

Personal finance management site

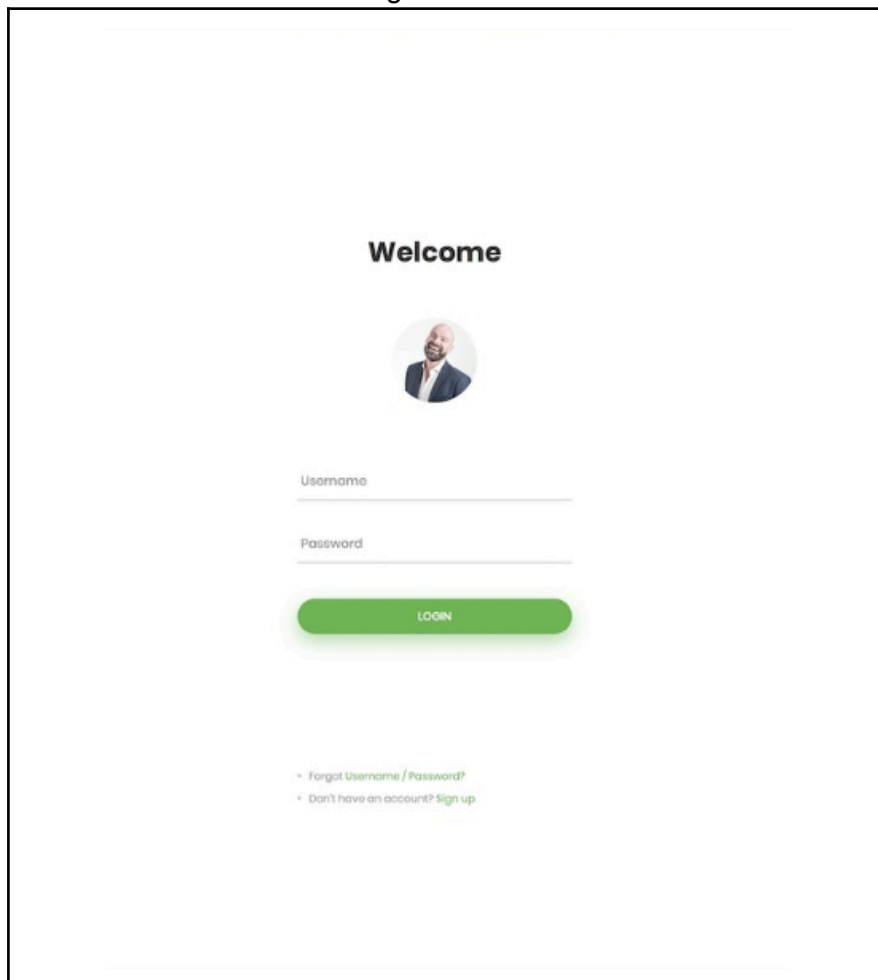
Introduction

This project aims to demonstrate a responsive web application using VueJS framework. The website's main purpose is to showcase user's financial pattern, then analyze it to give a breakdown details of their consumption for future savings decision. The dashboard showcase will be rendered as per authenticated/ unauthenticated users. Also, a social forum will be provided for users to communicate and share tips/ posts for others.

Technical requirements:

1. Login/logout feature:

- Implement features for user registration, login, logout.
- New/ remaining user details will be stored in a relational database.



The image shows a login form within a light gray border. At the top, the word "Welcome" is displayed in bold. Below it is a circular profile picture of a man with a beard. Underneath the picture are two input fields: "Username" and "Password". A green button with the text "LOGIN" is positioned below the password field. At the bottom of the form, there are two links: "Forgot Username / Password?" and "Don't have an account? Sign up".

2. Authorization feature:

Authorized users or admin:

- Create, edit, delete users/ transactions in backend database
- Access a specific user's dashboard
- Moderate user-generated content such as comments or forum posts.
- Generate reports and analyze data to track site usage, user behavior, and financial trends.

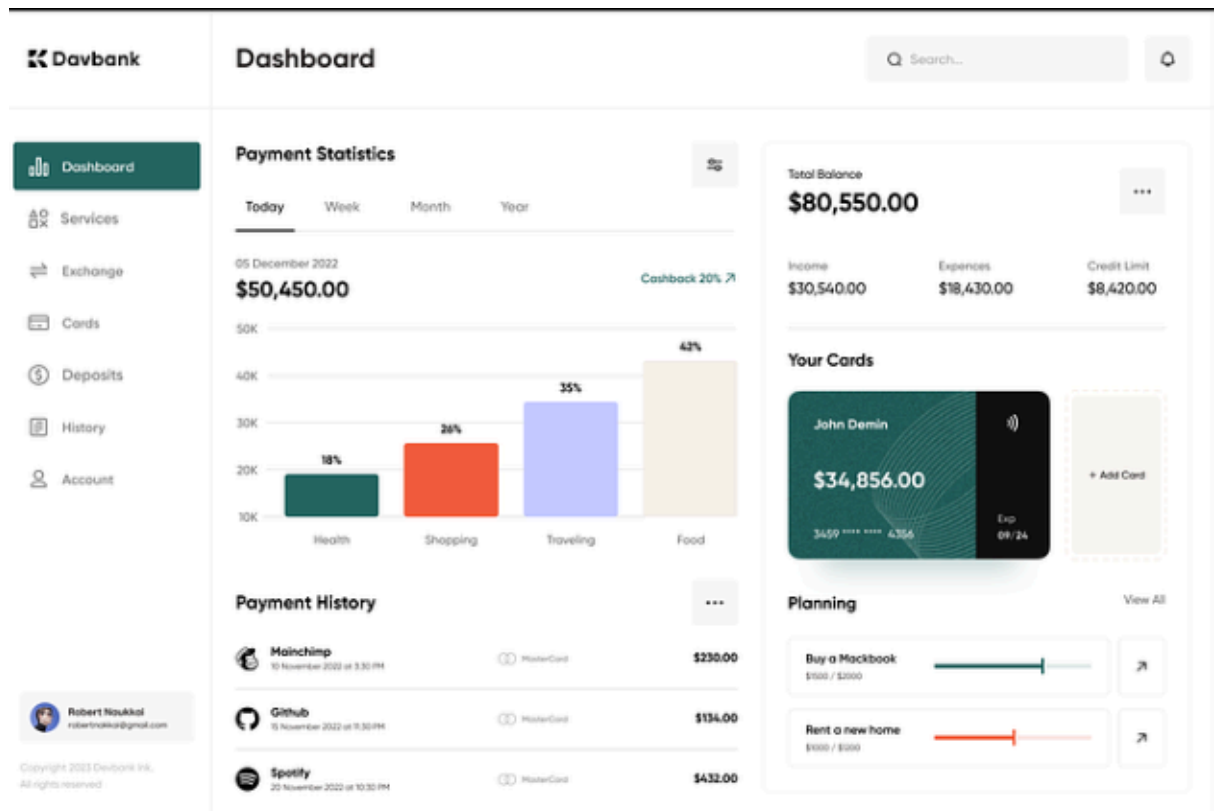
3. Dashboard functionalities:

- The dashboard will contain a quick overview of their overall financial situation (income/ spending).
- Categorized transactions sum, for example, \$100 petrol + \$200 groceries ... per month
- A feature to point out a new, unusual transactions for finance management decision.
- A feature to remind them a fixed/ usual/ monthly/ fortnightly payment or bills of the user.
- Users can input their income and expenses to see how well they are sticking to their budget and identify areas where they may need to adjust their spending.
- For the admin, admin's dashboard can be changed based on the userID **filter** to show that user's dashboard

Example template:

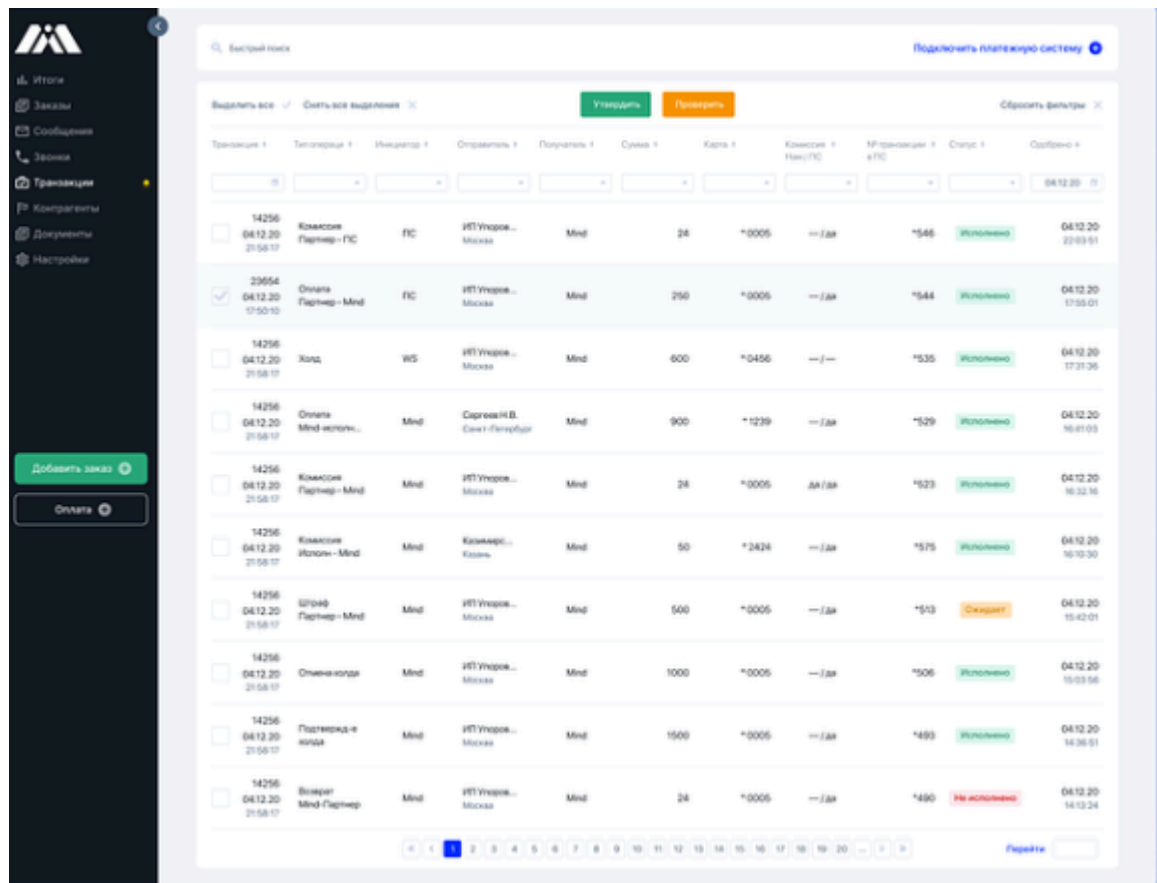


Or



4. Pagination:

- This feature will mostly be implemented in the normal users's forum and admin management page only.
- An optional pagination is in the "transaction history" page of the users, which provided a list of recent transactions from their linked accounts. However, this will be decided later since it's related to data privacy concern for a third-party website.

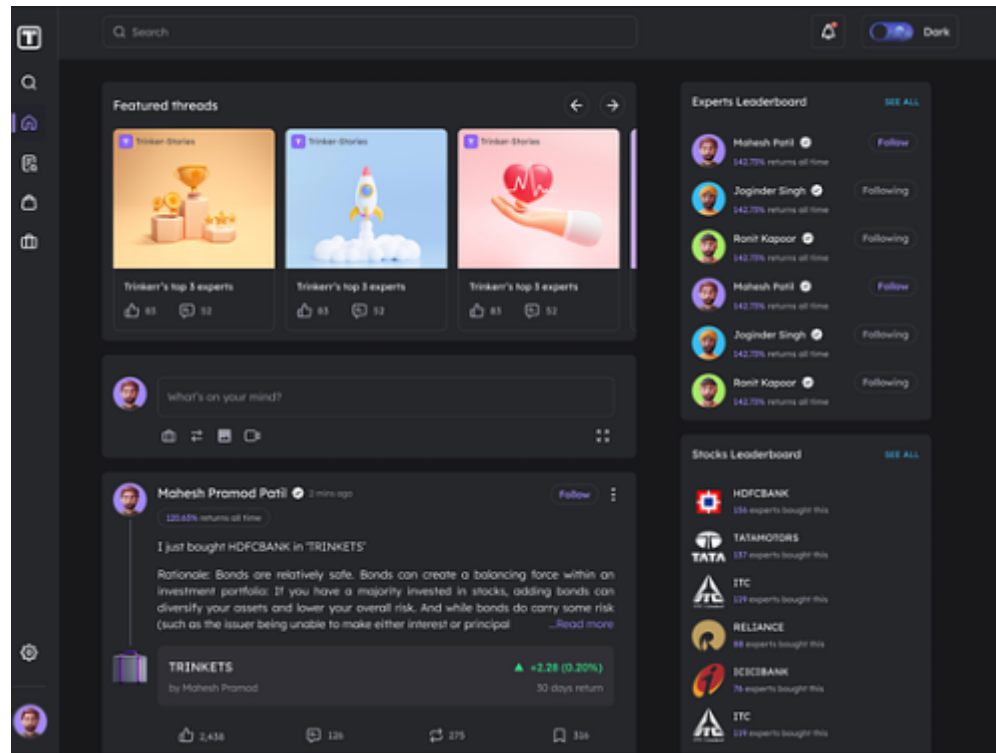


5. APIs call:

- **Authentication:** APIs for user authentication, allowing users to log in securely to their accounts.
- **Account Aggregation:** APIs to retrieve financial data from external accounts such as bank accounts
- **Transaction Data:** APIs to fetch transaction data for users' linked accounts, including details such as transaction amount, date, merchant name, and category.
- APIs to automatically send notifications and alerts by using **n8n framework** to users for various events such as unusual transaction, upcoming bill payments (optional).

6. Social forum post:

- The main section of the page typically displays a list of discussion threads or topics.
- Each thread represents a conversation or topic of interest, often organized by a specific tag.
- Users can leave comments, likes or replies on posts to contribute to the discussion, ask questions, share personal experiences, or provide additional insights.
- Filter the threads based on a tag.
- Since we are using the VueJS framework, the forum will be somewhat similar to Facebook.



7. Data handling:

Data extracted from external API calls will be in JSON format. Other type of data will be stored in a relational database.