Angular JS Expense Tracker

Create an application using Angular JavaScript framework, based on the wireframes given below.

# Screen 1:

There are two options available on this screen, ‘Create a new expense’ and ‘View Expenses’. On clicking each option the application should navigate to the relevant screen.

# Screen 2-Expense Creation

This screen would consist of the following fields

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Field Type** | **Data Source** | **Function** |
| Date | Date Picker | NA | Allows user to select the date |
| Today | Button | NA | Allows the user to select today’s date |
| Expense Category | Combo Box | Populated from JSON and local storage | Allows the user to select an expense category |
| Amount | Text | NA | The amount of money spent on the selected category |
| Other Expenses (New category) | Text/Mixed | Saved to local storage | Allows the user to manually enter an expense category |
| Amount | Text | NA | The amount of money spent on that expense category |
| Summary | Grid | Local Storage | Allows the user to view the selected category and the amount spent |
| Save | Button | NA | Saves the values entered into the grid to local storage |
| Back | Button | NA | Application navigates to the previous screen |

Other Functionalities:

* Clicking on the ‘Today’ button should automatically populate the current date in the ‘Date’ field.
* *Basic Expenses:* After the user enters a valid number in the ‘Amount’ field, when the ‘Amount’ field loses focus (i.e., on blur) the ‘Category’ and ‘Amount’ should be populated in the ‘Summary’ grid. If the Category or Amount field is empty no action should happen.
* *Other Expenses:* After the user enters a valid number in the ‘Amount’ field, when the ‘Amount’ field loses focus (i.e., on blur) the ‘Name and ‘Amount’ should be populated in the ‘Summary’ grid. The ‘Name’ entered should be saved to an ExtJS data store using ‘localstorage’ proxy (the value of ‘Name’ should not be saved again if it already exists).If the Category or Amount field is empty no action should happen.
* *Name:* The ‘Name’ field should have an autocomplete feature. If the user types in a value that has already been used, that value should automatically be populated.
* *Summary Grid:* The ‘Amount’ column in the Summary grid should be editable when the user double clicks on an entry. For example, if the user double clicks on 2000 it should become editable and on tabbing out/blurring of the editable field the newly entered value should replace the old value in the grid column. On clicking the delete button (the trashcan icon) the entire row should be removed from the grid. The changes made in the Summary grid should be stored to localStorage only when the ‘Save’ button is clicked.
* *Save:* Any changes made to the ‘Summary’ grid should be saved to local storage on clicking the ‘Save’ button.
* *Back:* Clicking on this button takes the user back to the previous screen. If there are any unsaved changes made to the screen, there should be an alert box with the message, *‘There are unsaved changes in this screen. You will lose these changes if you go back. Do you wish to go continue?’*
* HINT: Any expenses saved to local storage must be associated with a date as these values will be retrieved using the date.

# Screen 3-View Expenses

This screen would consist of the following fields

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Field Type** | **Data Source** | **Function** |
| Year | Combo Box | NA | Allows user to select the year |
| Month | Combo Box | NA | Allows the user to select the month |
| Date | Combo Box | NA | Allows the user to select the date |
| Go | Button | NA | Populates the summary grid based on the values of year, month and date |
| Summary | Grid | Local Storage | Allows the user to view the selected category and the amount spent |
| Year/Month/Date indicator | Text | NA | Indicates the year/month/date selected. |
| View Strategy Chart | Button | NA | Application navigates to the ‘Strategy Chart’ screen |
| Back | Button | NA | Application navigates to the previous screen |

Other Functionalities:

* *Go :* On clicking the go button the summary grid should be populated based on the values of the Year , Month and Date field. This is represented by the table given below.

|  |  |  |  |
| --- | --- | --- | --- |
| *Year* | *Month* | *Date* | *Action* |
| *Selected* | *Empty* | *Empty* | *Display the summary for the entire year* |
| *Selected* | *Selected* | *Empty* | *Display the summary for that particular month of the year alone* |
| *Selected* | *Selected* | *Selected* | *Display the summary for that day of the year* |

Along with populating the Summary grid, the selected year/month/day should be displayed as a label as shown in the wireframe. For any other combinations or if there is no data for the selected date, display an alert box with the message ‘There is no data for the selected duration’.

* *View Strategy Chart:* The application should navigate to the ‘Chart’ screen.

# Screen 4-Chart

A pie chart should be generated based on the date selected in the previous screen and the data available for that date. If no data is available, display an alert box with the message ‘There is no data for the selected duration’.

* *Home:* Clicking on this would take the user back to the Home screen.