

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	15 April 2025
Team ID	SWTID1743344524
Project Name	Personal Expense Tracker App
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template:

Step-1: Team Gathering, Collaboration, and Select the Problem Statement

Selected Problem Statement:

Difficulty in tracking and analyzing personal expenses in real-time

- **Context:**
With manual methods like spreadsheets being inefficient and error-prone, our project aims to deliver a secure, user-friendly, and automated system. This system not only tracks income and expenses but also provides real-time financial insights and a personalized dashboard experience.
- **Discussion Points:**
 - What are the main challenges users face when trying to manage their finances manually?
 - How can real-time tracking and instant feedback help users improve their financial management?
 - What factors contribute most to the stress and confusion users experience with current manual systems?

Step-2: Brainstorming & Idea Listing

Objective:

Create a free and open environment where every team member can share ideas and build upon one another's suggestions. The focus here is on collecting a wide range of creative and innovative ideas.

Ideas Brainstormed:

- **Mobile-Friendly Interface:**
Develop a responsive web application that works seamlessly on both mobile devices and desktops.
- **Real-Time Data Tracking:**
Implement live updates of financial transactions to ensure that users always have up-to-date information on their balances, income, and expenses.

- **Interactive Visualizations:**
Utilize dynamic charts and graphs for clear visual summaries of spending trends and financial health over time.
 - **Secure Login & Authentication:**
Ensure each user's data is accessed securely with encrypted login mechanisms and session management.
 - **Expense Categorization:**
Enable users to tag transactions (e.g., groceries, bills, entertainment) for better organization and analytic insights.
 - **Export Functionality:**
Allow data export options (PDF, CSV) so users can analyze their financial data with external tools if needed.
 - **Alerts and Notifications:**
Set up thresholds and notifications to remind users of overspending or upcoming bills.
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Step-3: Idea Prioritization

Prioritization Criteria:

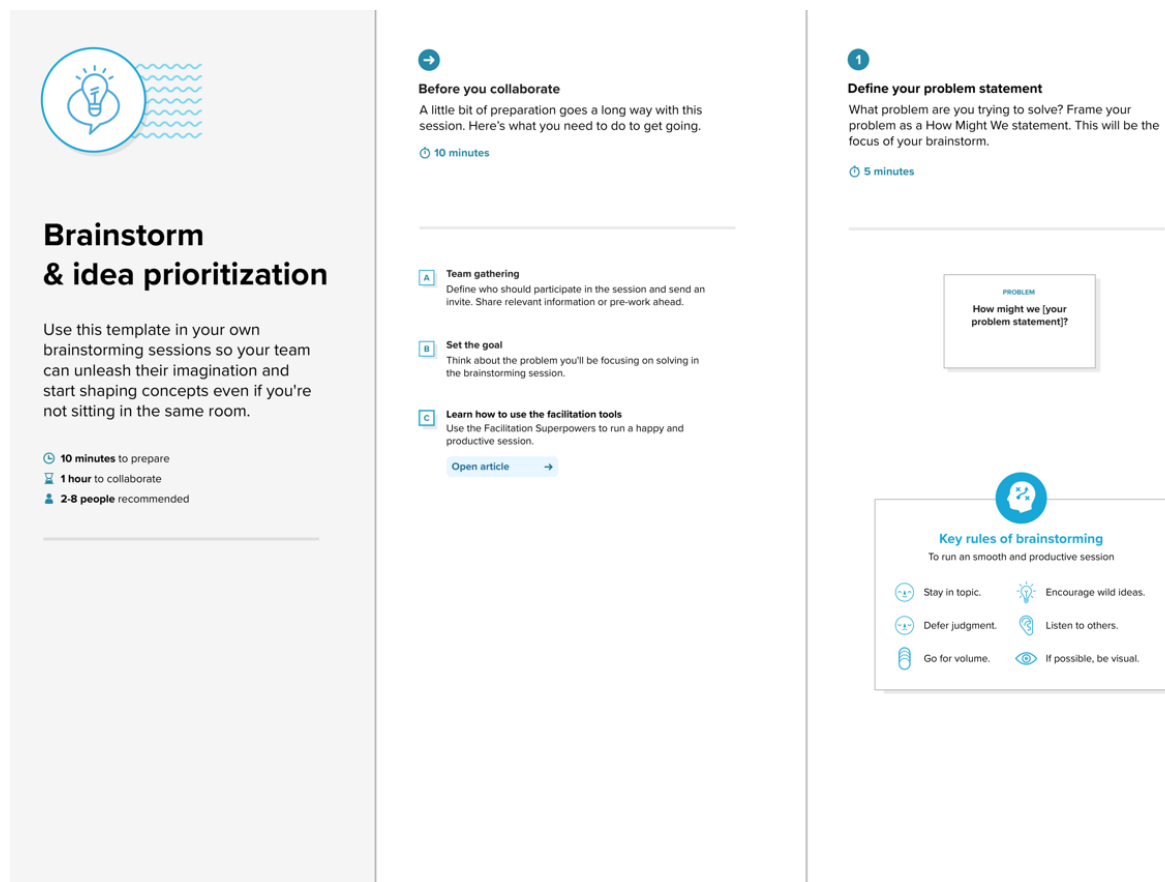
- **Alignment with User Needs:**
How effectively does the idea address the problem of manual tracking and provide real-time insights?
- **Feasibility:**
Consider the technical ease of integrating the solution using React (Vite), Node.js, Express.js, and MongoDB.
- **User Impact:**
Evaluate the potential to improve the user's daily financial management and reduce stress or errors in tracking expenses.

Prioritized Ideas List:

1. **Real-Time Transaction Tracking:**
Ensure that every change in a user's financial activity is immediately reflected on the dashboard.
2. **Secure Authentication System:**
Implement robust security features to protect user data and maintain session integrity.
3. **Interactive and Dynamic Spending Summary:**
Offer engaging visualizations (charts/graphs) that provide quick insight into financial trends.

4. Expense Categorization:

Build functionality to allow categorization of expenses, making it easier for users to identify spending patterns.



Brainstorm, Idea Listing and Grouping

Create a space for free and creative idea generation focused on overcoming the challenges of manual expense tracking. In this step, every idea is welcome, and the focus is on gathering a diverse range of solutions that can later be grouped and prioritized to shape the final product.

Ideas Generated for Smart Spend (Expense Tracker):

- **Build a Mobile-Friendly Web App:**
Develop a responsive and accessible web application that provides users the convenience to manage and track their expenses on both desktops and mobile devices, ensuring usage on the go.
- **Use Charts for Spending Insights:**
Incorporate interactive charts and graphs to visually represent spending trends, which helps users quickly grasp their financial habits and overall spending patterns.

- **Implement Authentication for Secure Access:**
Introduce a robust login system that ensures that users' financial data is secure and private, allowing only authorized access to each user's personalized transaction history.
- **Allow Categorization of Expenses:**
Enable users to assign categories (e.g., groceries, bills, entertainment) to each transaction. This organization supports better analysis and clearer insights into spending behaviors.
- **Export Data as CSV/PDF:**
Provide the option to export financial data in popular formats like CSV and PDF. This feature empowers users to keep offline records or use external tools for deeper data analysis.

Grouping the Ideas:

1. **User Experience Enhancement:**
 - *Build a Mobile-Friendly Web App*
 - *Use Charts for Spending Insights*
2. **Security & Personalization:**
 - *Implement Authentication for Secure Access*
3. **Data Management & Analysis:**
 - *Allow Categorization of Expenses*
 - *Export Data as CSV/PDF*

This structured approach of listing and grouping the ideas enables your team to quickly see the underlying themes—ranging from a seamless user experience and strong security measures to robust data management capabilities. These groups not only address the technical requirements but also ensure that the solution meets the real-world needs of users managing their expenses.

2

Brainstorm

Write down any ideas that come to mind that address your problem statement.

🕒 10 minutes

TIP

You can select a sticky note and hit the pencil (switch to sketch) icon to start drawing!

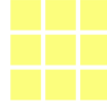
Amar



Yuktesh



Person 3



Person 4



Person 5



Person 6



Person 7



Person 8



3

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

🕒 20 minutes

TIP

Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mind.

Person 4

Step-3: Idea Prioritization**Prioritized Ideas:**

1. Real-time transaction tracking
2. Secure login system
3. Spending summary with charts
4. Expense categorization

4

Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

20 minutes

