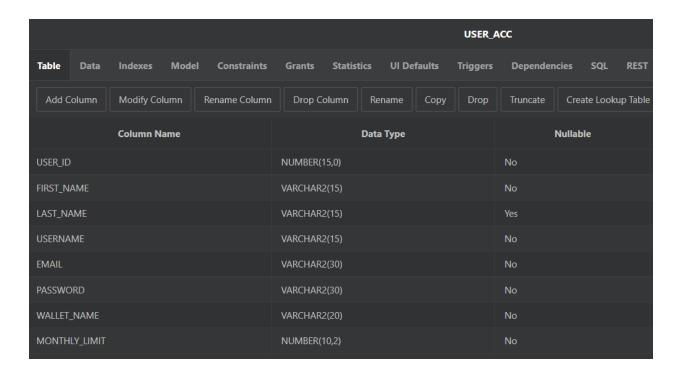
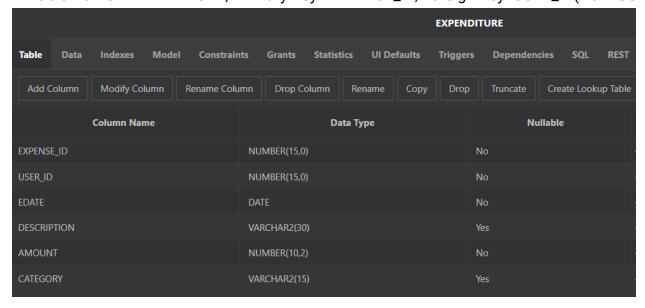
# Personal Expense Tracker - FinTrack Project Documentation

## Database Design:

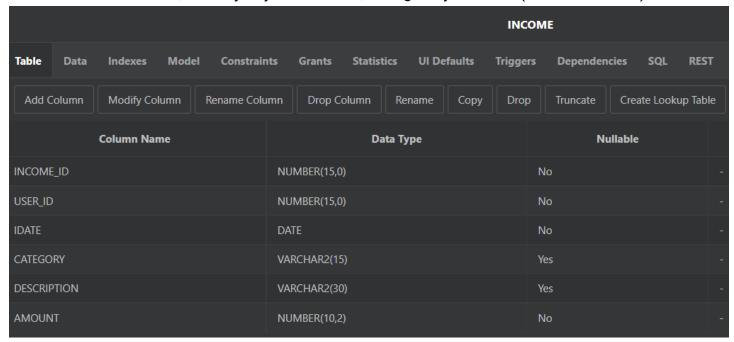
1. Table Name: USER\_ACC, Primary Key: USER\_ID



2. Table Name: EXPENDITURE, Primary Key: EXPENSE\_ID, Foreign Key: USER\_ID(from USER\_ACC)



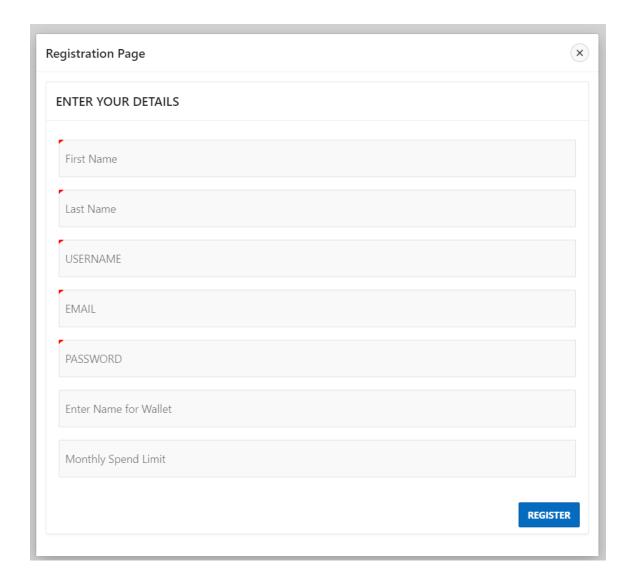
#### 3. Table Name: INCOME, Primary Key: INCOME\_ID, Foreign Key: USER\_ID(from USER\_ACC)



USER\_ACC table is used to store the details of users who registered on the application platform. INCOME table is used by users to add any income received by them and the Expenditure table is used to store all the expenses made by the user. The primary keys for all three tables are populated from different sequences.

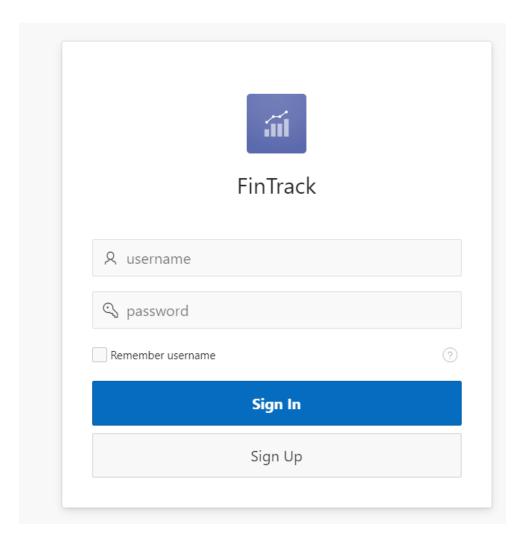
## **Application Overview:**

#### Registration Page:



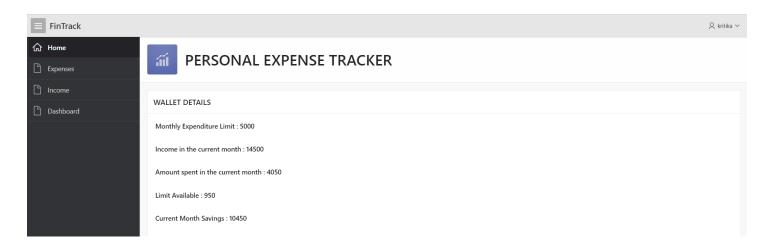
The sign up button on the login page launches the registration page as a modal dialog box. Here the user can enter details like name, username, email, password and wallet details. Username and email must be unique for each registered users which is verified using the various field validations. Once the user clicks on the register button, his details are entered into the USER\_ACC table and he is registered to use the application. Here, the user is also asked to set a monthly expenditure limit for his expenses and is alerted whenever that limit is crossed via email.

### Login Page:



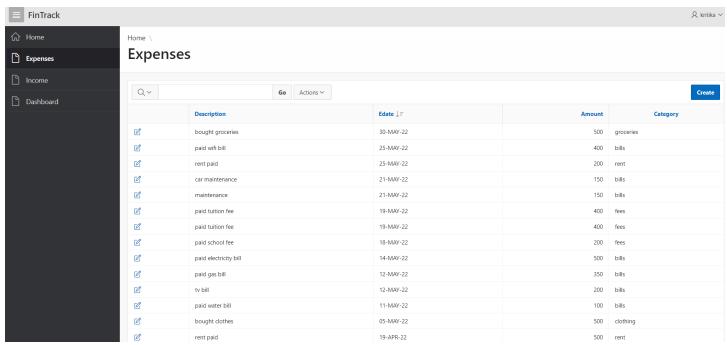
Users can login to the application by filling in their username and password. When the sign in button is clicked, the values entered in the username and password field are validated against data entered in the USER\_ACC table. If the values entered are valid, a session is created and the user is logged into the application. Otherwise, a login error message is displayed on the same page. In the process of logging in, three application items are created. First is the login message, which stores the status of login, second is the session\_user\_name which stores the username of the user in the session, and the last one is session\_email which stores the email address of the user.

## Home Page or wallet page:

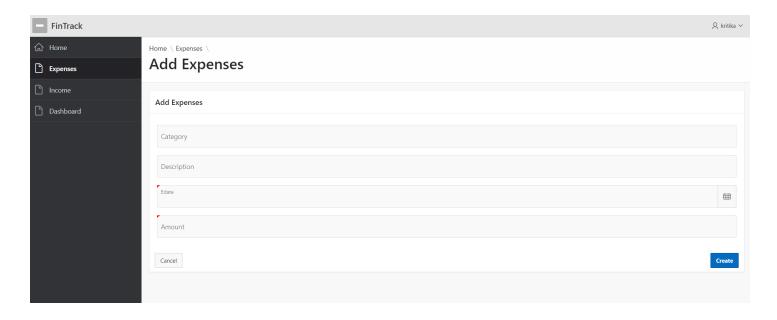


This is the first page the user sees after logging in. This page displays the user's wallet information. The expenditure limit which is set by the user while registering is displayed. Total income generated in the current month is calculated and displayed. Total expenditure for the current month is also calculated and displayed to the user in the same region. The limit available is calculated by deducting expenditure and savings are calculated by subtracting expenditure from income for the current month. The home page is designed to give a quick view of the current financial status of the user for the ongoing month.

#### **Expenses Page:**

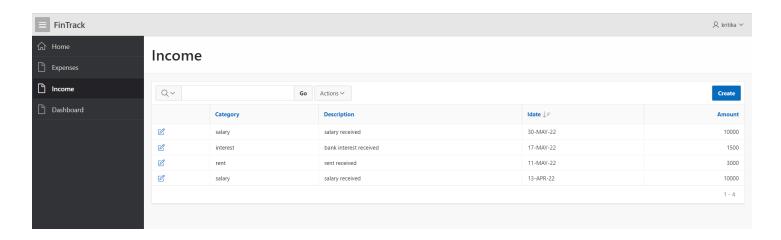


This page is used to display all the expenses of the user. It is an interactive report and the user can perform various operations like sorting, filtering, etc. on the data. To add a new expense, the user has to click on the create button which redirects him to the following form page where a new expense can be added.



Once the user enters his details and clicks on create, a new row is created in the EXPENDITURE table and the new expense is stored in the database. Before being redirected back to the expenses page, a process is executed which checks whether the expenditure limit for the month was crossed. If yes, an email is sent to the email address stored in the session\_email application item alerting the user.

### Income Page:

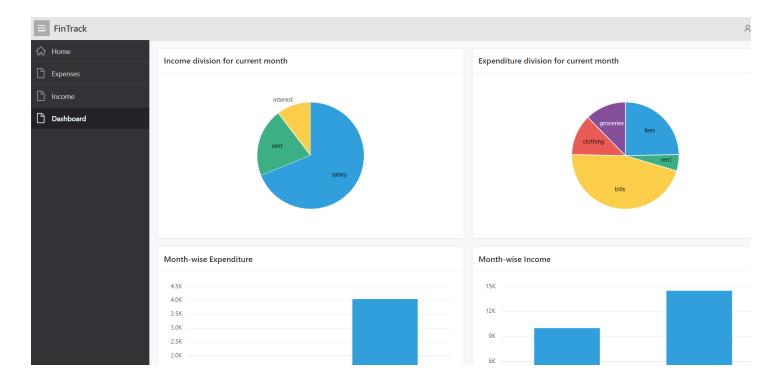


The income page contains a report displaying all the income entries added by the user. It is an interactive report where the user can view data from the INCOME table and also perform various operations like sorting, filtering, etc. on the data. The user clicks on the create button in order to add a new income entry. This button redirects the user to the add income form page shown below.



User can enter the details of the new income entry here in the form and click on create to add it to the INCOME table in the database.

#### Dashboard:



This page displays various visual charts and graphs which helps the users analyze their expenses. The dashboard consists of 4 figures. The first and second figures are pie charts. They are used to breakdown the monthly income and expenditure of a user based on the category. The next two figures are bar graphs which display the total monthly income and expenditure of a user over a few months using the bar graph.

## Links:

Application Link: <a href="https://iacademy.oracle.com/ords/f?p=9963">https://iacademy.oracle.com/ords/f?p=9963</a>

Workspace Credentials:

Workspace and Username: IN\_B435\_SQL\_S56

Password: kritika@5