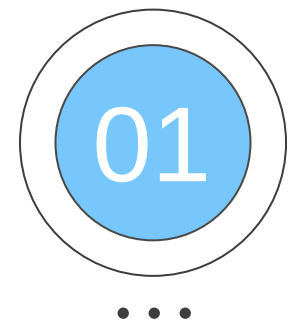


IHateMoney

Your Path to Love your Money

*A project for
Web Application Development course*

*Dang Nhat Huy - ITITIU20043
Ho Huu Hiep - ITITIU20202*



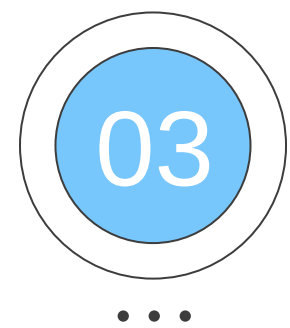
Introduction

Define problem, explain goals and scope



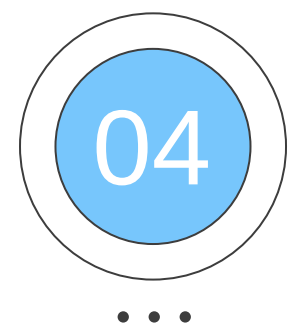
Technology Stack

Explore technologies applied for the system



Methodology

Analyze requirements and system design



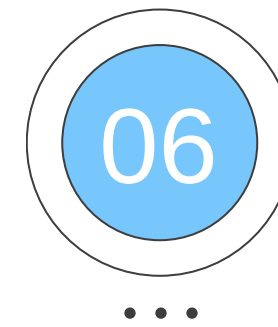
Implementation & Evaluation

Demo about the system



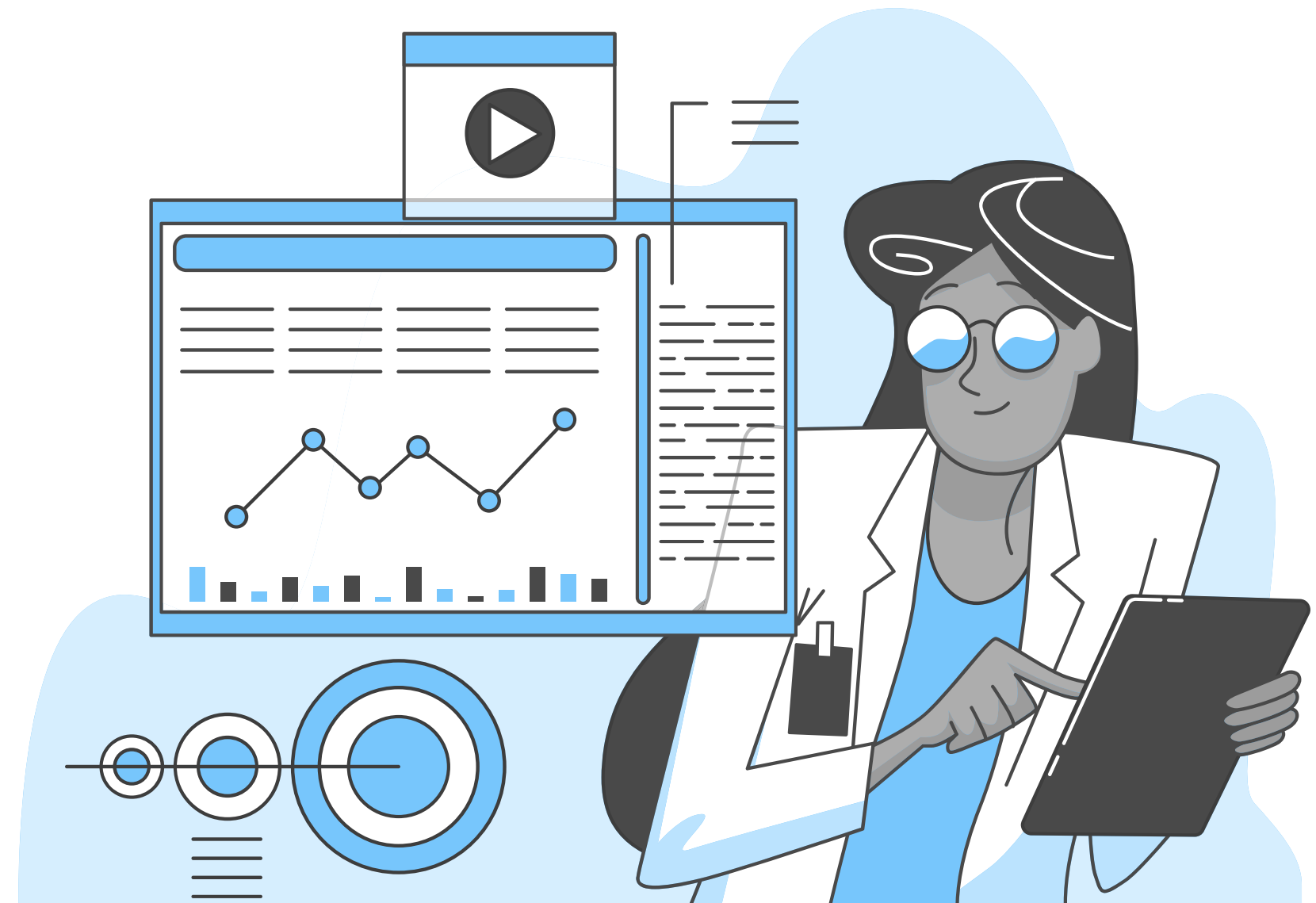
Discussion & Future Work

Anticipating future outlook and opportunities



Conclusion

Final summary



Project Features

- **User Registration and Authentication:** Securely register and log in to access financial details.
- **Dashboard:** View a snapshot of financial status, including income, expenses, and savings.
- **Expense Tracking:** Easily track and categorize income and expenses to manage budgets.
- **Income Management:** Add and manage income sources for a clear overview of cash flow.
- **Budgeting:** Set and track personalized budgets for various expense categories.
- **Reports and Analytics:** Access detailed reports and analytics to examine finances and spot spending trends.

01

Introduction

Introduction



Problem: The relentless pursuit of money causes stress and financial insecurity, leaving many overwhelmed by debt and consumerism [1].



Objective: To equip users with tools for effective financial management, promoting smarter spending and greater financial stability.



Scope: The app provides essential features like real-time expense tracking, budgeting, and data visualization to improve financial decision-making.

02

Technology Stack

Front-end Technology



Vaadin Framework



TypeScript



CSS



JavaScript

Back-end Technology



Vaadin Dependency



Java



Spring Boot



MySQL

Infrastructure and Deployment



Vaadin Charts



Highcharts JS



Microsoft Azure

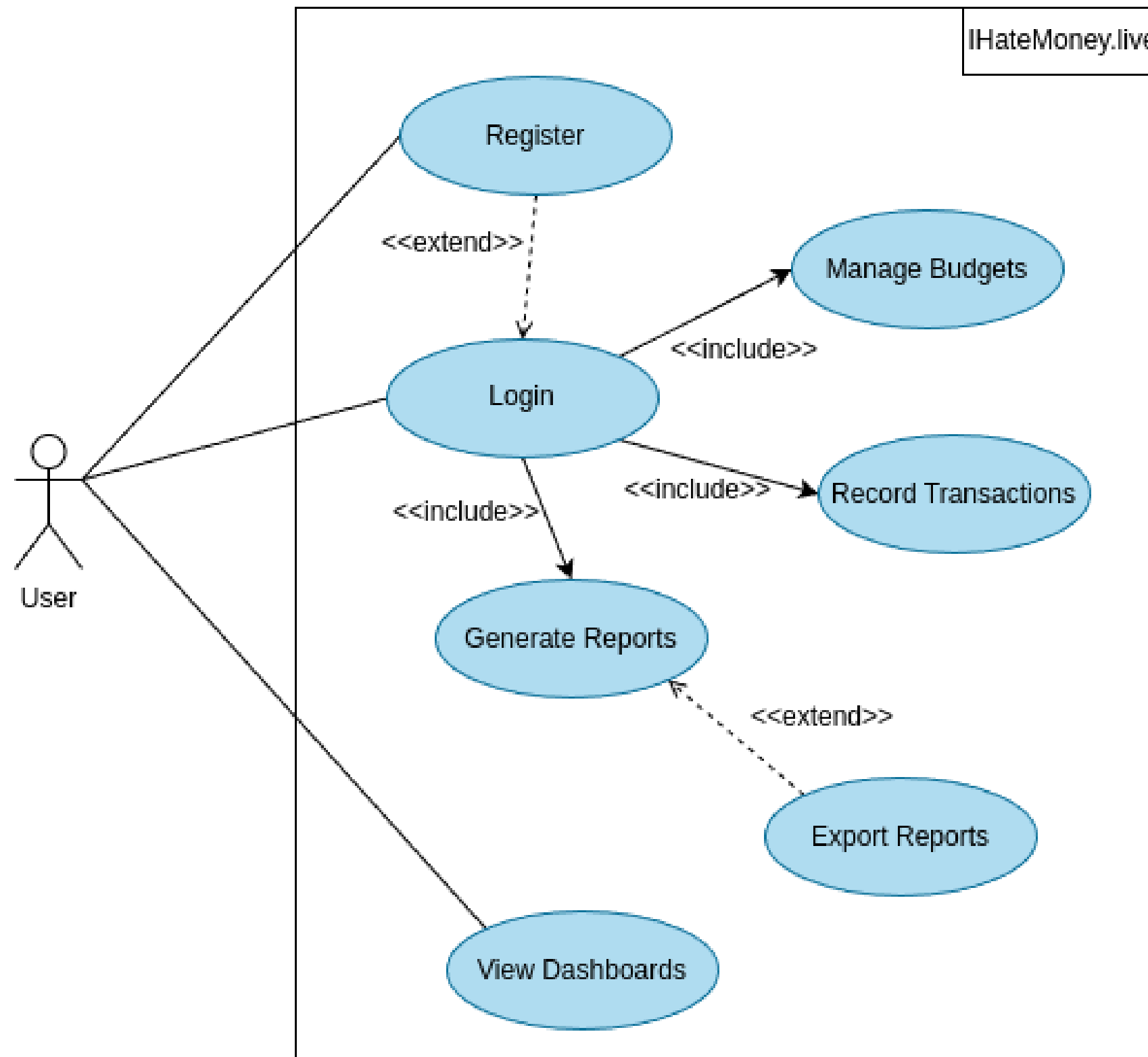


Spring Security

03

Methodology

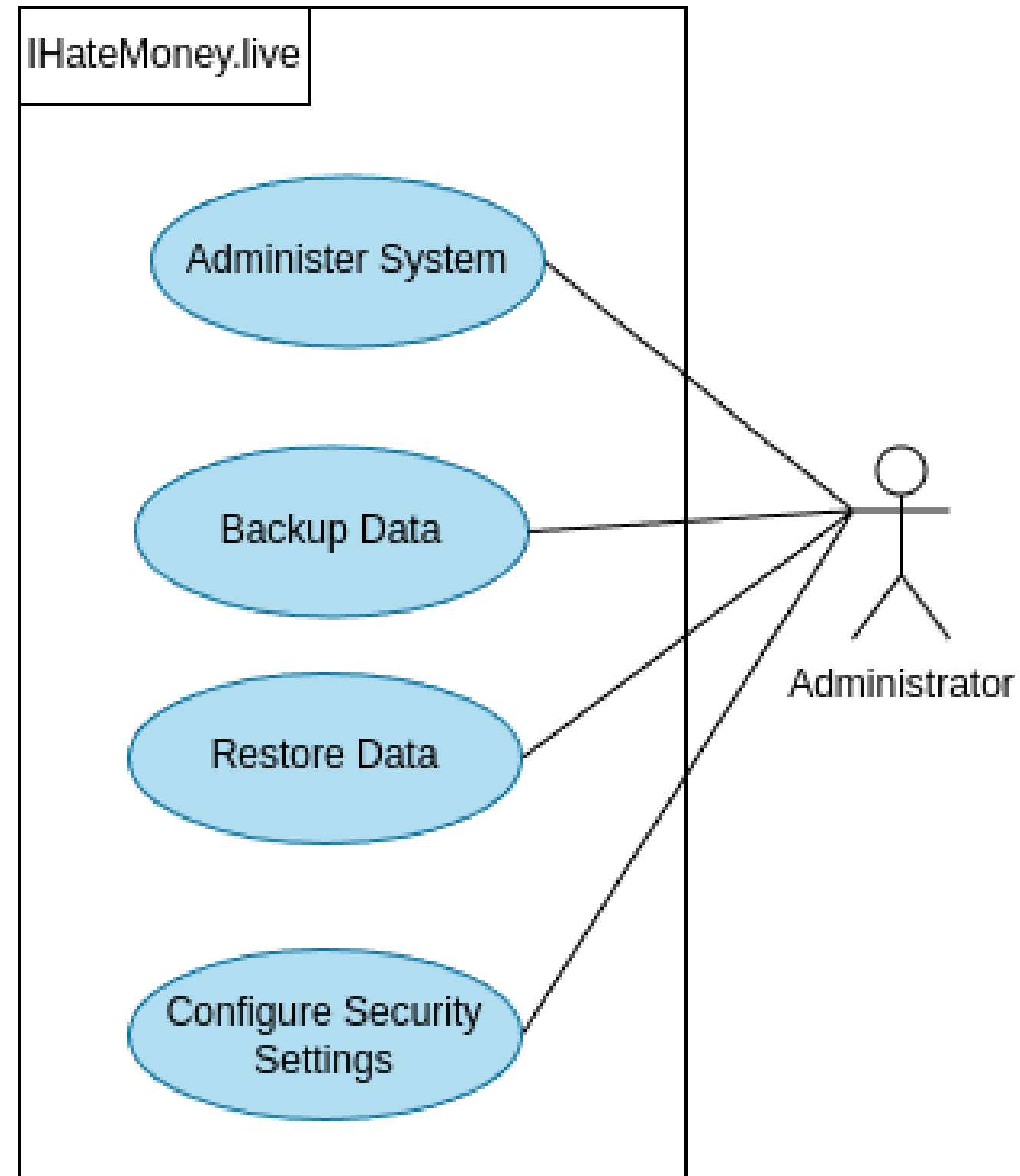
User Goal Use Case Diagram



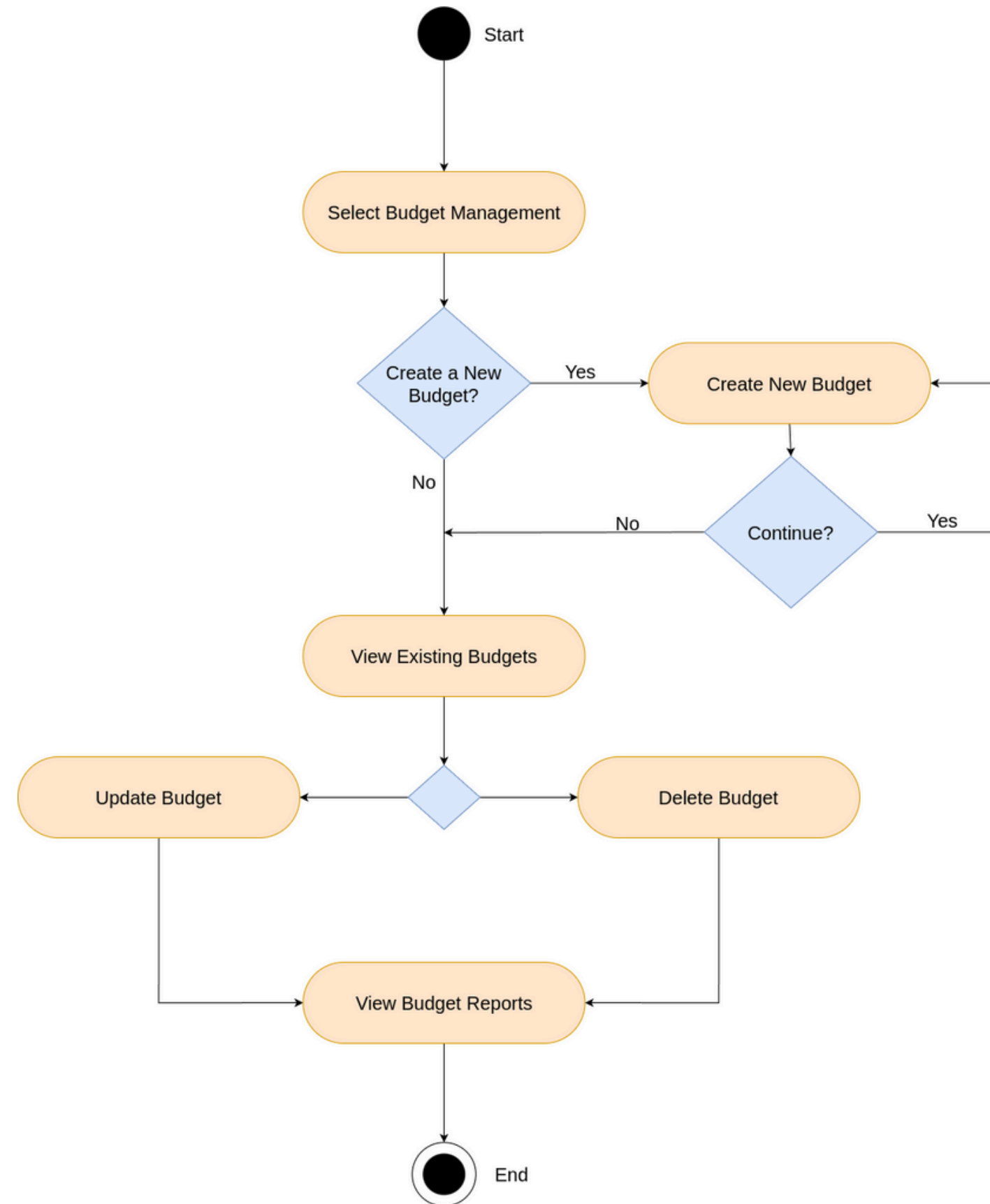
Application
User

User Goal Use Case Diagram

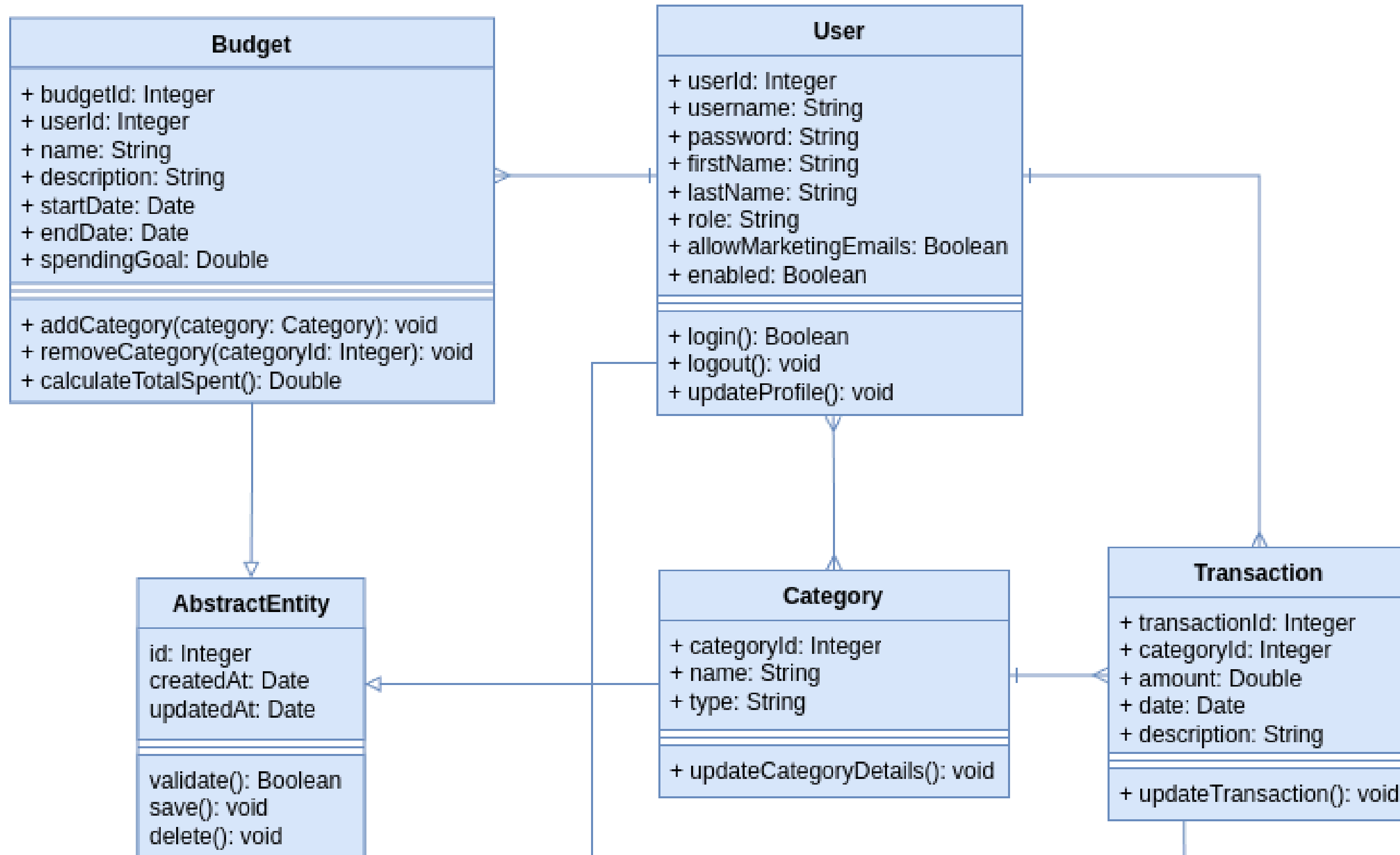
Admin
User



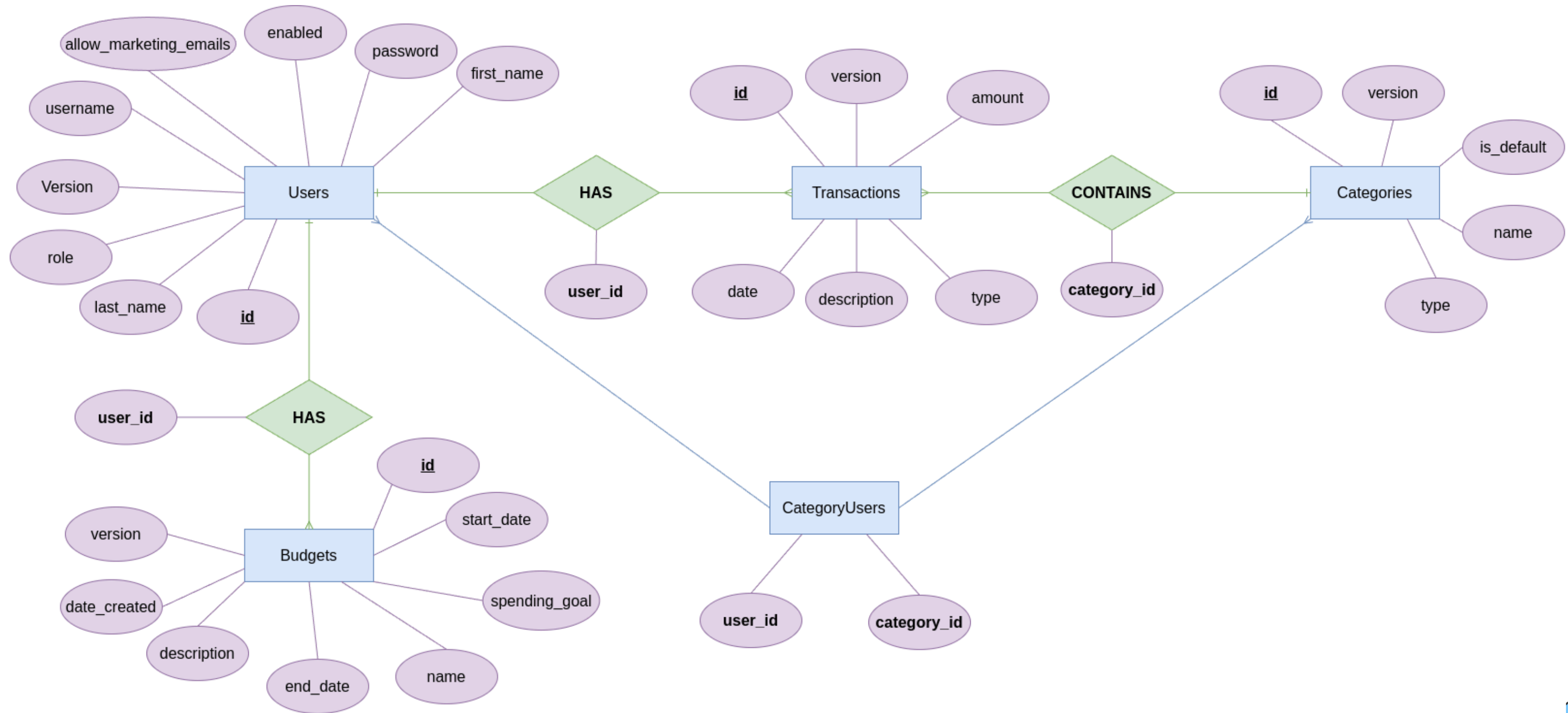
Activity Diagram



Simplified Class Diagram



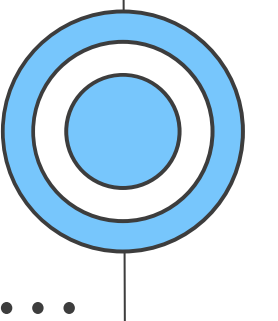
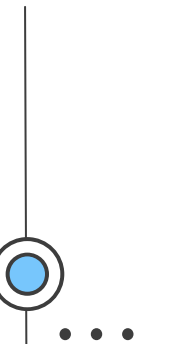
ER Diagram





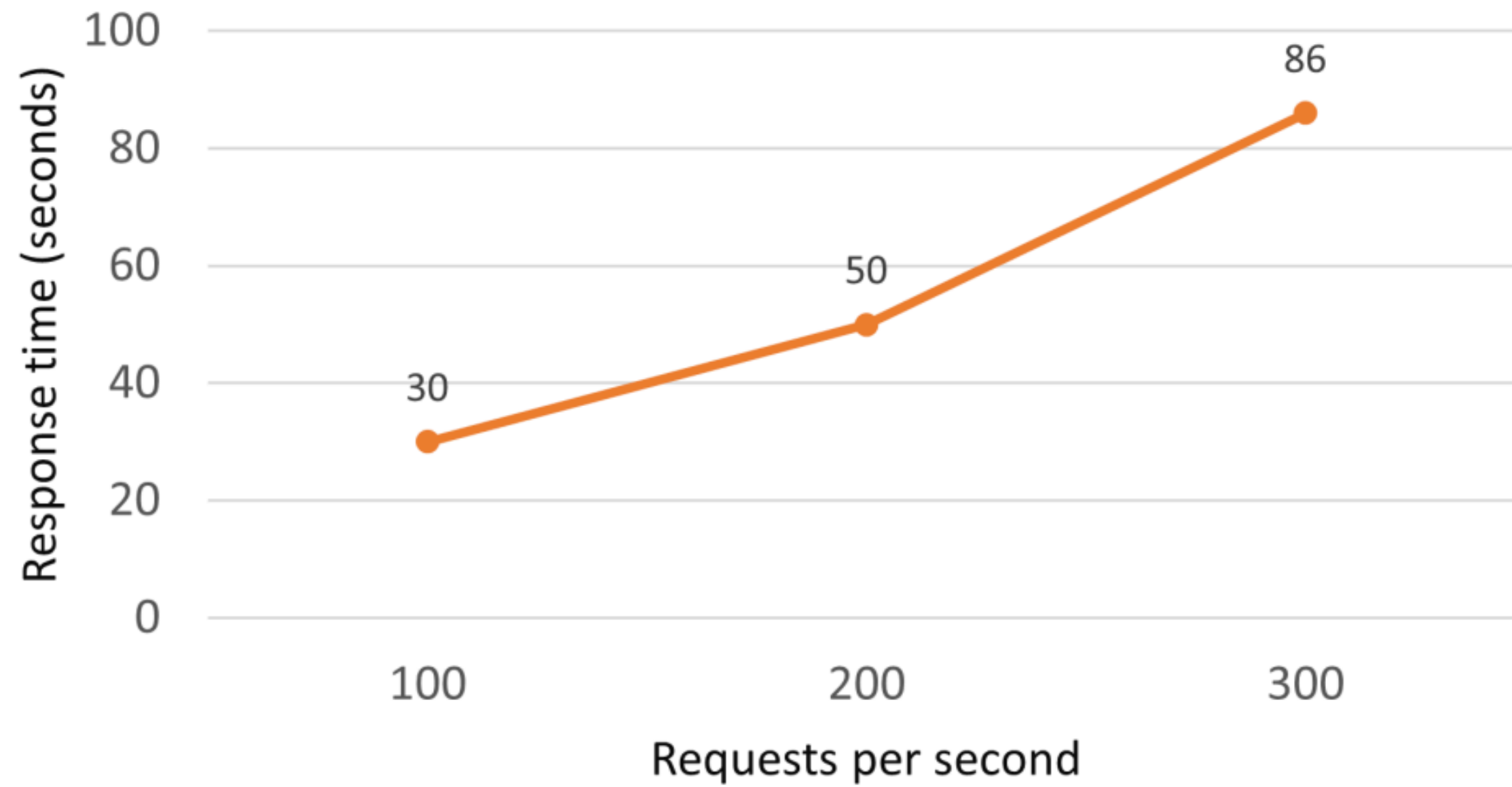
04

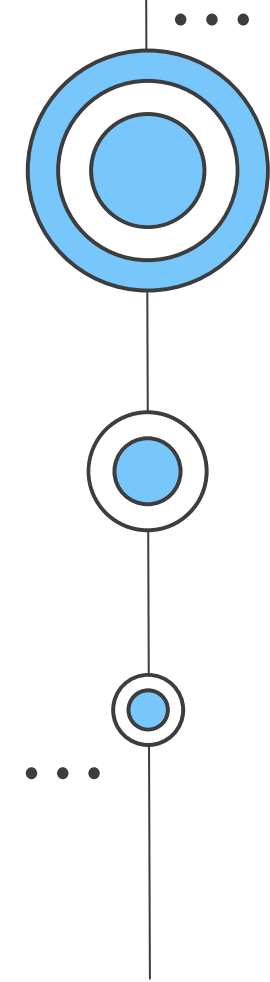
Implementation & Evaluation



Evaluation

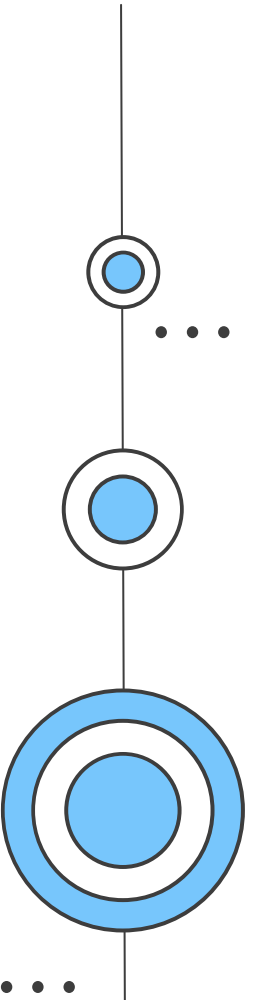
Response time





05

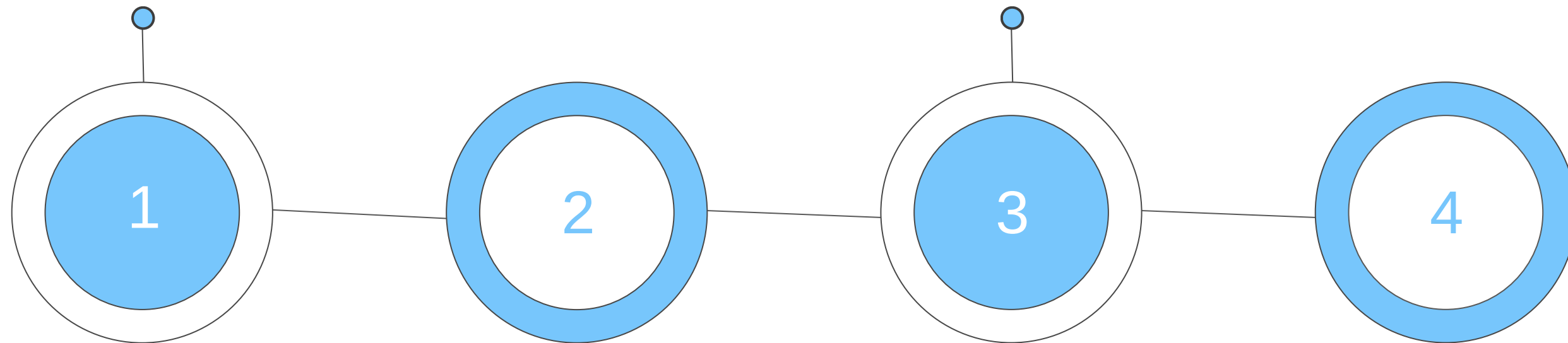
Discussion & Future Work



Discussion

User-friendly platform

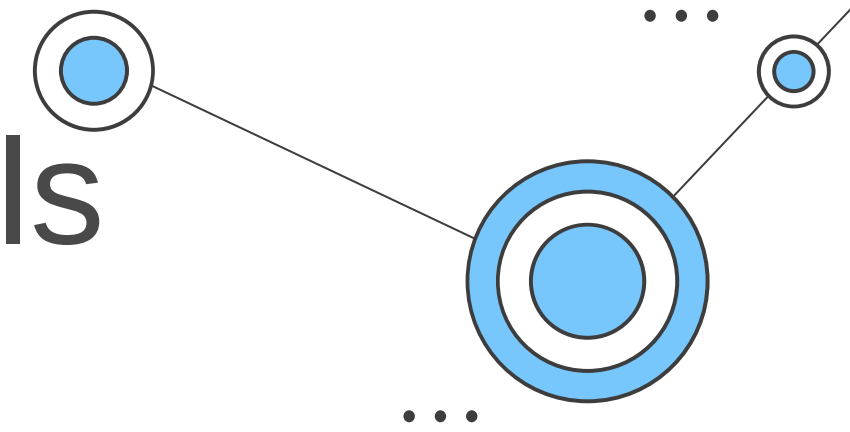
Some reports of slow
load times



Integrated budget
tracking and reporting
functionalities

Need for scalability
planning

Future Works - Short-Term Goals



Performance Improvements

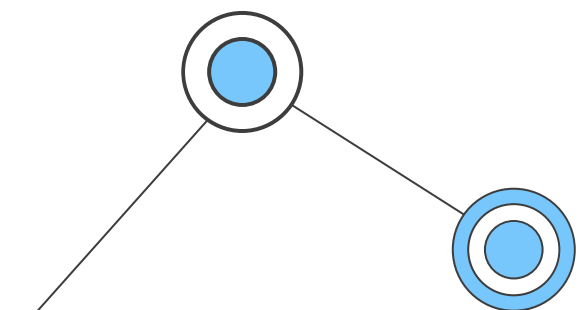
Optimize database queries

Security Upgrades

Upgrade encryption methods for data storage

Feature Enhancements

Add customizable and savable budget templates



Future Works - Long-Term Goals

Scalability

Transition to cloud services

Market Expand

Partner with financial institutions

Analytical Tools

Develop predictive analytics features

06

Conclusion

Conclusion

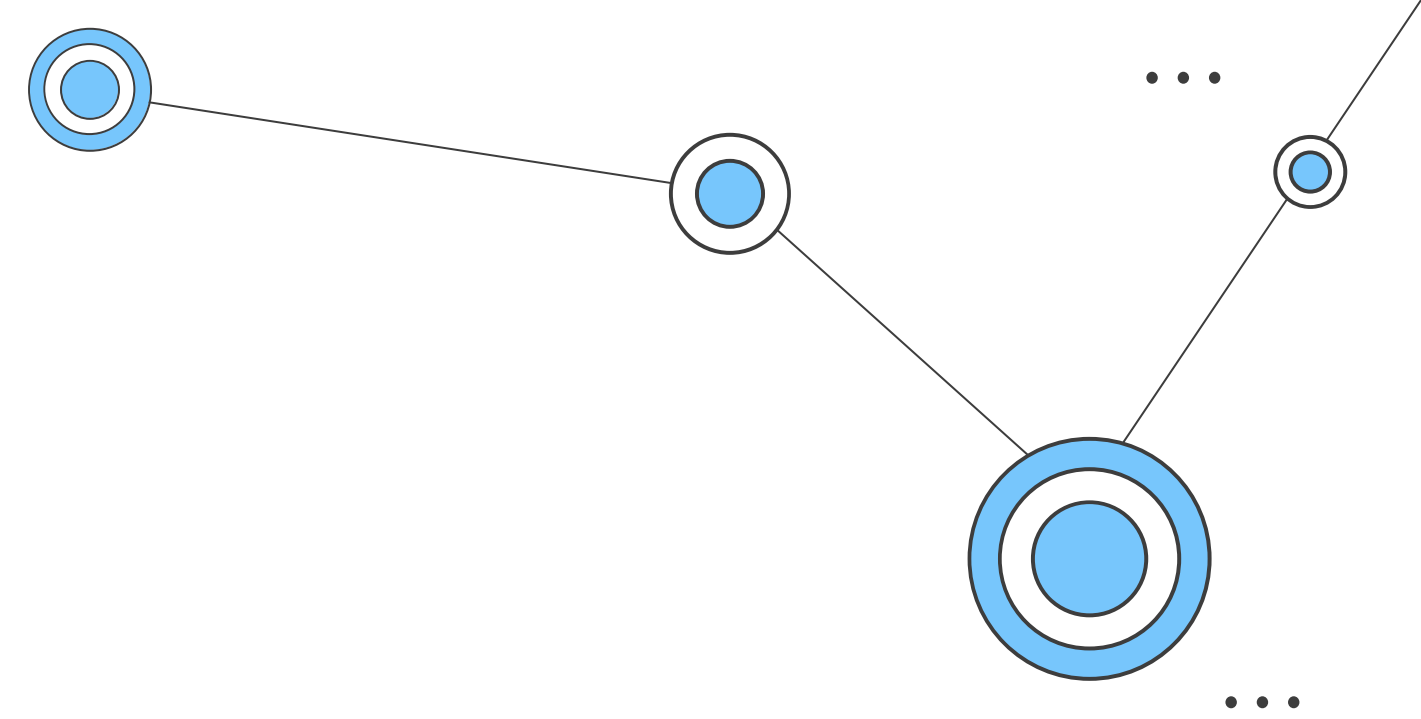
Empowerment
Through Technology

Integrated essential
features

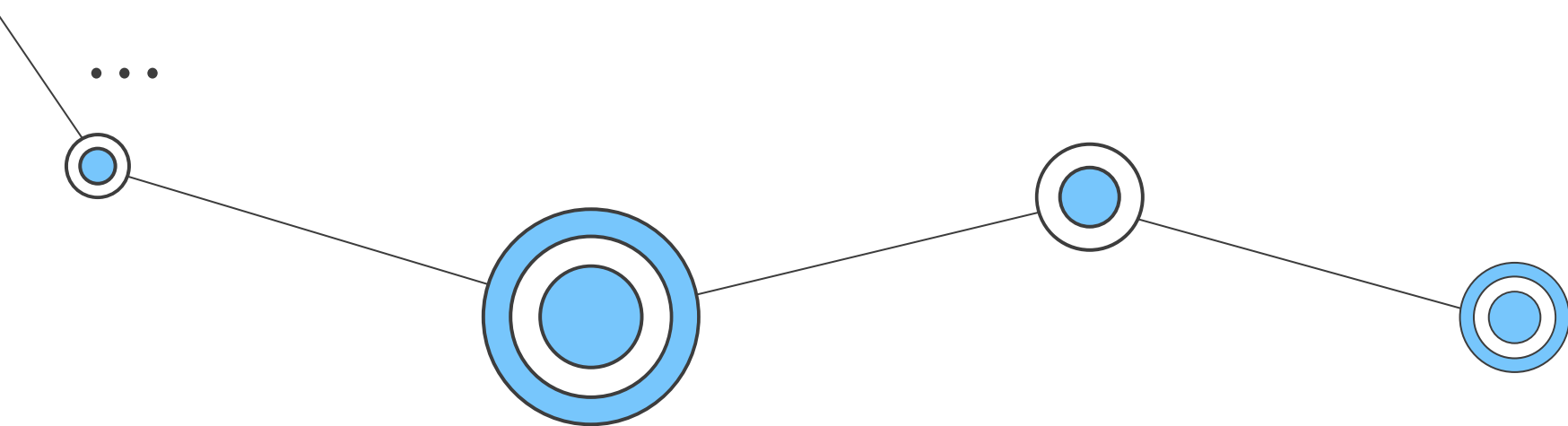
Improved financial
literacy and decision-
making



References



- [1] H. N. Odle-Dusseau, R. A. Matthews, and J. H. Wayne, “Employees’ financial insecurity and health: The underlying role of stress and work–family conflict appraisals,” *J. Occup. Organ. Psychol.*, vol. 91, no. 3, pp. 546–568, Sep. 2018, doi: 10.1111/joop.12216.





Thanks!

for paying attention