

# LedgerMan: A Peer-to-Peer Financial Management Portal

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## Objectives

**LedgerMan** is a peer to peer financial management platform that empowers individuals and groups alike to the expertise of industry-leading money management experts. LedgerMan aims to provide the following services:

- A peer to peer lending platform connecting credit seekers with lenders at suitable rates.
- Connecting individuals and groups to credible Direct Mutual Fund investment schemes, handpicked by user ratings.
- Hassle free money management services through UPI number.
- Cap-free investment valuation opportunities.

## Introduction

**Financial management** is the process of budgeting, saving, investing, spending or otherwise overseeing the capital usage of an individual or group.

In the growing financial technology market, **personal finance** is the financial management which an individual or a family unit performs to budget, save, and spend monetary resources over time, taking into account various risks and future life events. Through LedgerMan, we aim to provide a one-stop solution for managing individual and group finances in a way which is secure, efficient and above-all user-friendly.

We will provide higher-level details of its implementation through **UML diagrams**, as well as the business model followed. We will also provide citations for the articles referred.



## Key Innovation

LedgerMan has the following salient features:

- **Validation** of consumer and lender records through prior transaction history.
- **Seamless** and atomic bank transaction queries using UPI pin and account information.
- **No** lower monetary cap on Direct Mutual Fund investments.

In addition, the following services have been implemented:

- 1 **Easy** account information querying.
- 2 **Hand-picked** Mutual Fund investment options.
- 3 **Access** to user ratings and contact information.

## Business Model

LedgerMan's business model follows the a similar strategy to that of most **commission** models employed by standard brokerage companies or auction houses. We charge a **fee per transaction** that we mediate. This is done in the following way:

- 1 Portal access is provided free of cost.
- 2 We charge a modest one-time amount of **US \$7** for every borrower-lender transaction made, irrespective of transaction currency.
- 3 For Direct Mutual Funds, we charge a modest **2%** over the net surplus achieved by the consumer when the scheme matures.
- 4 All other services are provided free of cost.

## Schema & Query Implementation

The following selected queries have been implemented in the code:

- **User and Account Information**
- **Past History By Account**
- **Ranking Mutual Funds By Returns**
- **Total Charge Incurred By Account**

## References

- [1] Dan Kadlec.  
*Why We Want-But Can't Have-Personal Finance in Schools.*  
Time, October 2013.
- [2] Friedrich Schwandt.  
*FinTech Report 2018 - Personal Finance.*  
Statista, March 2018.

## Unique Application

As of November 2018, there is **no other** financial management portal in the active industry or open source that combines the features of peer-to-peer money management and low cost investment opportunities.

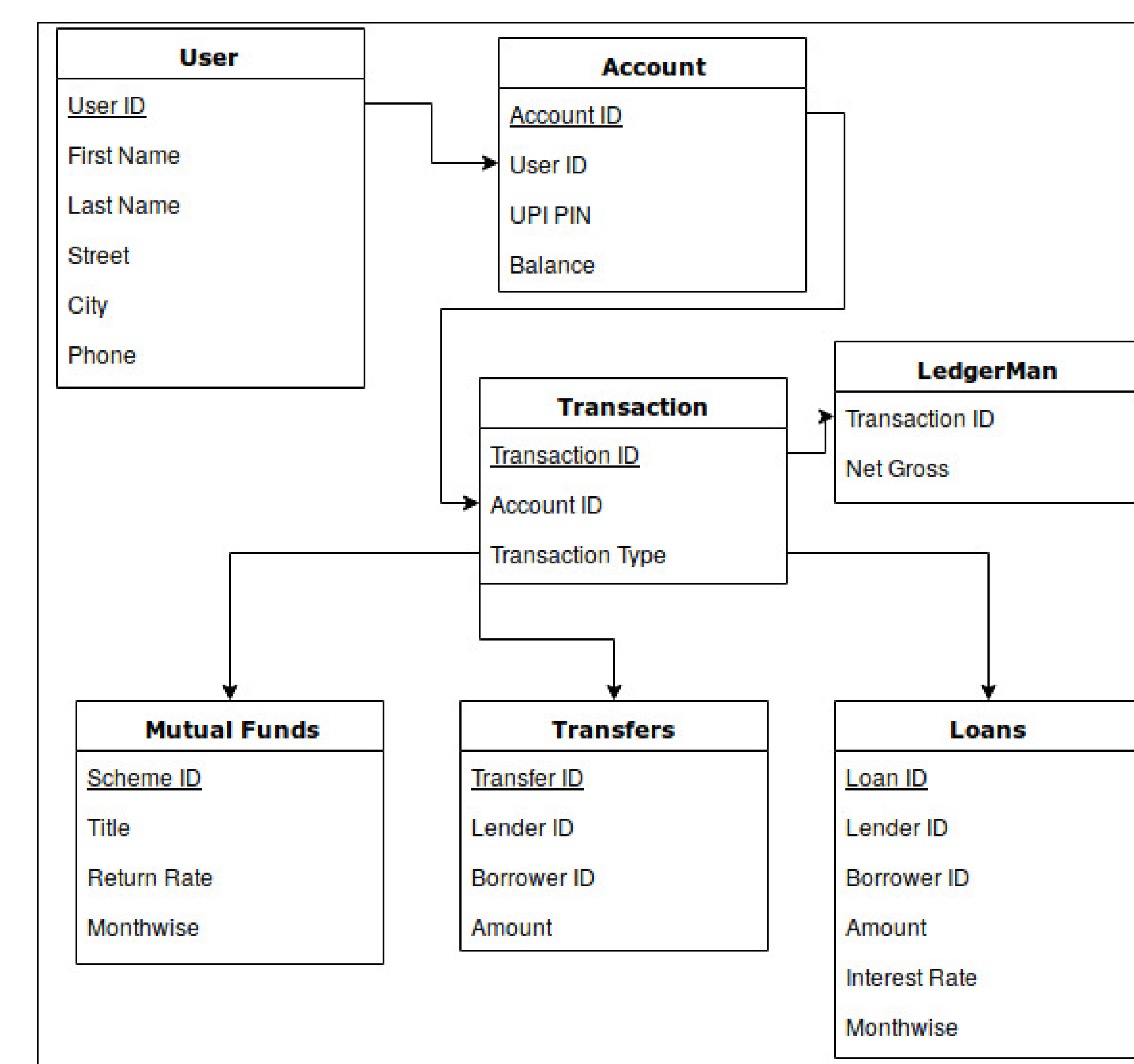
## Application to the Society

Before a specialty in personal finance was developed, various disciplines which are closely related to it were taught in various colleges as part of home economics for over a century.

According to a survey done by Harris Interactive, **99%** of the adults agreed that personal finance should be taught in schools [1]. The following points emphasize the importance of personal finance industry in India [2]:

- Total transaction value in the personal finance segment amounts to **US \$863m** in 2018.
- Total transaction value is expected to show an annual growth rate (CAGR 2018-2022) of **25.1%** resulting in the total amount of **US \$2,113m**.
- The market's largest segment is P2P money transfers with a total transaction value of **US \$839m** in 2018.

## Database Design



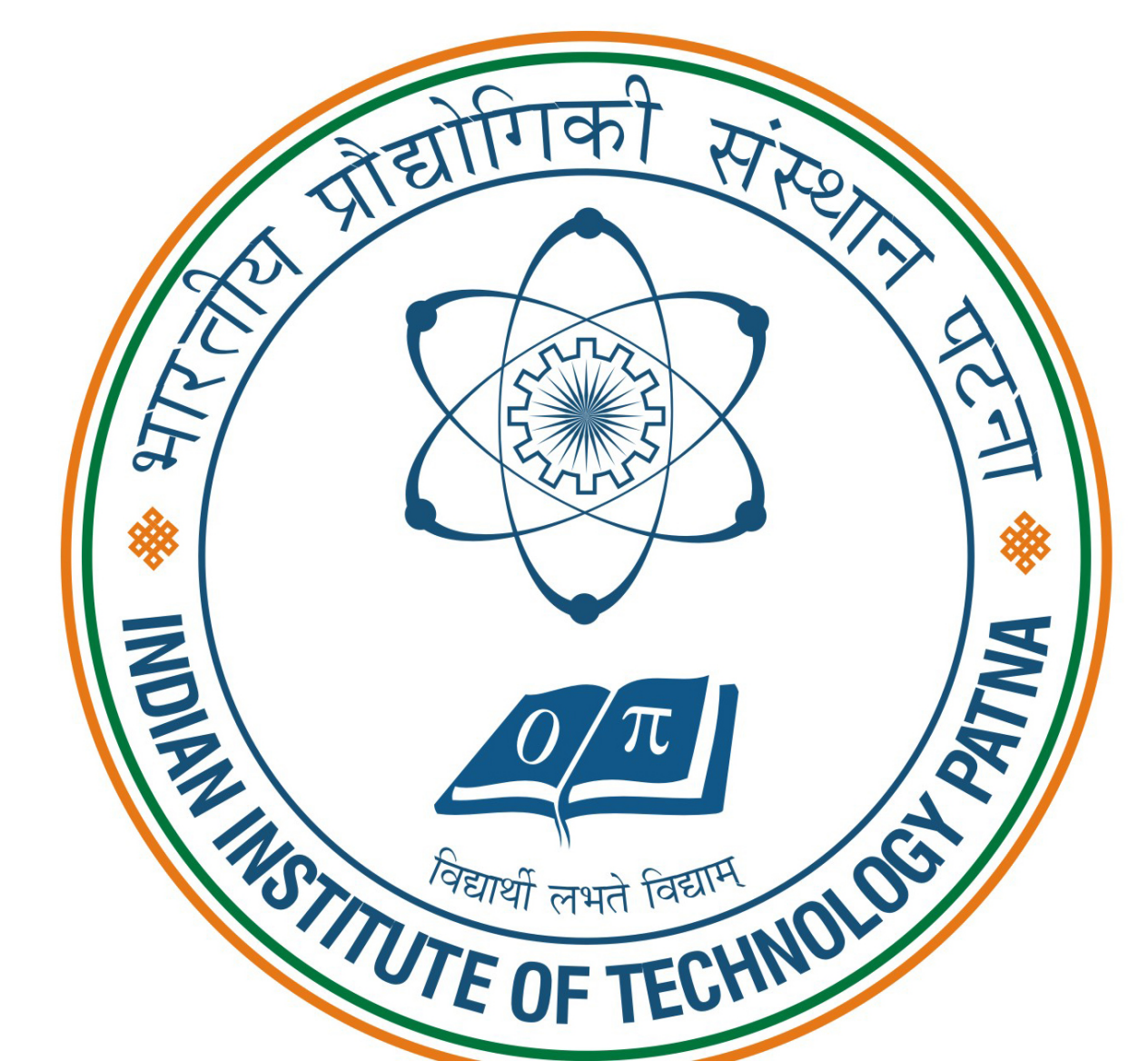
UML Schema

## Acknowledgements

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## Contact Information

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