

## **Assignment # 2**

### **Financial Services Information Systems**

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- **Application:** The GUI Application is a web application.
- **Programming Languages:** The programming languages used are HTML, JSP and bootstrap css. We could have integrated JAVA as well but since we are not required to store data anywhere. Every thing can be done on client-side.
- **Tools Used:** Application was written using Eclipse IDE 2020-12. For deploying the application Tomcat 9 (version 9.0.44) is used.
- **Source files:** Source files include index.html which is first page of application where input values i.e., loan amount, interest rate etc, calculate.jsp is 2<sup>nd</sup> page of application where all the calculation are performed in real time on client side and the output is displayed in the form of a table. Bootstrap file used are in folder named css.
- **Important Info:** Even though user can input loan period in the form of years and months. The amortization schedule is always shown in the form of months.
- **Use:** User have to input all the values otherwise user can't proceed as all the values are required. User can use clear button to clear all the values in case they input wrong values. Once the correct values are entered user can click calculate to get their calculations in the form of table.
- **How to run:** To run the application on your local machine you will need tomcat server (tomcat 9.0.44 recommended). Once you have the tomcat server up and running, all you need to do is deploy .War file using the GUI manager of tomcat.
- **Example:** Given below is an example where, loan amount is 12,000, Interest rate is 5.25 and loan period is 12 months.

## Amortization Scheduler

**Loan Amount**

**Annual Interest Rate**

**Loan Period**

**Loan Period Type**

☒ Months
 ☐ years

Calculate

Clear

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*Figure 1: index.html (user have to input values)*

## Amortization Schedule

Payment No	Payment Amount	Principal Amount Paid	Interest Amount Paid	Loan Outstanding Balance
1	1028.67	976.17	52.50	11023.83
2	1028.67	980.44	48.23	10043.40
3	1028.67	984.73	43.94	9058.67
4	1028.67	989.03	39.63	8069.64
5	1028.67	993.36	35.30	7076.28
6	1028.67	997.71	30.96	6078.57
7	1028.67	1002.07	26.59	5076.50
8	1028.67	1006.46	22.21	4070.05
9	1028.67	1010.86	17.81	3059.19
10	1028.67	1015.28	13.38	2043.91
11	1028.67	1019.72	8.94	1024.18
12	1028.67	1024.18	4.48	-0.00

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Figure 2: Amortization Schedule in months for a loan of 12000 with interest rate of 5.25%