activity

4. After successful registration, redirect a user to the “Sign-In” screen where user can view the Email Address and Password fields which are auto-filled with the values provided while registration.
5. After successful Login, redirect user to the home screen of an application. Follow and implement at least five designing principles on the home screen of application. The home screen provides the several options like: Add Income, Add Expense, Transactions, Reports, Account, About Us. Whenever user clicks on the particular option from home screen, navigate the user to the appropriate screen.
6. When the user chooses the Account option from the home screen, the user must be able to view the entered details during Sign-Up process.

7. When the user clicks on Add Income option, provide a screen to the user to add income. To do so, users need to fill the following details:
 - Amount
 - Category (Allowance, Bonus, Business, Investment Income, Other Income, Pension, Salary)
 - Date
 - Notes
8. When the user clicks on Add Expense option, provide a screen to the user to add the expense. To do so, users need to fill the following details:
 - Amount
 - Category (Accessories, Bills, Groceries, Food, Fuels, Other Expense, Transportation)
 - Payment Method
 - Date
 - Notes
9. Provide a screen to the user to view the “Transactions”. Transactions are the records of expense and income added by the user. The “Transactions” screen must display all the expenses and income. In the “Transactions” screen, the income records must be highlighted in green color and the expenses in red color.
10. Design a screen for “About Us” option. The screen includes brief information about the application and contact information of app developers. The contact information must include email address and phone number of the developer. Provide a calling facility on the click of phone number of the developer.
11. Create the following menus for an application:
 - An option menu for “home screen”, which provides the “View Income”, “View Expense”, “Settings” and “Logout” options.
 - A context menu for “transactions” screen, which must be activated on a long click of any transaction, and the menu should provide the options like “Edit” and “Delete” for that transaction.
12. Create a multi-pane screen for “View Income” activity, which must be visible when the user clicks on the “View Income” option from a menu and do the following:
 - A first part of screen must provide a form which asks for the income details.
 - A second part of screen should display the added income in first part of the activity.
13. When user clicks on “Logout” option from menu, alert the user with dialog box, which asks user that “Are you sure you want to logout?”. If the user selects “Yes” from the dialog box, then the application must be closed, and if user selects “No”, then user can continue to the application.
14. Design a progress bar to show the progress of saving the data of Income and Expense when user clicks on “Add” button at the time of saving. The progress bar must be visible on screen for 3 seconds.
15. Implement the DatePicker dialog on “Date” field of “Add Income” and “Add Expense” form of the application. Add the validation that user should not choose the future dates. The date must be current date or past dates.
16. Design a “Settings” screen to store the user’s preferences. The screen must be visible when user clicks on the option of the created menu in practical-5. Provide a facility to set the following preferences for user:
 - Alarm Settings
 - Application Icon
 - Language Settings
 - Font Style
 - Font Size
17. Save the user’s login preferences to appropriate data storage mechanism. When the user login back after logout from the application, the username and password must be auto-filled from the data storage. Also, store the user’s details while registering and display them on the “Account” page using appropriate data storage mechanism.

Tables:

- **Categories**(CategoryId, CategoryName)
- **User_Details**(UserId, UserName, Email, ContactNo, Gender, BirthDate, Password)
- **Income_Details**(IncomeId, UserId, Amount, CategoryName, Date, Notes)
- **Expense_Details**(ExpenseId, UserId, Amount, CategoryName, Payment Method, Date, Notes)

Consider the above tables and do the following:

18. Design a screen to add the different types of categories for income and expenses. Store the details in appropriate database and retrieve it on “Add Income” and “Add Expense” page in dropdown control to choose the category.
19. Store all the Income and Expense details in appropriate data storage.
20. Retrieve the Income and Expense data from database and display in Transaction page. A menu should be appeared on a long click of any transaction which contains two options: Edit and Delete. When user clicks on the “Delete” option, the user must be able to delete the transaction and when user clicks on the “Edit” option, the user must be able to update the transaction details.
21. Modify the option menu, add the option, “To-Do List”. Provide a screen to the user on click of the created option on which user can add their to-do tasks and save the data in mobile’s internal memory in “list.txt” file.
22. Notify a user to collect the pending amount from a debtor(borrower). When a user gets the notification of it, he/she should be able to view the contact list in the “DailyExpenseTracker” application to call for collecting the amount.
23. Provide a facility to the user to add a bill/proof of expense while adding the expenses. When user clicks on the “Add Bill” option from the “Add Expense” page, the camera should be open and user must be able to capture a picture of the bill.
24. Design a screen to set the alarm which should be open on the click of “Alarm Settings” option from the “Settings” screen. The screen must have the proper screen element to choose the time and add a label for an alarm. When the users set the alarm, the application must be able to notify the user to add the income and expense at a scheduled time on day- to-day basis.
25. Design an attractive splash screen relevant to your application that containing tag line, app icon or short video/GIF. Enable user to listen soft music (from raw folder) as post activity of splash screen. Apply the animation to the tagline.