

Baba-Bank – TI-515 Web Programing



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UML Diagram Report

Here is our **Table Structure Diagram** which is the base of our project. We decided to represent a bank system with different tables : advisor, client, loan, account and payment.

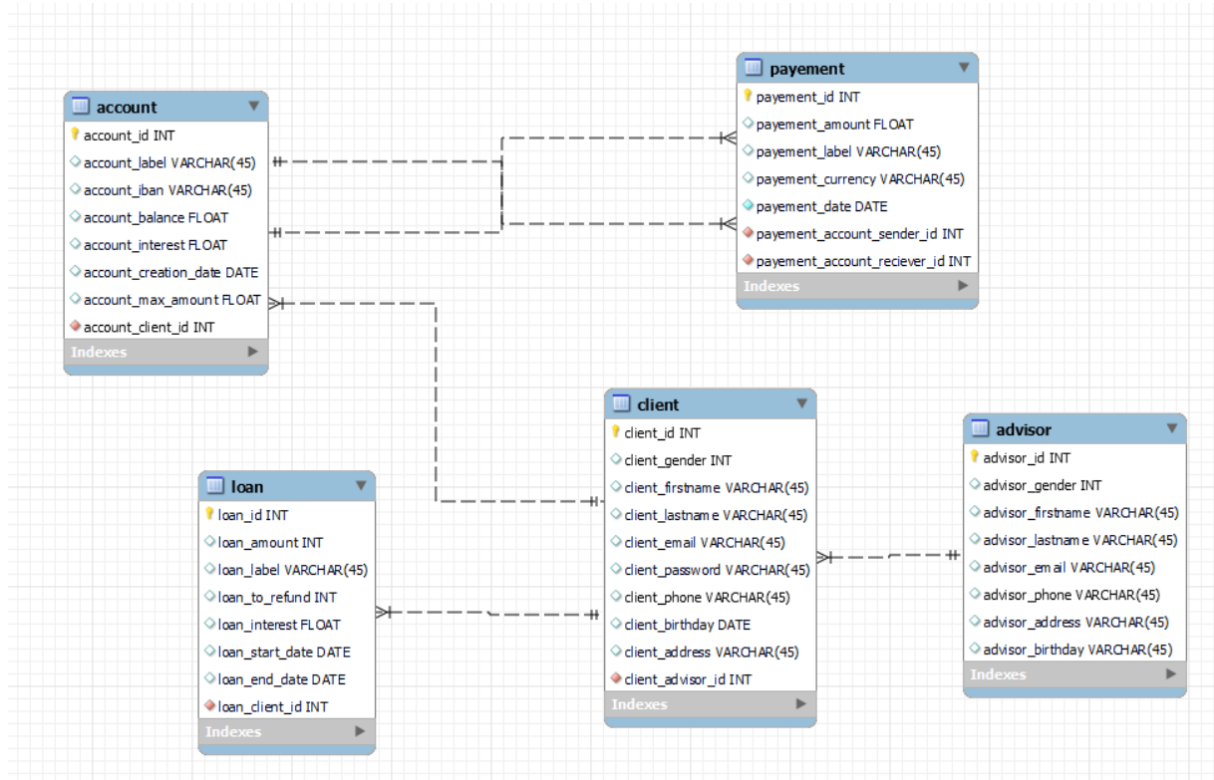
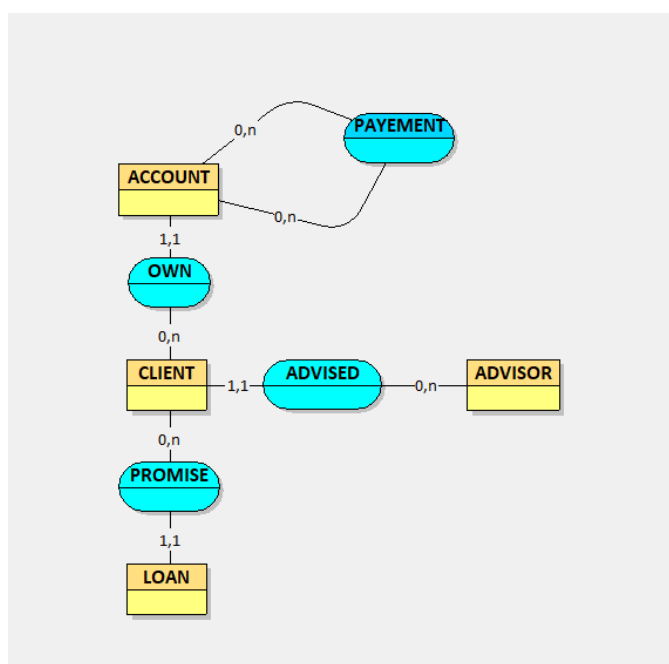
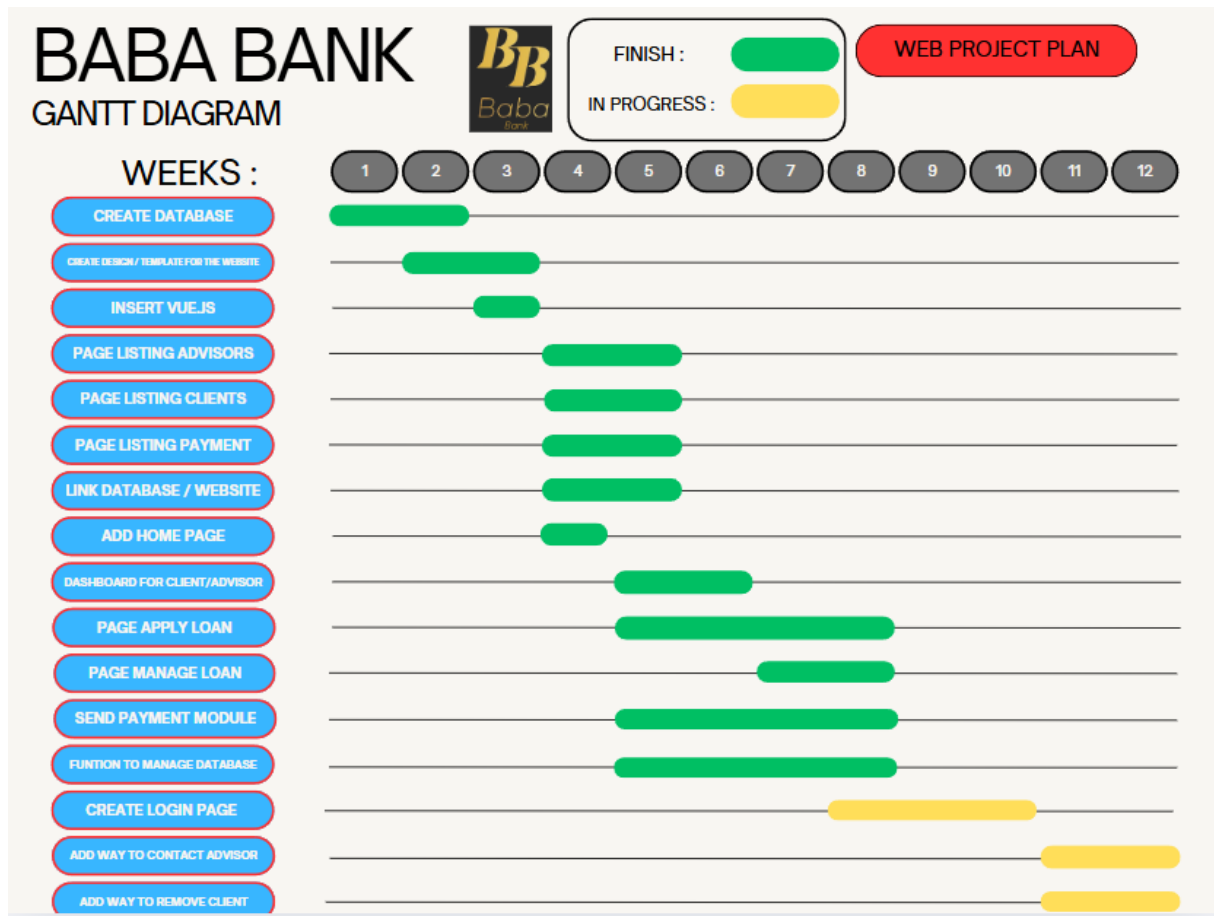


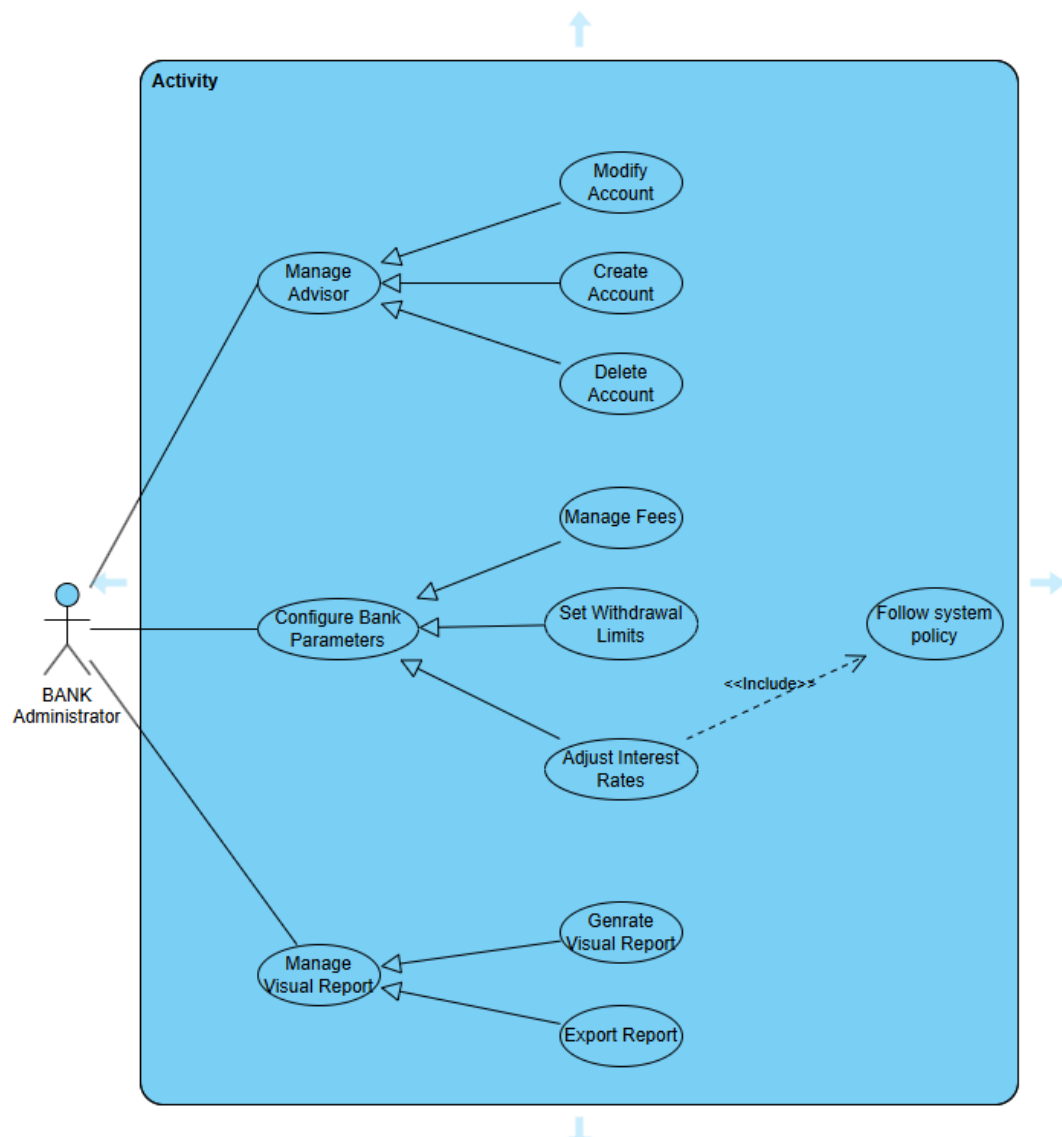
Schéma E/R : An Entity-Relationship Diagram (E/R Diagram) is a visual representation of the entities, their attributes, and relationships within a database, used to design and model its structure. It helps illustrate how data is connected and organized.



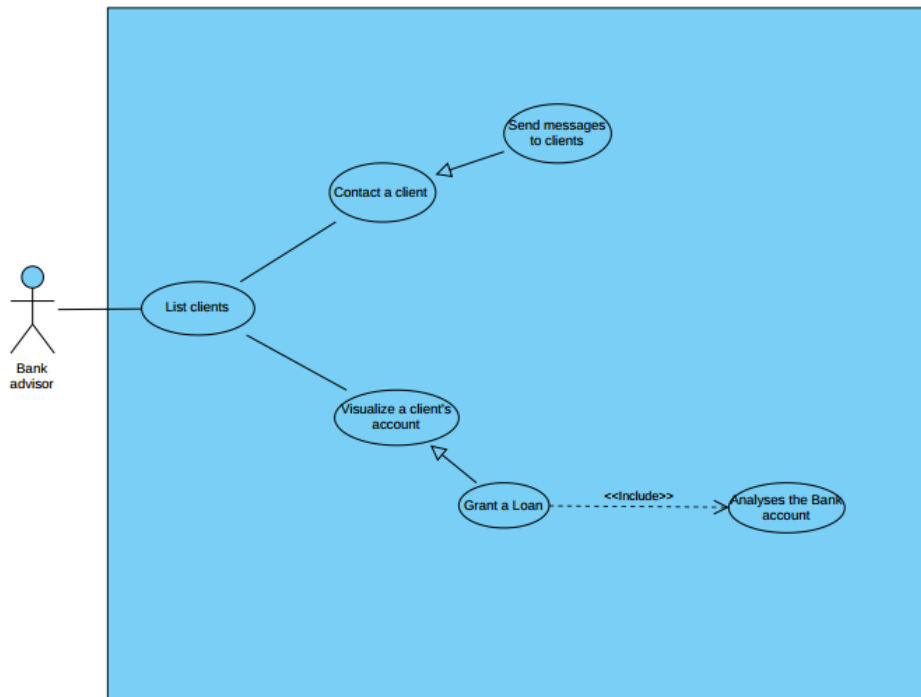
Gantt Diagram : is a visual project management tool that displays tasks, their durations, and dependencies on a timeline, helping to track progress and schedule activities effectively.



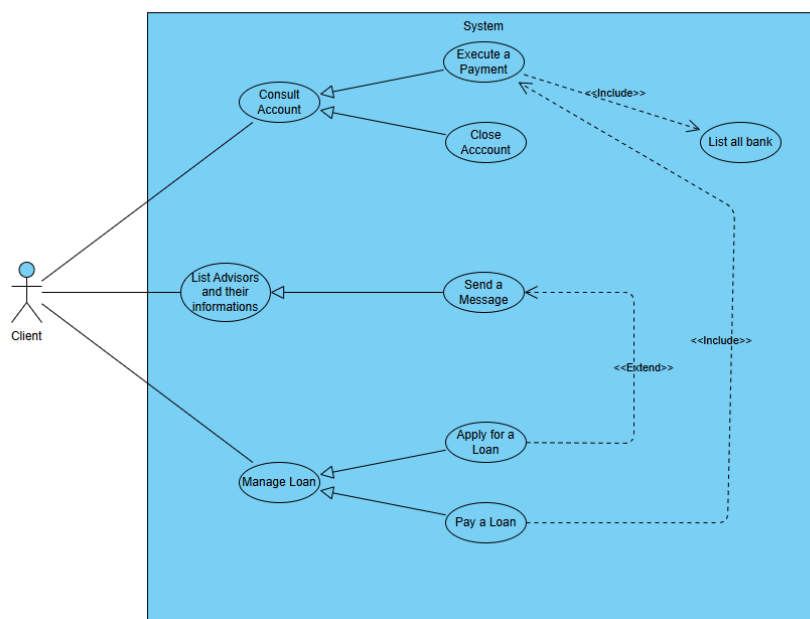
Use Case Diagram of Administrator : visually represents the interactions between the administrator and the system, showcasing the administrator's roles, responsibilities, and use cases, such as managing users, configuring settings, or generating reports.



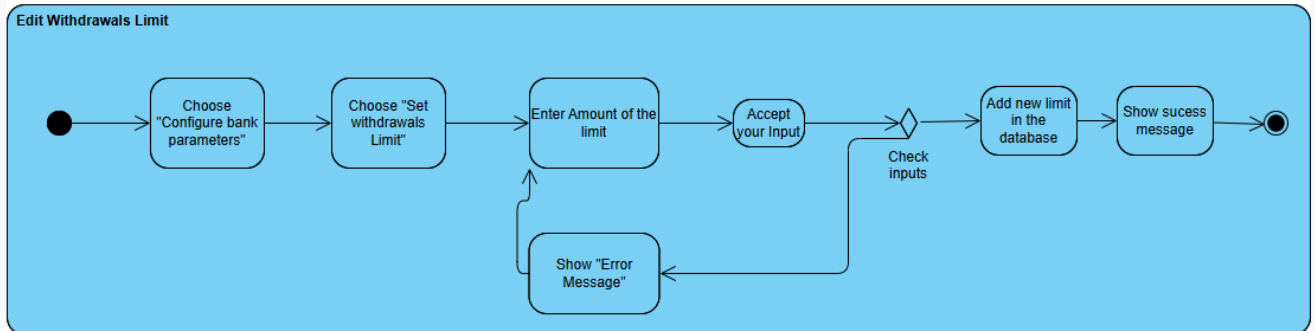
Use Case Diagram of Advisor: illustrates the interactions between the advisor and the system, highlighting tasks such as managing client information, responding to inquiries, and providing recommendations.



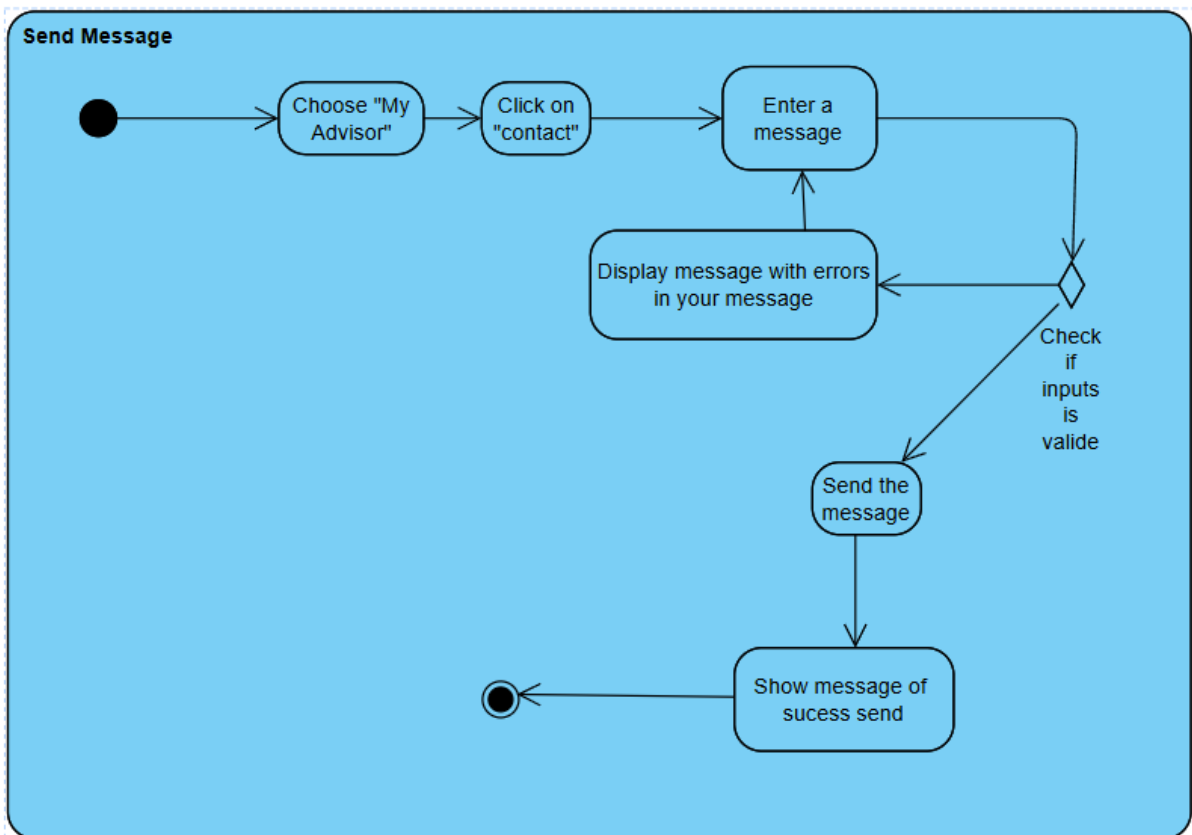
Use Case Diagram of Client : depicts the interactions between the client and the system, focusing on actions like viewing information, submitting requests, and tracking progress or updates.



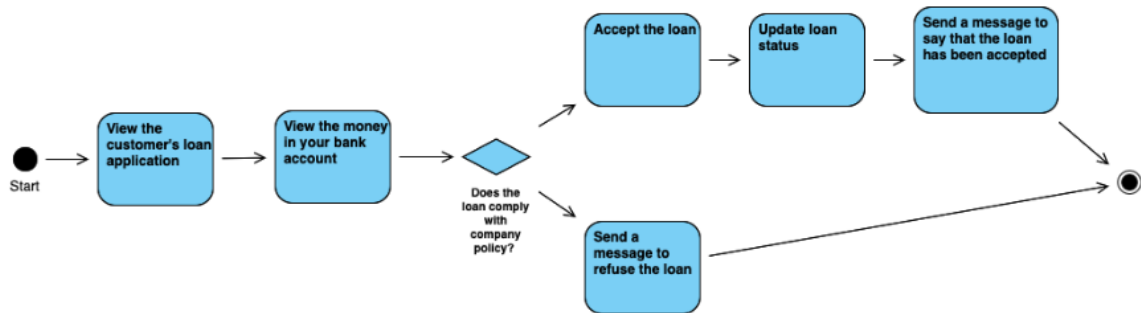
Activity Diagram of Administrator action : Edit Withdrawals Limit : visually outlines the steps involved in modifying a user's withdrawal limit, including login verification, accessing account settings, updating the limit, and saving the changes.



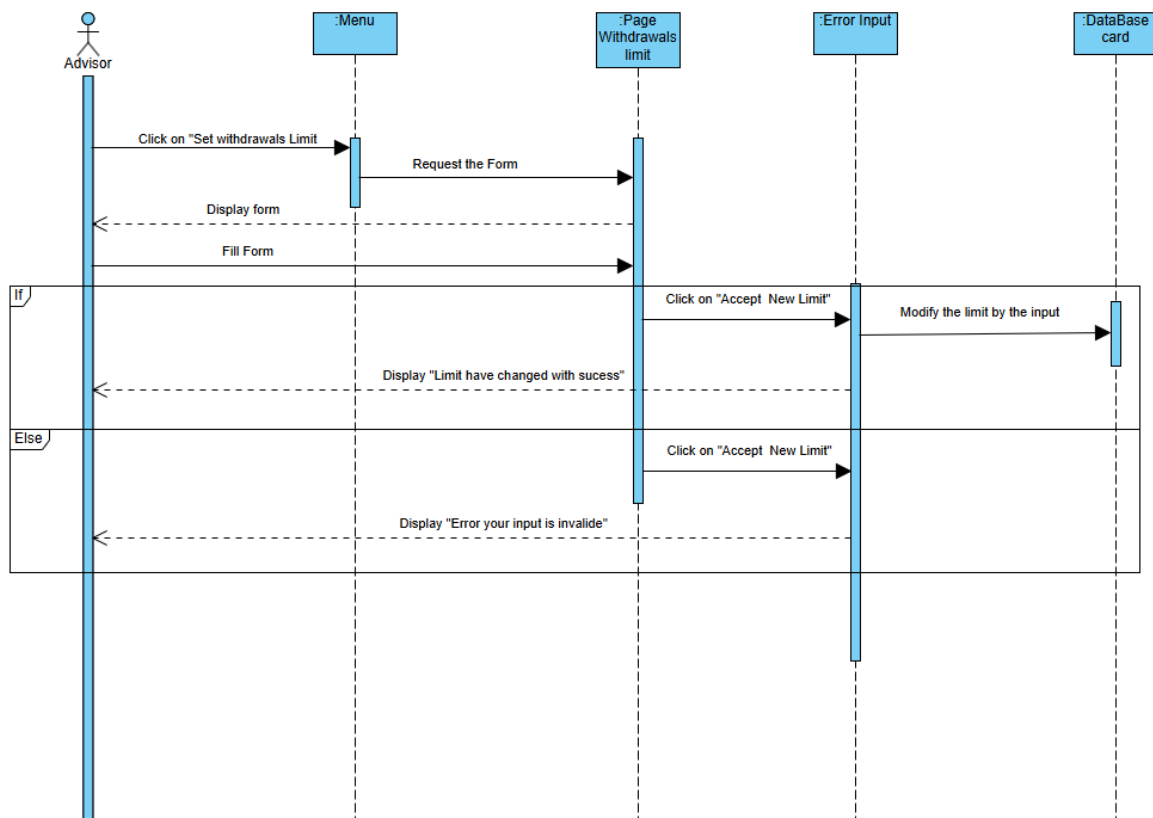
Activity Diagram of Client : Send Message to Advisor : illustrates the process of composing and sending a message, including steps like accessing the messaging interface, writing the message, and submitting it to the advisor.



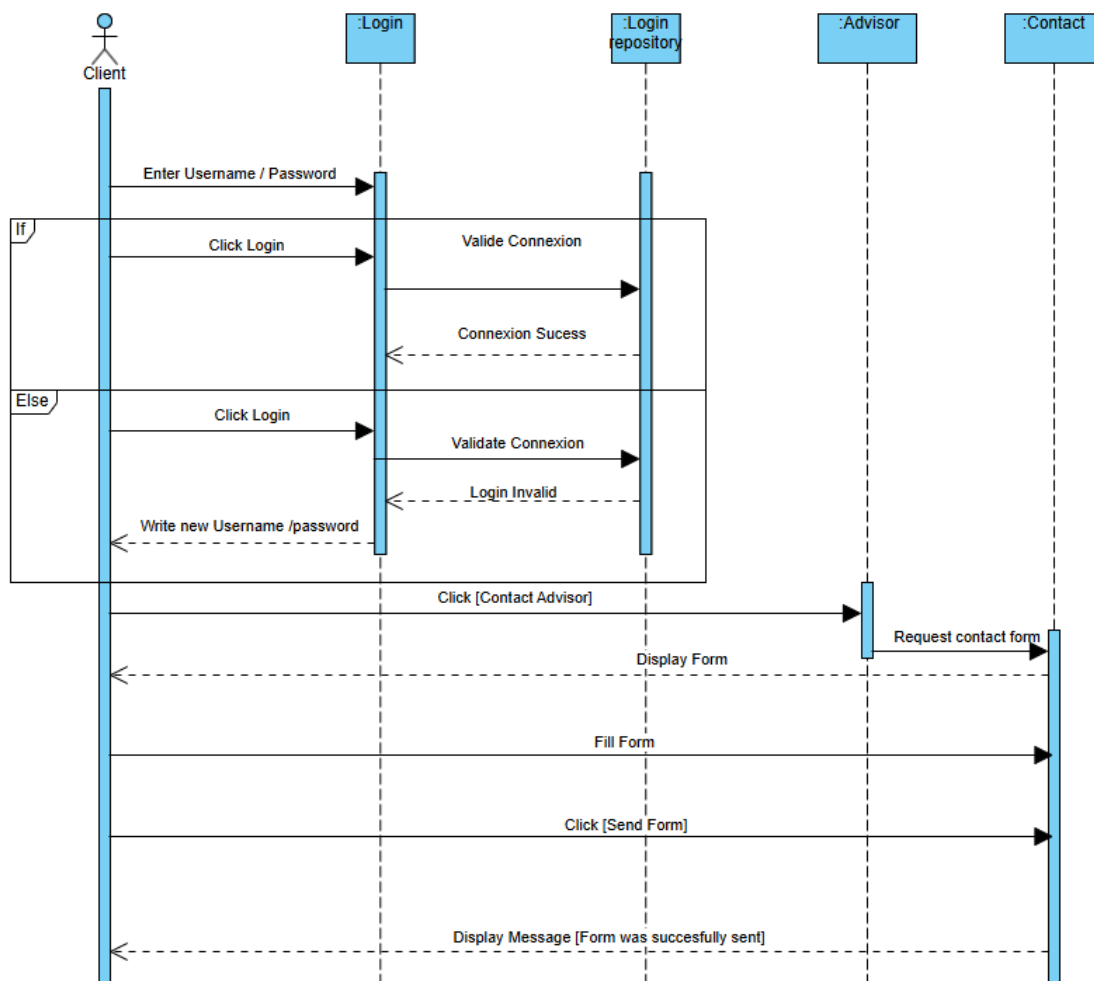
Activity Diagram of Advisor : Grant a Loan : outlines the process of reviewing a loan application, verifying client eligibility, approving the loan, and finalizing the grant process.



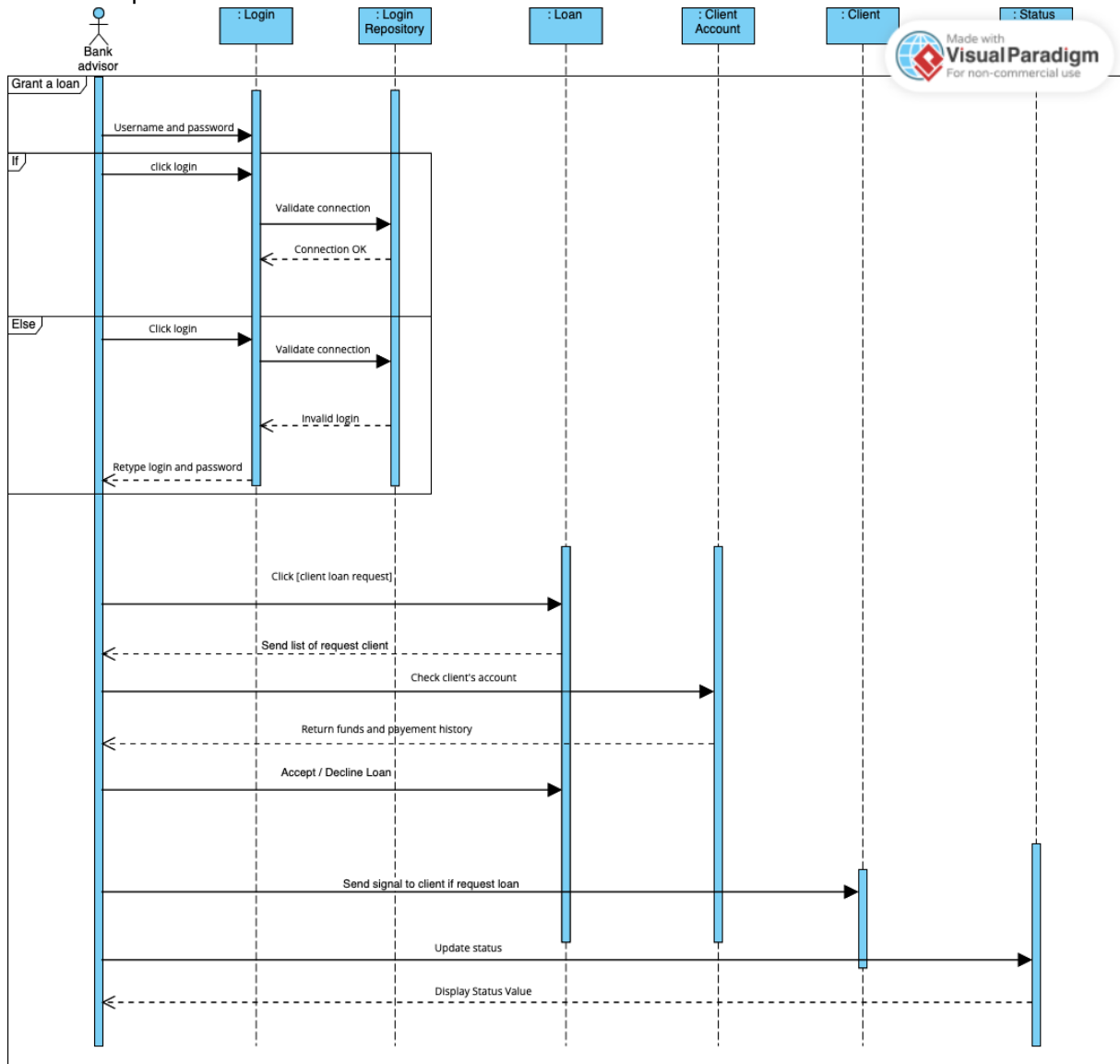
Sequence Diagram Advisor : represents the interactions between the advisor and the system or other entities over time, showing the sequence of messages and actions involved in tasks like managing client requests or providing advice.



Sequence Diagram Client : illustrates the step-by-step interactions between the client and the system, detailing the sequence of messages exchanged for actions like submitting requests or retrieving information.




Sequence Diagram Advisor : depicts the sequential interactions between the advisor, the system, and other entities, highlighting processes like responding to client queries or managing financial operations.



WireFrame : is a simple visual blueprint of a webpage or application interface, focusing on layout, structure, and functionality without including detailed design elements or visuals.



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Apply for a loan

Loan Information

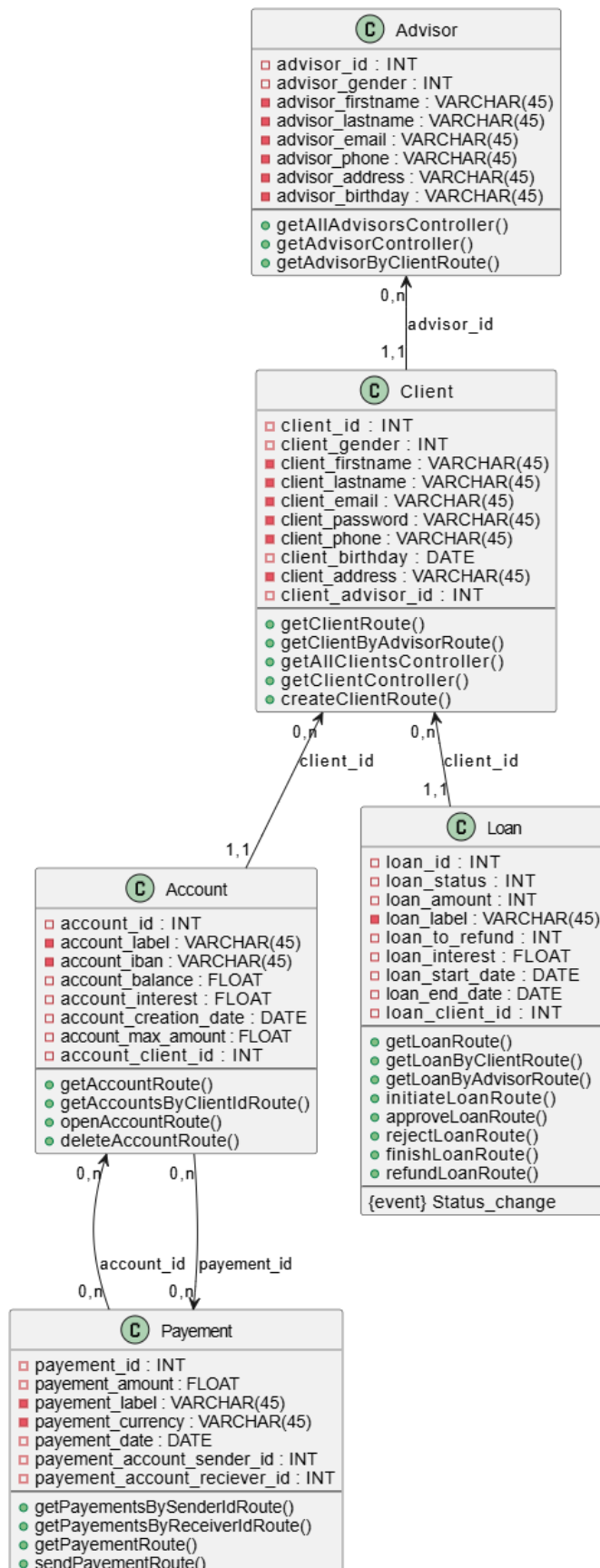
Select the loan type that best matches your financial needs:

Student Loan
Designed to help students cover tuition, books, and living expenses. Repayment is usually deferred until after graduation, making it easier to focus on your studies.

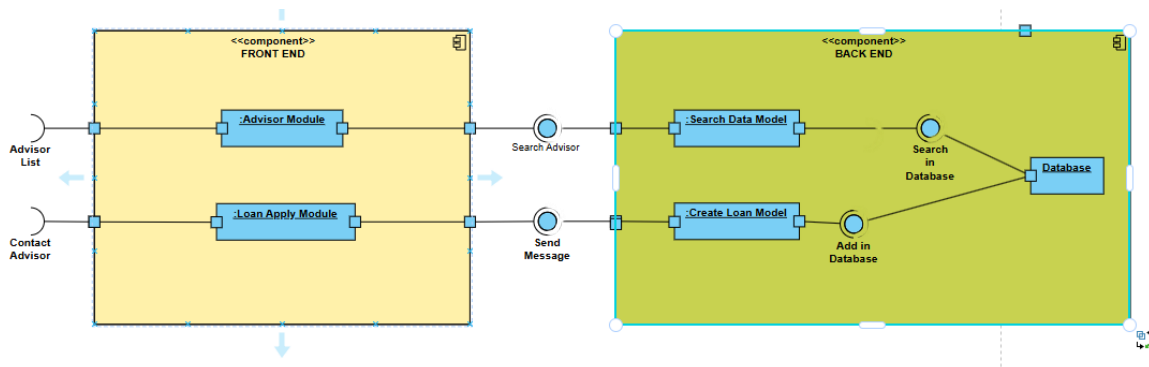
Consumption Loan
Ideal for covering personal expenses, like household purchases or unexpected costs. This

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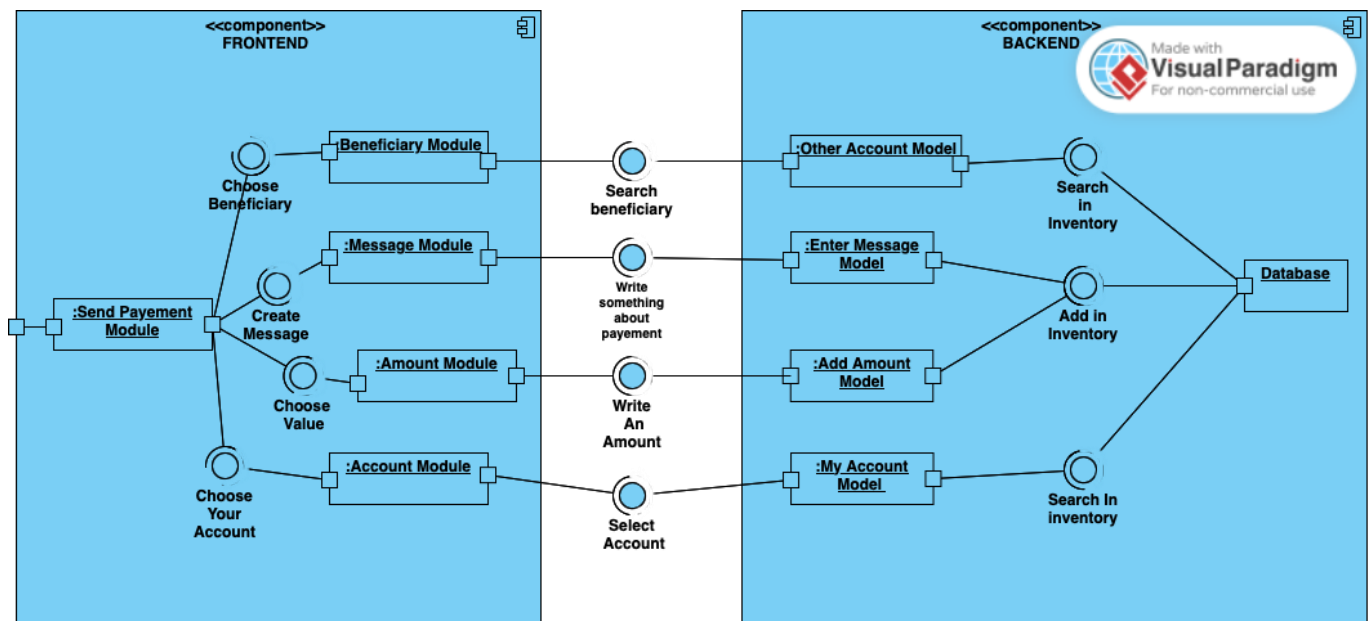
Class Diagram : is a UML diagram that represents the structure of a system by showing its classes, attributes, methods, and the relationships between them.



Component Diagram Send Message : illustrates the architecture of the system components involved in the message-sending process, such as the user interface, backend service, and messaging service, along with their interactions.



Component Diagram Send Payment : shows the system's components involved in processing a payment, including the user interface, payment gateway, backend services, and database, along with their interactions.



Component Diagram Manage Client :

This diagram represents a system architecture divided into two main parts: Backend (left) and Advisor Dashboard (right). It illustrates how a bank advisor can manage his customers through different components and interactions.

