**Personal Finance Manager**

*Objective:* To develop a basic finance planner for beginners who have or are just about start their investment journey. This will help users to get an idea of how to save and invest money.

*Motivation:* The motivation behind this project is the fact that many people struggle with handling their finances in the beginning of their career. To become financially independent, it is very important to start the journey as early as possible.

*References:* There are various types of calculators available for calculating returns to a user’s investment. E.g. - [Financial Planning Calculators - Groww | Calculate Your Investment Online](https://groww.in/calculators)

*Novelty:* This financial planner is different from regular calculators. While regular calculators only take and need certain metrics into account like amount invested, rate of return, time of investment etc., this financial planner takes users basic salary, expenses and suggests diversification of portfolio based on how much a user can invest and calculates expected returns over preferred times.

***Architecture***

* This software will have 3 main phases: Database, Back-end program, Front-end GUI.

Data is shown to user using GUI

User inputs data in GUI and it is stored in database

User data is accessed from the back-end program and is processed for recommendations.

***Tools***

* Front-End Software: Java Swing
* Back-End Program: Java
* Database: PostgreSQL