User Manual:

When opening the program, ensure that a Java JDK of 17 is installed and open the file directly into the command prompt. Type in “java -jar FinancialManager.jar” into the command line to start the program.

1. Type “help” in order to open up the initial command menu and type in which option you would like to continue to: (a) the help menu, (b) the login menu, (c) the create account menu, and (d) exit.
2. **The Help Menu**

Once “help’ is entered into the program, you will be taken to page the first initial command menu and you can pick new options.

1. **The Login Menu**

Once “login” is entered into the program, you should be taken to a screen where it prompts for the user's username and password. If the user has an account previously created, then the program will continue on to the \_\_ menu. If the user does not have an account previously created, the login will not work and they should move to the create new account menu.

1. **The Create New Account**

Once “account new” is entered into the program, you should be prompted to enter a first name, last name, birthday, social security number, username, password, gross income, and marital status. This information is then saved into your account to be later used for calculations.

1. **Exit**

Once “exit” is entered into the program, the program will terminate and the user will be logged out.

2. Once the user is successfully logged in, they will be prompted to enter a command. Type

“help” to be taken to a new options menu that contains the options: (a) the help menu, (b)

my profile page, (c) new investment page, (d) my investments, (e) mng investments, (f) logout, and (g) del account.

1. **The Help Menu**

Once “help” is entered into the program, the help menu with the multiple options of how to manage investments will appear and a new path can be chosen.

1. **My Profile**

Once “my profile” is entered into the program, the user should be taken to a page where all the profile information is displayed and the gross income, net income, taxes, and total investments will be displayed.

1. **New Investment Page**

Once “new investment” is entered into the program, the user will be prompted to enter 1 of 4 options, (1) Total Investment Value (pre-tax), (2) Total Investment Value (post-tax), (3) Percentage of Gross Income, and (4) Percentage of Net Income.

1. *Total Investment Value (pre-tax)*

Once the user chooses option 1, they will be prompted to enter their investment total pre-tax, the investment name, the account number, and annual investment rate.

1. *Total Investment Value (post-tax)*

Once the user chooses option 2, they will be prompted to enter their investment total post-tax, the investment name, the account number, and annual investment rate.

1. *Percentage of Gross Income*

Once the user chooses option 3, they will be prompted to enter their investment percentage, investment name, account number, and annual interest rate.

1. *Percentage of Net Income*

Once the user chooses option 4, they will be prompted to enter their investment percentage, investment name, account number, and annual interest rate.

1. **My Investments**

Once “my investments” is entered into the program, the user will be shown all the investments that have been entered with the ‘New Investment” command.

1. **Manage Investments**

Once “mng investments” is entered into the program, the user will be prompted to enter the name of an investment that has already been entered with the “New Investment” page. Once the investment name has been entered, the user can type “help” and be taken to a command menu that displays a menu containing (1) help, (2) investment future, (3) calculator, and (4) exit investment.

1. *Help*

Once ‘help’ is entered into the program, the user will be taken to the menu that contains all the options to be typed into the command program.

1. *Investment Future*

Once “investment future'' is entered into the program, the user is taken to a page that displays a prediction table of how their \ investment will grow over 10 years with the previously entered percent interest.

1. *Calculator*

Once “calculator” is entered into the program, the user will be taken to another menu page that contains 4 options: (a) compound interest investment, (b) Simple interest time needed to achieve goal, (c) Simple interest interest rate needed to achieve goal, and (d) Simple interest rate needed to achieve goal calculation.

1. *Compound Interest Investment Calculator*

Once option 1 is entered into the program, the user will be prompted to enter their principal amount of money, the annual interest rate, the period of investment in years, the compound frequency, and will be given the projected future total.

1. *Simple Interest Time Needed to Achieve Goal Calculation*

Once option 2 is entered into the program, the user will be prompted to enter the principal amount of money they want to invest, the annual interest rate, the period of investment in years, and will be given the final projected total.

1. *Simple Interest Interest Rate Needed to Achieve Goal Calculation*

Once option 3 is entered into the program, the user will be prompted to enter their investment goal, the principal amount of money they want to enter, the interest rate, and will be given back how long it will take to reach their goal.

1. *Simple Interest Rate Needed to Achieve Goal Calculation*

Once option 4 is entered into the program, the user will be prompted to enter their investment goal, their principal amount of money, the total time they want to invest, and they will be given back the interest rate it will take to reach that total amount.

1. *Exit Investment*

Once “exit investment” is entered the user will be taken out of the investment section and taken back to the previous help menu.

1. **Logout**

Once the user types “logout” into the command line, they will be logged out of the program and taken back to the initial command line and help screen.

1. **Delete Account**

If the user types “del account”, then their created account will be deleted and they will be taken back to the initial command line and help screen.

Below the commands given above, the user should find a menu that has the following

options: (a) set name, (b) set income, (c) set marital, (d) set birthday, (e) set username, (d)

set password, and (e) taxes.

1. **Set Name**

Once the user enters “set name” into the program, they will be taken to a screen that allows them to change the name located in their profile.

1. **Set Income**

Once the user enters “set income” into the program, they will be taken to a screen that allows them to change the initial income that is located in their profile.

1. **Set Marital**

Once the user enters “set marital” into the program, they will be taken to a screen that allows them to change the marital status that is located in their profile.

1. **Set Birthday**

Once the user enters “set birthday” into the program, they will be taken to a screen that allows them to change the initial birthday that is located in their profile.

1. **Set Username**

Once the user enters “set username” into the program, they will be taken to a screen that allows them to change the initial username that is located in their profile.

1. **Set Password**

Once the user enters “set password” into the program, they will be taken to a screen that allows them to change the initial password that is located in their profile.

1. **Taxes**

Once the user enters “taxes” into the program, they will be taken to a screen that displays the known tax information about the user.

If at any point the user enters an incorrect command, the program will output a statement claiming it as invalid and ask for another input. If the user gets stuck in a bug inside of the program, they can enter ‘command “c”’ on the keyboard and it will completely terminate the program.