

# Requirement Elicitation

## Brainstorming

**Date: 2025-10-26, 30-minutes**

Purpose : brainstorming ideas about Lunix requirements and features that are essential or nice to have.

Results (raw requirements):

1. CRUD operations for user profile.
2. transactions management
3. Secure Login and Register
4. Automatic Categorization of expenses and bills using AI
5. Dashboards showing analytics, total balance, income, expense summary
6. Filtering by date, category and user Information
7. Shared expenses between users
8. Group expenses with equal share calculation
9. Export data to excel/pdf files
10. Pie, bar charts to visualize analytics
11. financial summaries generated by AI
12. Notification and reminders
13. Support multiple currencies
14. Currency Converter
15. Responsive User Interface
16. Invoice generation
17. Payment and Debt tracking
18. An option to override automatic categorization manually

## 19. Data backup

# Scenarios

### **Scenario 1 - Personal Expense Tracking**

Rouliana logs into her account and adds her daily expenses such as "Groceries \$30" and "Electricity Bill \$45." The system automatically categorizes them and updates the dashboard with total expenses for the month. A pie chart shows that groceries are 40% of her spending this week.

### **Scenario 2 - Shared Expense with Friend**

Ammar and Aland go out for dinner. Ammar pays \$40 and he logs the bill under "Shared Expenses ⇒ Aland." The system sends Aland a notification that he owes \$20. Once Aland marks it as paid, both dashboards update automatically.

### **Scenario 3 - Group Trip Management**

Zozan creates a "Trip to UK" group and adds all members. Each person logs their expenses (hotel, fuel, food). The system calculates the total cost and shows how much each person owes or should receive to balance the group spending.

### **Scenario 4 - AI Spending Insights**

At the end of the month, the AI module analyzes all transactions and generates a written summary like (You spent most on Food 35% and Travel 25%. Your total expenses increased by 10% compared to last month. )

### **Scenario 5 - AI summary**

at the end of the month the system generates reports of financial expenses of this month and compare it with last month's data. (you spent 40% on food and 30% on bills)

### **Scenario 6 - AI categorization**

When the user adds an expense for example 10,000 IQD on taxi, the system uses AI and automatically label it under transportation without requiring manual input. The User also have an option to override the category if needed.

### **Scenario 7 - Filtering**

Aland filters his transactions by (Ex: Transportation) to check how much he spent on transport within a selected date.

### **Scenario 8 - Currency converter**

Zozan pays in USD while Rouliana pays in IQD, the system automatically converts the payment to a unified base currency and updates dashboards accordingly.