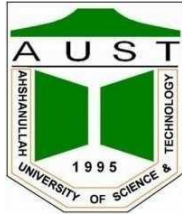


Ahsanullah University of Science & Technology

Department of Computer Science & Engineering



Seba-NGO Management System

Information System Design
&
Software Engineering Lab
CSE-3224

Data Flow Diagram & Use Case Modelling

Quest

Submitted By

# Ashfaq Ali Shafin	14.01.04.111
# Irtiza Abir	14.01.04.122
# Abid Hasan Prottoy	14.01.04.125

Introduction:

This report has covered two essential parts of this project. These are: **Data Flow Diagram & Use Case Modelling**. Data Flow Diagram is a graphical representation of System's data and how the process transform data. This is the most common way of documenting the process of current and required System. Use Case Modelling is a set of visual symbols to represent software requirements.

Data Flow Diagram (DFD):

Activity List:

Micro Credit	Education	Administration	Payroll
Customer Request to be assigned in Micro-Credit Project	Customer Request to be assigned in Education Project	Content Modification (add/delete/modify)	Pay for Employee
		Donation Procedure	Employee Salary Calculation
Feedback of the Request	Feedback of the Request	Keeping Track of Donation	
Loan Assignment		Task assignment for Employee	Work rate of Employee
Loan Receiving	Admission in Program	Keeping Track of Employees' Work	

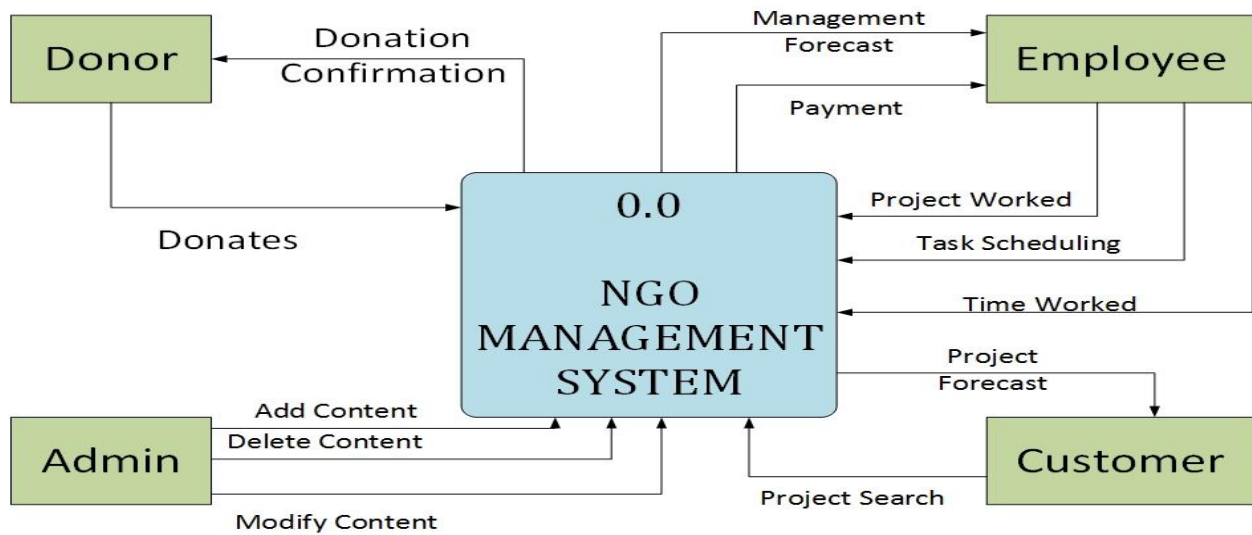
Main Process: Ngo Management System

Sub Process: Micro-Credit, Education, Administration, Payroll

Entity: Customer, Donor, Admin, Employee

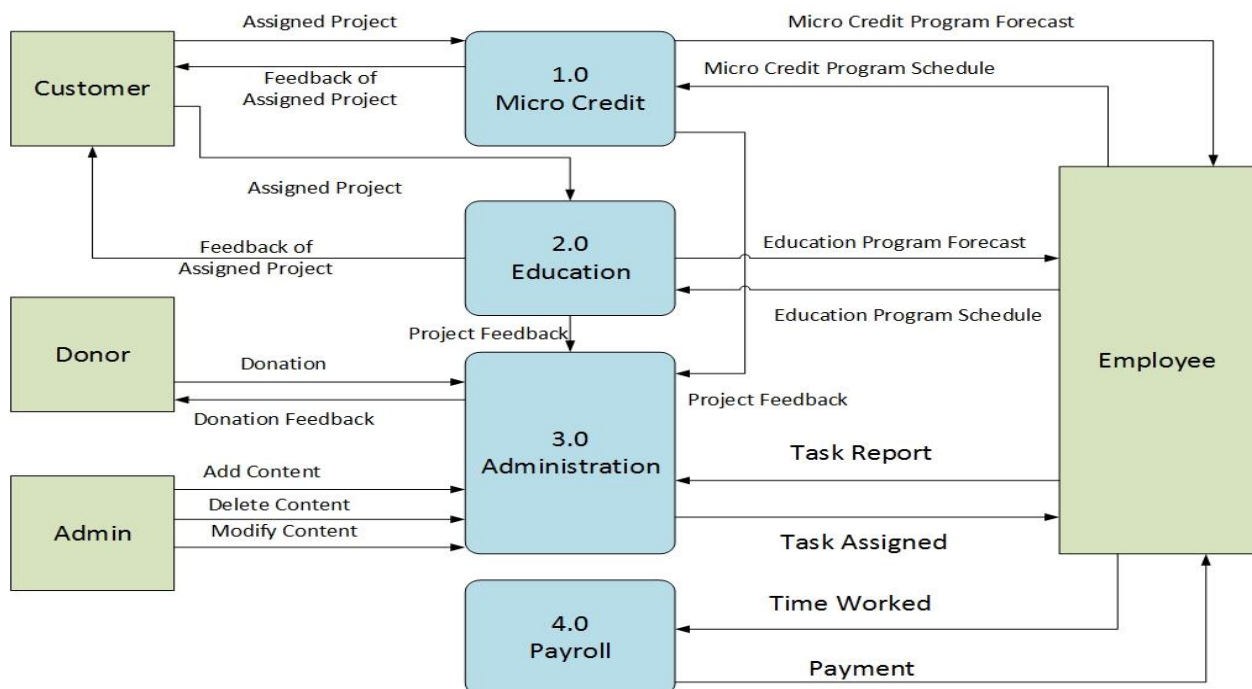
Database: Customer_Info, Donor_Info, Admin_Info, Employee_Info, Content, Donation_Info, Loan_Info, Education_Info, Time_Working, Employee_Salary

DFD - Context Level:

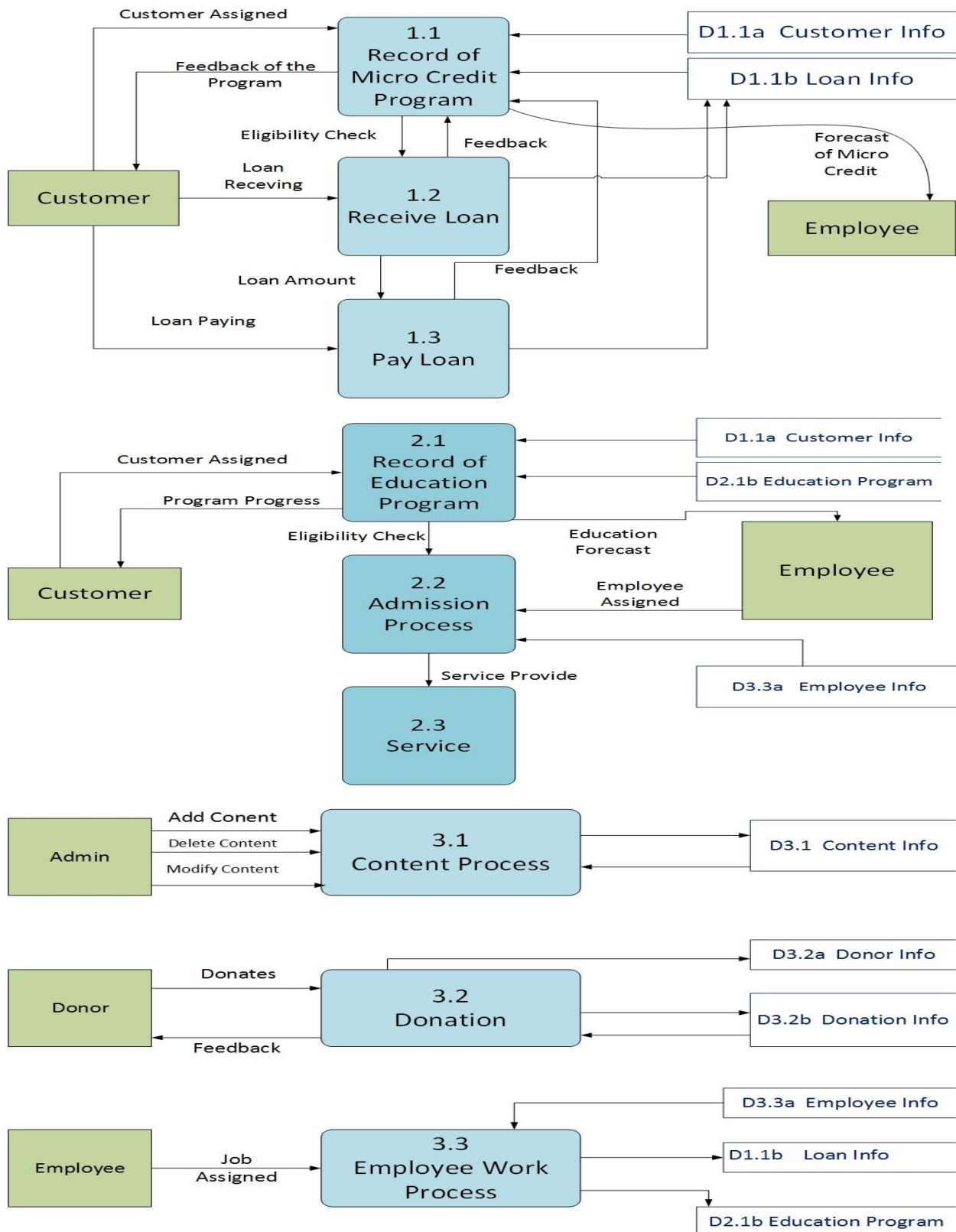


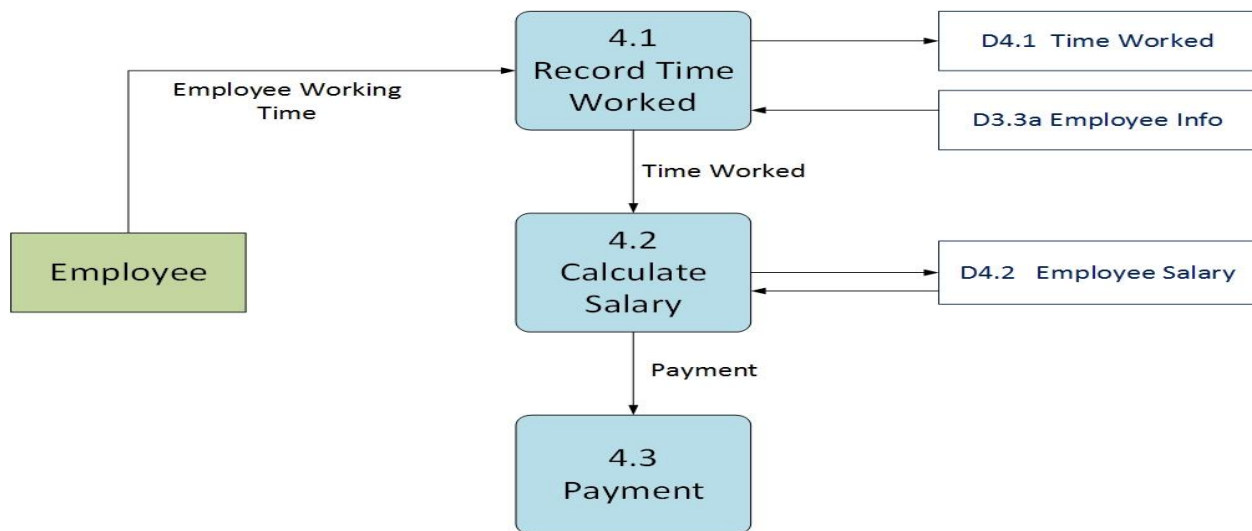
Context Level

DFD - Level 0:



DFD - Level 01:





Process Decomposition:

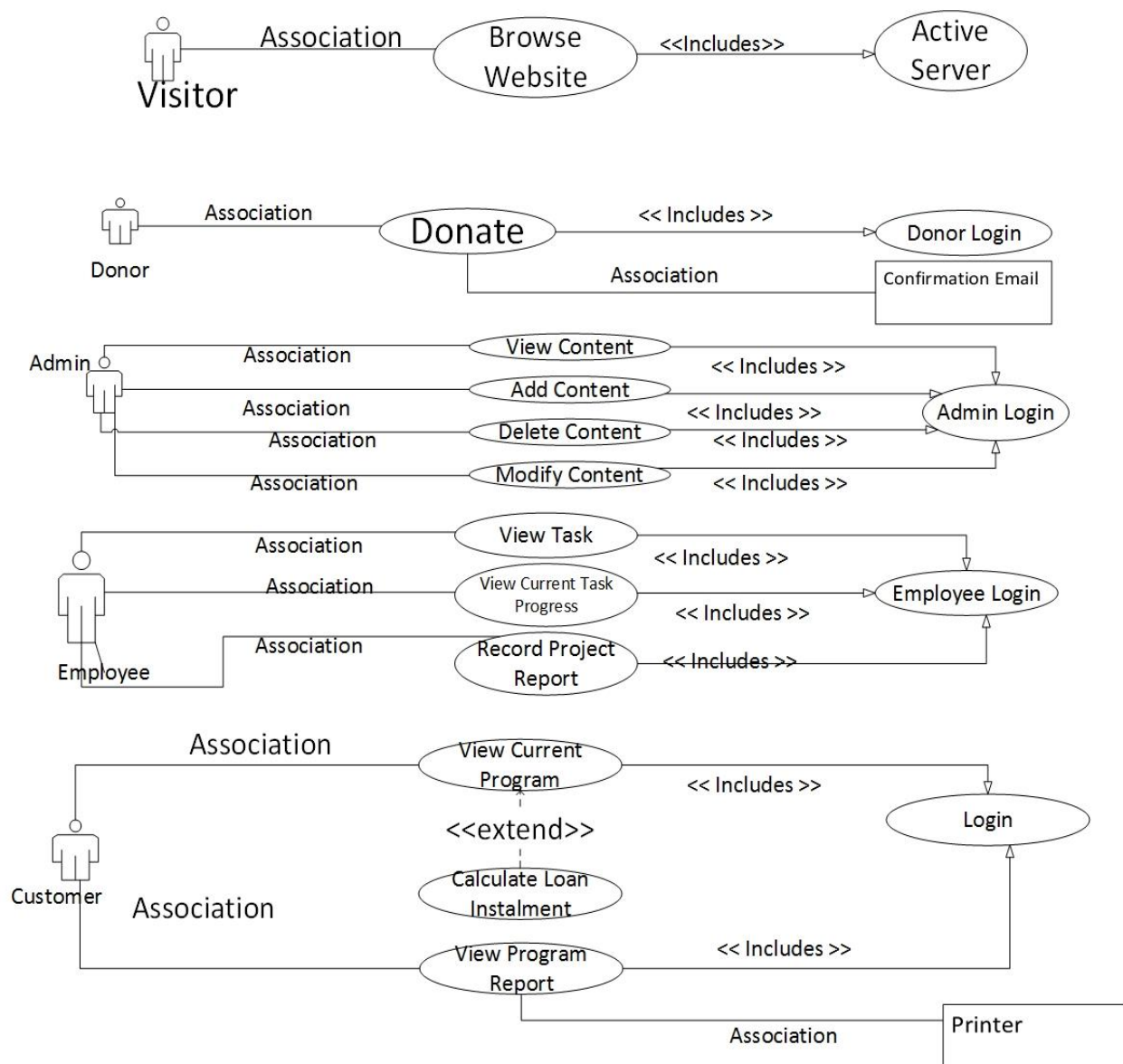
Context Level	Level -0	Level-1
NGO Management System	1.0 Micro-Credit	1.1 Record Micro-Credit Program
		1.2 Receive Loan
		1.3 Pay Loan
	2.0 Education	2.1 Record Education Program
		2.2 Admission
		2.3 Service
	3.0 Administration	3.1 Content Process
		3.2 Donation
		3.3 Employee Work Process
	4.0 Payroll	4.1 Pay to Employee

Use Case Modelling:

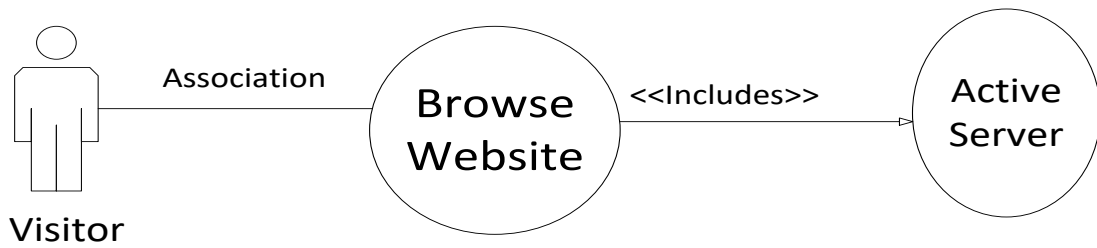
Actors:

1. Visitor
2. Donor
3. Admin
4. Employee
5. Customer

Use Case Diagram:

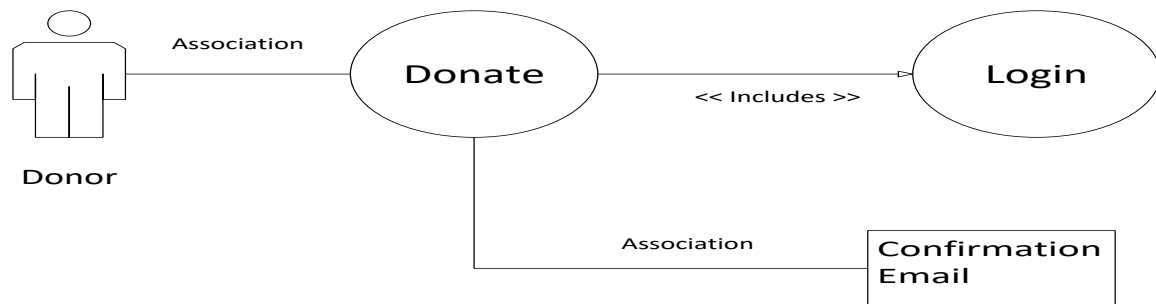


Use Case Modelling: Visitor

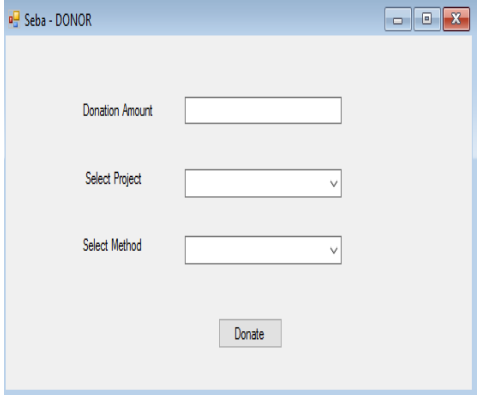


Use Case: Browse Website	GUI
<ul style="list-style-type: none"> • Actor: Visitor • Pre-Condition: Active Server • Primary Path: Type Web Address, Click "Enter" Button • Alternate Path: Wrong Web Address 	<p>The screenshot shows a web browser window titled "Seba". Inside, there is a text input field labeled "Type URL" and a button labeled "Enter" below it.</p>

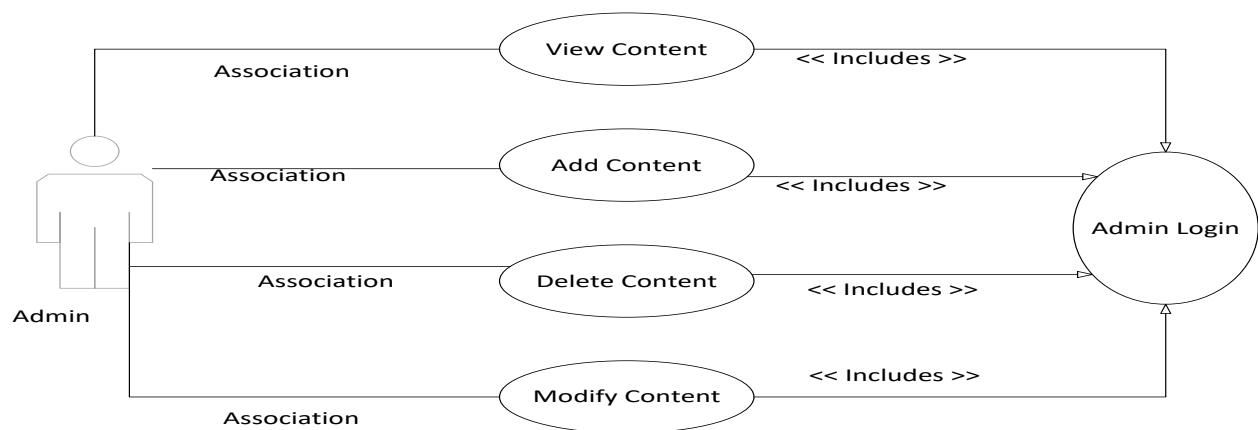
Use Case Modelling: Donor

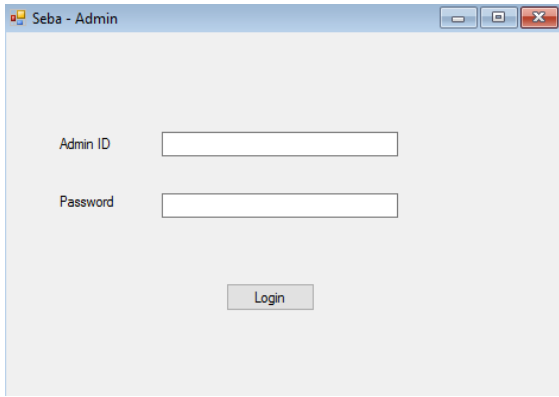


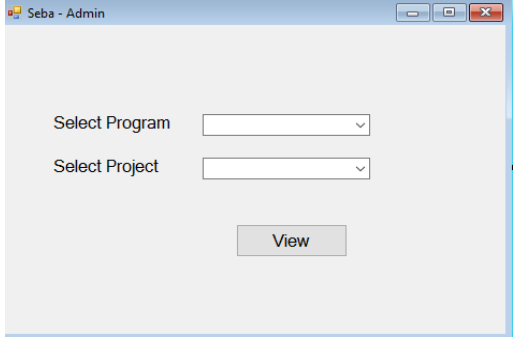
Use Case: Donor Login	GUI
<ul style="list-style-type: none"> • Actor: System • Pre-Condition: None • Primary Path: Insert Donor ID, Insert Password, Click Login • Alternate Path: Wrong Donor ID, Wrong Password 	<p>The screenshot shows a web browser window titled "Seba - Donor". Inside, there are two text input fields, one labeled "Donor ID" and one labeled "Password", with a button labeled "Login" below them.</p>

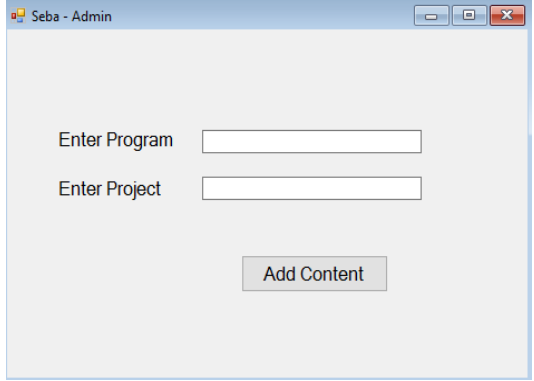
Use Case: Donor Donate	GUI
<ul style="list-style-type: none"> Actor: Donor Pre-Condition: Donor Login Primary Path: Writing the amount to be donated, Select Project, Select Method, Click “Donate” Button Alternate Path: Wrong Amount, Wrong Project 	

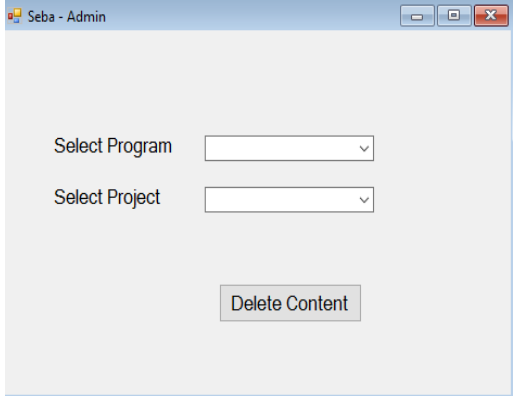
Use Case Modelling: Admin

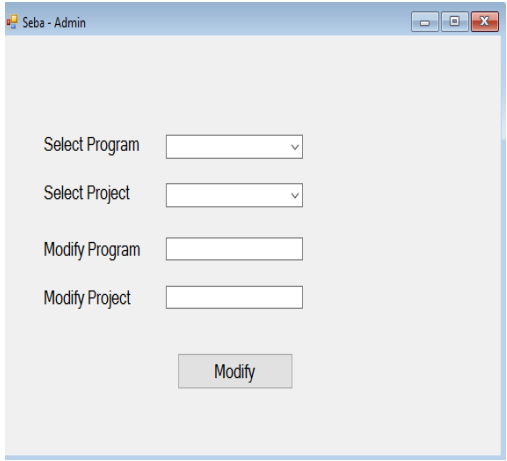


Use Case: Admin Login	GUI
<ul style="list-style-type: none"> Actor : System Pre-condition : None Primary Path : <ul style="list-style-type: none"> i) enter admin id ii) enter password iii) click “login” Alternate Path: <ul style="list-style-type: none"> i) wrong id ii) wrong password 	

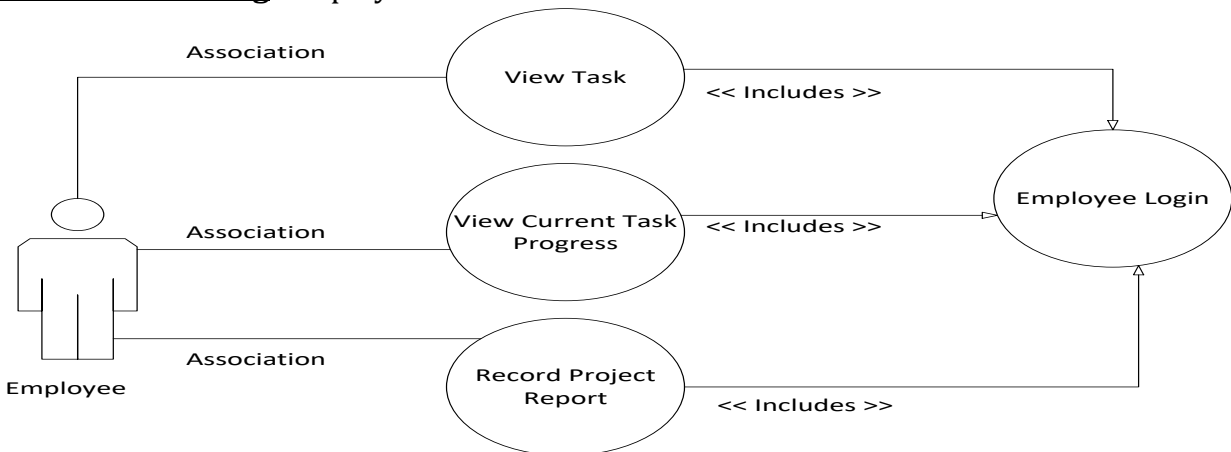
Use Case: View Content	GUI
<ul style="list-style-type: none"> Actor : Admin Pre-condition : Login Primary Path : <ul style="list-style-type: none"> i) Select Program ii) Select Project iii) Click “view” Alternate Path: <ul style="list-style-type: none"> i) Wrong Program ii) Project not Available 	

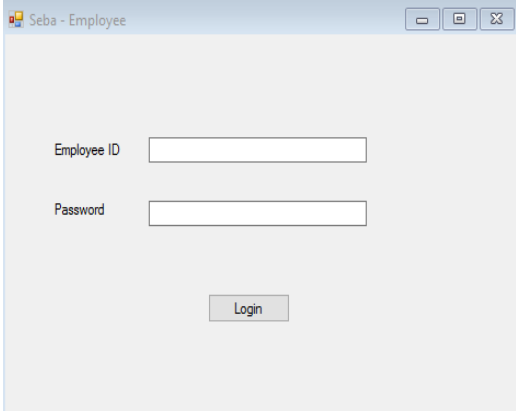
Use Case: Add Content	GUI
<ul style="list-style-type: none"> Use Case: Add Content Actor : Admin Pre-condition : Login Primary Path : <ul style="list-style-type: none"> i) Enter Program ii) Enter Project iii) Click “Add Content” Alternate Path: <ul style="list-style-type: none"> i) Program & Project already saved 	

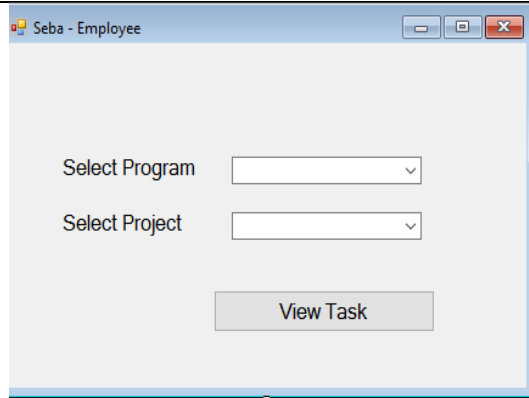
Use Case: Delete Content	GUI
<ul style="list-style-type: none"> Use case : Delete Content Actor : Admin Pre-condition : Login Primary Path : <ul style="list-style-type: none"> i) Select Program ii) Select Project iii) Click “Delete Content” Alternate Path: <ul style="list-style-type: none"> i) Wrong Program ii) Project Not Found 	

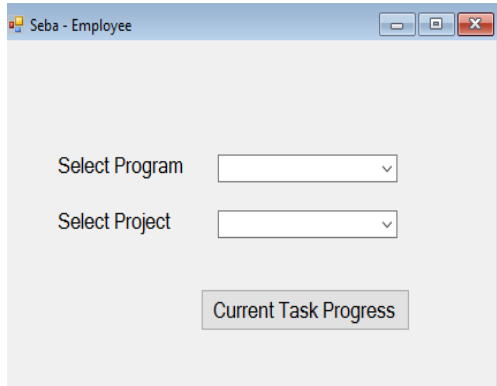
Use Case: Modify Content	GUI
<ul style="list-style-type: none"> Use case : Modify Content Actor : Admin Pre-condition : Login Primary Path : <ul style="list-style-type: none"> i) Select Program ii) Select Project iii) Modify Program & Modify Project iv) Click “Modify Content” Alternate Path: <ul style="list-style-type: none"> i) Wrong Program ii) Project Not Found 	

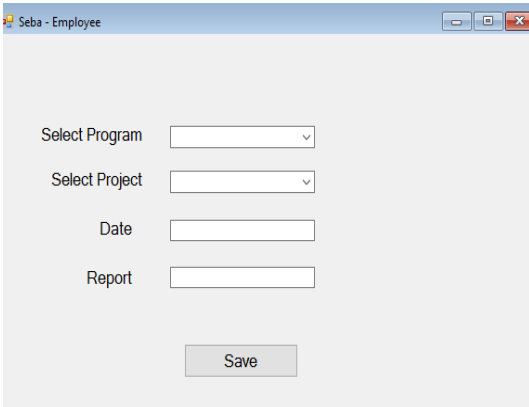
Use Case Modelling: Employee



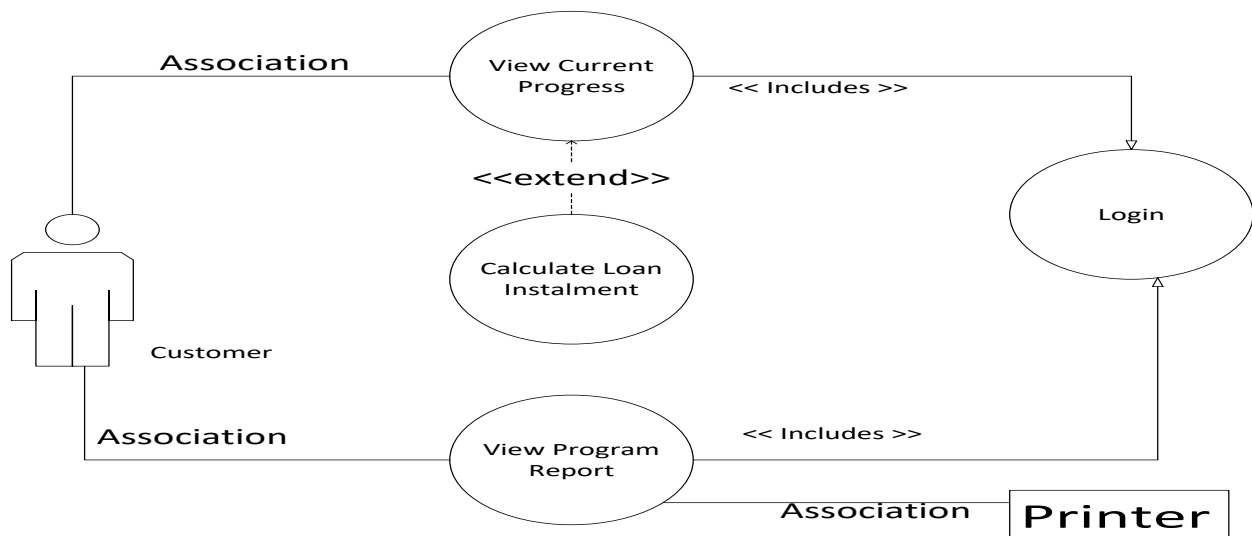
Use Case: Employee Login	GUI
<ul style="list-style-type: none"> Actor : System Pre-condition : None Primary Path : <ul style="list-style-type: none"> i) Insert ID ii) Insert Password iii) Click “Login” Alternate Path: <ul style="list-style-type: none"> i) Wrong ID ii) Wrong Password 	

Use Case: Employee View Task	GUI
<ul style="list-style-type: none"> Actor : Employee Pre-Condition : Login Primary Path : <ul style="list-style-type: none"> i) Select Project ii) Select Program iii) Select "View Task" Button Alternate Path: <ul style="list-style-type: none"> i) Wrong Program/Project 	

Use case : Employee View Current Task Progress	GUI
<ul style="list-style-type: none"> Actor : Employee Pre-Condition : Login Primary Path : <ul style="list-style-type: none"> i) Select Program ii) Select Project iii) Select "Current Task Progress" Alternate Path: <ul style="list-style-type: none"> i) Wrong Program/Project 	

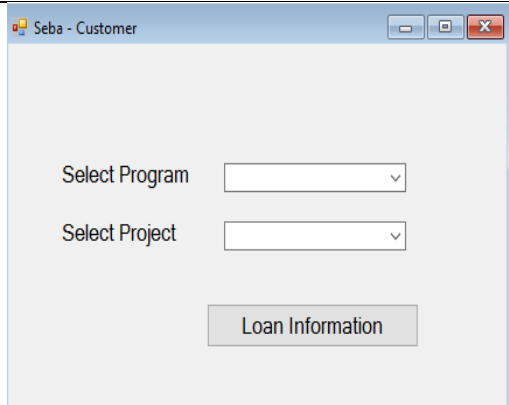
Use case : Employee Record Project Report	GUI
<ul style="list-style-type: none"> Actor : Employee Pre-Condition : Login Primary Path : <ul style="list-style-type: none"> i) Select Program ii) Select Project iii) Type Date iv) Type Project Report v) Select "Save" Button Alternate Path: <ul style="list-style-type: none"> i) Wrong Program/Project 	

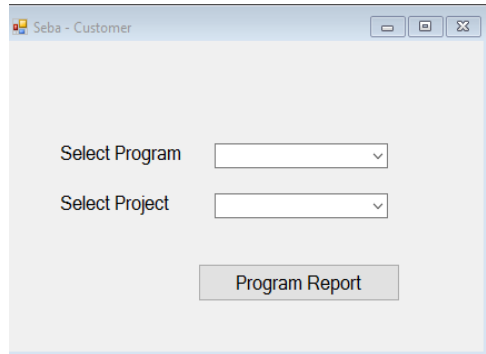
Use Case Modelling: Customer



Use case : Customer Login	GUI
<ul style="list-style-type: none"> Actor : System Pre-Condition : None Primary Path : <ol style="list-style-type: none"> Insert ID Insert Password Click "Login Button" Alternate Path: <ol style="list-style-type: none"> Wrong ID Wrong Password 	<p>The screenshot shows a window titled 'Seba - Customer' with two input fields labeled 'Customer ID' and 'Password', and a 'Login' button below them.</p>

Use Case : View Current Progress	GUI
<ul style="list-style-type: none"> Actor : Customer Pre-Condition : Login Primary Path : <ol style="list-style-type: none"> Select Program Select Project Select "Current Progress" Alternate Path: <ol style="list-style-type: none"> Wrong Program/Project 	<p>The screenshot shows a window titled 'Seba - Customer' with two dropdown menus labeled 'Select Program' and 'Select Project', and a 'Current Progress' button below them.</p>

Use case : Calculate Loan Instalment	GUI
<ul style="list-style-type: none"> • Actor : System • Pre-Condition : Login • Primary Path : <ul style="list-style-type: none"> i) Select Program ii) Select Project iii) Select “Loan Information” • Alternate Path: <ul style="list-style-type: none"> i) Wrong Program/Project 	

Use case : Customer View Program Report	GUI
<ul style="list-style-type: none"> • Actor : Customer • Pre-Condition : Login • Primary Path : <ul style="list-style-type: none"> i) Select Program ii) Select Project iii) Select “View Program Report” • Alternate Path: <ul style="list-style-type: none"> i) Wrong Program/Project 	

Conclusion:

This concludes the Data Flow Diagram & Use Case Modelling. This report deals with how data are being processed and when they are processed. This also helps to create clear view of usage of this software for different actors for different purposes.