# Title

RothScope

# Description

Create a tool that calculates the optimal time and/or amount to convert tax-deferred retirement account funds into a Roth account using Moneytree’s calculation engine.

# Contact

Moneytree Project Owner: [alex.long@moneytree.com](mailto:alex.long@moneytree.com)

Technical Mentor: [evan.knapke@trustasc.com](mailto:evan.knapke@trustasc.com)

# Target users

* Primary target: Moneytree users (financial advisors/planners) who wish to provide detailed Roth conversion analysis to their financial plans.
* Secondary target: Cheetah users who have customers with large tax-deferred retirement account balances that want to quickly evaluate Roth conversion strategies.

# High-level features

* Provide basic parameters needed to run tax calculations for an individual:
  + Retirement age and life expectancy
  + Existing asset balances across non-qualified and qualified assets
  + Expected performance on assets
  + Current sources of income
  + Total annual expenses
* Run a basic “as-is” tax calculation off of the above information
* Define parameters of the Roth conversion:
  + Select objective(s) of the Roth conversion, such as:
    - Minimize cumulative taxes
    - Maximize ending total assets
  + Enter target start age and length of the conversion
* Rerun tax calculations following the above parameters until the optimal result is found

# Tech-stack

* .NET for backend
* Vue.jx for frontend
* Microsoft SQL Server or PostgreSQL for Database

# Similar tools

* Holistiplan is a tax focused software that gained popularity for the Roth conversion tools (<https://www.holistiplan.com/>)
* Various consumer-facing online tools (such as Fidelity’s calculator) (<https://www.fidelity.com/calculators-tools/roth-conversion-calculator/>)
* Moneytree Elite can model Roth Conversions, with the amounts and period manually defined by the user, with no optimization (which is what we are solving for with this project) (<https://moneytree.com/>)

# Extra information

Moneytree is a financial planning application made for financial advisors and financial planners who wish to provide in-depth financial insights for their clients. It contains logic to calculate Roth conversions and determine their impact on an one’s taxes and assets. However, the parameters are entirely defined by the user. It has no logic to determine the optimal timing or amount for a Roth conversion.