RegistrationActivity & LoginActivity Attributes

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| --- | --- | --- |
| Attribute | Type | Description |
| email | String | Email ID of the User |
| password | String | Password of the User |

RegistrationActivity & LoginActivity Methods

|  |  |  |
| --- | --- | --- |
| Method | Parameter | Description |
| onCreate (in registration activity) | Void | Asks for the username and password and create an account in Firebase. |
| onCreate (in login activity) | Void | Authenticates the user based on the credentials in the firebase and allow access to the user |

MainActivity Attributes

|  |  |  |
| --- | --- | --- |
| Attribute | Type | Description |
| budgetCardView | CardView | Set the placeholder for the SetBudget functionality and redirects to budget activity from main activity. |
| expenseCardView | CardView | Set the placeholder for the AddSpendings functionality and redirects to expense activity from main activity. |
| filterCardView | CardView | Set the placeholder for the Filter functionality and redirects to filter activity from main activity. |

MainActivity Methods

|  |  |  |
| --- | --- | --- |
| Method | Parameter | Description |
| onCreate() | Void | Displays the dashboard with entrypoints to all activities in the app. |

BudgetActivity Attributes

|  |  |  |
| --- | --- | --- |
| Attribute | Type | Description |
| post\_key | String | Access the reference position of the selected dropdown item |
| item | String | Access the name of the item selected |
| amount | Integer | Access the value of amount. |

BudgetActivity Methods

|  |  |  |
| --- | --- | --- |
| Method | Parameter | Description |
| onCreate() | Void | Initializes the attributes, the floating icon and calculates the total budget amount. |
| onStart() | Void | Fetch the records for the current month from firebase and populate them on screen. |
| addItem() | Void | Pop up screen with functionality to add new items in the budget |
| updateItem() | Void | Pop up screen with functionality to update existing items in the budget page. |

ExpenseActivity Attributes

|  |  |  |
| --- | --- | --- |
| Attribute | Type | Description |
| post\_key | String | Access the reference position of the selected dropdown item |
| item | String | Access the name of the item selected |
| mode | String | Access the value for mode of payment. |
| amount | Integer | Access the value of amount. |

ExpenseActivity Methods

|  |  |  |
| --- | --- | --- |
| Method | Parameter | Description |
| onCreate() | Void | Initializes the attributes, the floating icon and calculates the total expense amount. |
| onStart() | Void | Fetch the records for the current month from firebase and populate them on screen. |
| addItem() | Void | Pop up screen with functionality to add new items in the budget |
| updateItem() | Void | Pop up screen with functionality to update existing items in the budget page. |
| getTodaysDate() | Void | Access the current timestamp and initialize the date dropdown spinner with current date. |
| openDatePicker() | Void | Functionality to select the date of transaction. |

FilterActivity Attributes

|  |  |  |
| --- | --- | --- |
| Attribute | Type | Description |
| post\_key | String | Access the reference position of the selected dropdown item |
| item | String | Access the name of the item selected |
| mode | String | Access the value for mode of payment. |
| amount | Integer | Access the value of amount. |

FilterActivity Methods

|  |  |  |
| --- | --- | --- |
| Method | Parameter | Description |
| onCreate() | Void | Initializes the attributes and filter spinners with corresponding values. |
| onStart() | Void | Fetch the records for the current month from firebase and populate them on screen. |
| onItemSelected() | Void | Fetch the value selected in the first dropdown spinner and populate the second spinner accordingly. |
| filterItem() | Void | Constructs the query based on the filters selected and fetch the new data from the firebase and populate them on screen. |

Data Class Attributes

|  |  |  |
| --- | --- | --- |
| Attribute | Type | Description |
| item | String | Category of purchase |
| mode | String | Mode of payment |
| date | String | Date of Transaction |
| id | String | ID of Transaction |
| itemNday | String | Day of Transaction |
| amount | Integer | Transaction Amount |
| week | Integer | Week of Transaction |
| month | Integer | Month of Transaction |
| notes | String | Custom description of the transaction by the user |

Data Class Methods

|  |  |  |
| --- | --- | --- |
| Method | Parameter | Description |
| getItem() | Void | Method to retrieve the item details. |
| setItem() | Void | Method to set the value of item details. |
| getMode() | Void | Method to retrieve the mode of payment. |
| setMode() | Void | Method to set the value of the mode of payment. |
| getDate() | Void | Method to retrieve the date. |
| setDate() | Void | Method to set the date of transaction. |
| getId() | Void | Method to retrieve the ID. |
| setId() | Void | Method to set the value of ID. |
| getItemNday() | Void | Method to retrieve the date of transaction. |
| setItemNday() | Void | Method to set the date of transaction. |
| getAmount() | Void | Method to retrieve the amount details. |
| setAmount() | Void | Method to set the value of purchase amount. |
| getMonth() | Void | Method to retrieve the month of transaction. |
| setMonth() | Void | Method to set the month of transaction. |
| getNotes() | Void | Method to retrieve the user description of the transaction. |
| setNotes() | Void | Method to set the user description of the transaction. |