Final Project

# Project Status Report I

## Topic Overview

1. The name of the application is a Certificate of Deposit rate calculator.
2. The purpose of this application is to take in a rate, term and deposit amount from the user and it would calculate the dividends or interest that compounds daily over the term of the Certificate of Deposit (CD)
3. I am creating this application because I use a similar function in my job in banking and would like to explore creating this function and see the back end of the software I use currently at my work.
4. I would like this application to accomplish reporting back to the user interest rates and the amount of dividends plus the original deposit after the completion of the term.
5. The target audience would be for bankers or for the general public who would like to project the profits they would make if they locked money into a CD. Therefore, this application could be used for any audience, but would probably mostly be used by someone in the banking world.

## Outline of GUI Application

1. Window 1 – (Select term of CD)
   1. Label 1 – “Select a term for your CD”
   2. Combobox 1 – Multiple choice selection of CD term
   3. Button 1 – (Go to window 2 after validating Combobox 1)
   4. Image 1 – Image of a bank
2. Window 2
   1. Entry 1 – Principle to be invested by user.
   2. Button 2 – Calculate average dividends per month & ending capital after validated Entry 1.
   3. Label 2 – Average dividends per month.
   4. Label 3 – Ending capital.
   5. Button 3 – Exit.
   6. Image 2 – Image of money with a lock around it.

# Project Status Report II

## Completed Steps

* Backend functions to calculate outputs are coded.
* Images are selected.
* CD term data are saved.
* Project is uploaded to GitHub.

The selected images are:

 

The CD term data, taken from Purdue Federal Credit Union,[[1]](#footnote-1) are:

A screenshot of a table

Description automatically generated

## Future Work

* Integrate backend functions into a GUI, according to the outline.
* Implement input validation for GUI
* Implement test cases
* Write user manual

# GitHub Link

The local git repository was pushed to my husband Winston’s GitHub account. It is public and can be found with the following link:

<https://github.com/winstonlevin/ravin_final_project_sdev140.git>

1. <https://www.purduefed.com/Personal/Accounts/Share-Certificates/Special-Share-Certificates> [↑](#footnote-ref-1)