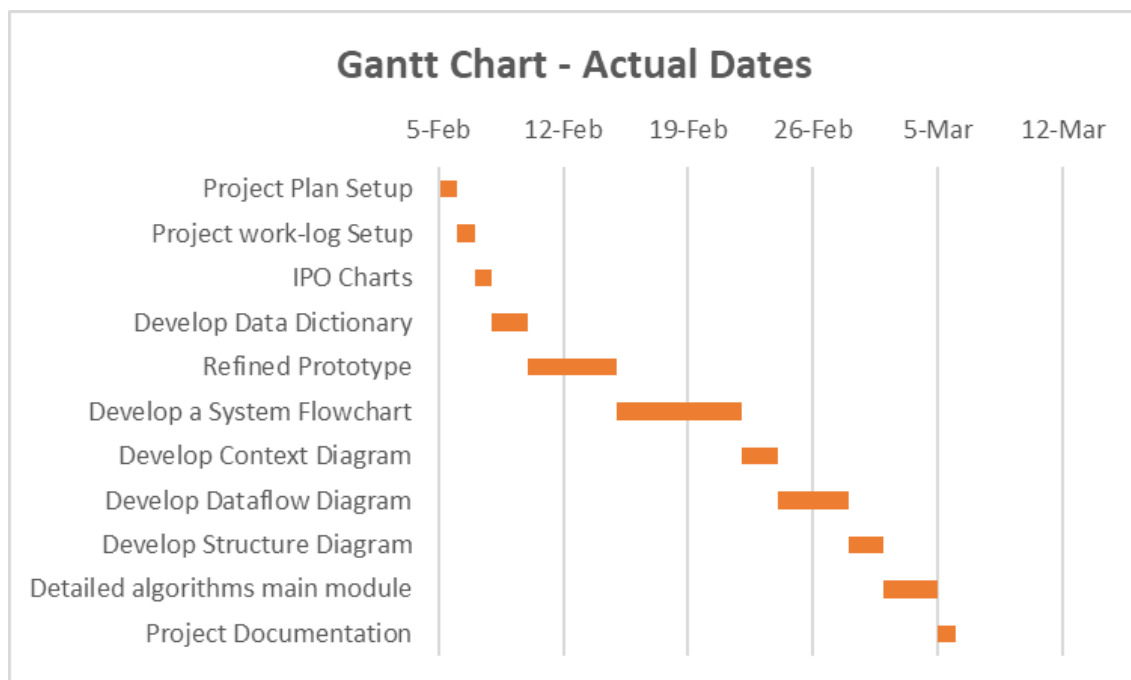
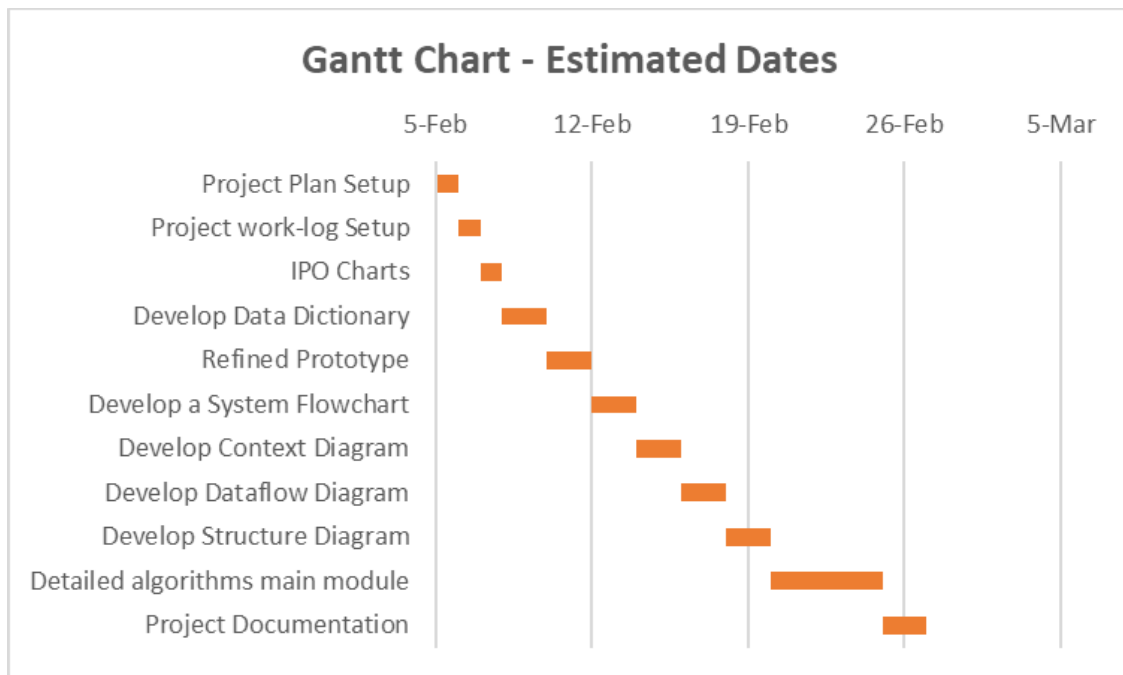


ABC Corporation Management Payroll System – Planning and Designing

Gantt Chart



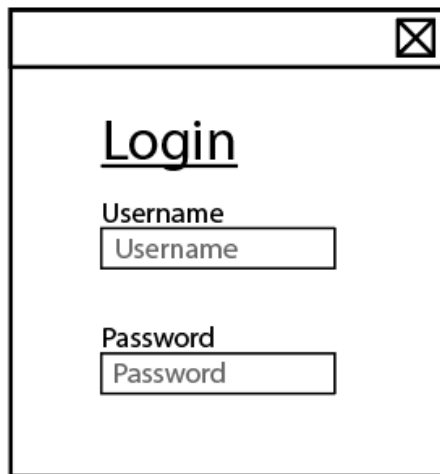
IPO Table

Input	Process	Output
Username	Assess if username and password match.	If username and password match, access to application is granted.
Password		If username and password does not match, it will display an error.
Employee Details	Create Employee Record	"Employee record created" Employee ID
	Modify Employee Record	"Employee record updated"
Employee ID		
Employee Details	Delete Employee Record	"Employee Record Deleted"
Employee ID	Search Record	Employee Record Details Weekly Salary Details
Weekly Salary Details	Calculate Total Weekly Salary Gross Pay Total Taxes Withheld	Weekly Payroll Report
	Generate Report	

Data Dictionary

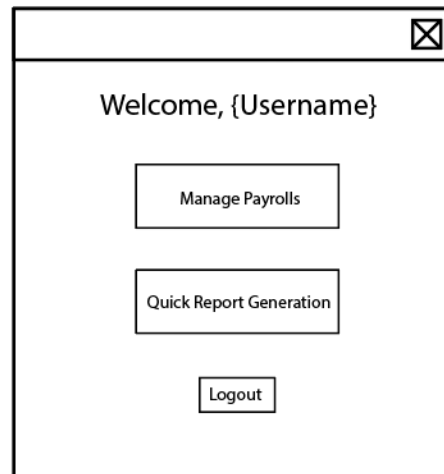
Field Name	Data Type	Field Size	Description	Example
Employee ID	Integer	6	Number Identification for Employee	123456
Surname	Text	20	Surname of Employee	Doe
First Name	Text	20	First Name of Employee	John
Address	Text	50	Address of Employee	123 Main Street Sydney NSW 2000
Phone No.	Text	10	Contact Number of Employee	0412345678
D.O.B	Date/Time	8	Employee Date of Birth	17/08/1965
Gender	Text	100	Employee Gender	Male/Female/Other
BSB No.	Integer	6	Bank State Branch	123-456
Acc No.	Integer	8	Account Number	123-456
Hourly Rate	Double	8	Employee Hourly Pay	\$30.45
Username	Text	25	User Username	Admin
Password	Text	16	User Password	Admin

Prototype



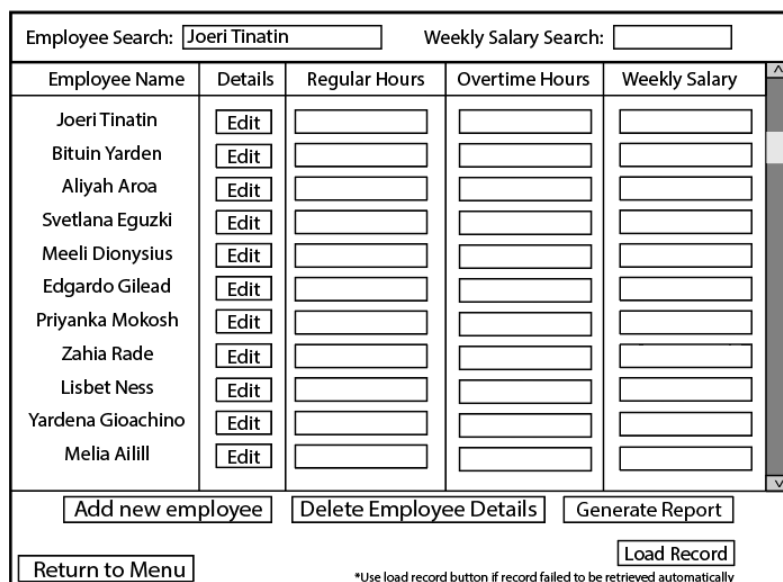
Prototype of the Login screen. It features a window with a close button (X) in the top right corner. The title 'Login' is centered. Below it are two input fields: 'Username' and 'Password', each with a label above the input box.

*Login screen to use Software.



Prototype of the Main Menu of Employee Management Software. It features a window with a close button (X) in the top right corner. The title 'Welcome, {Username}' is centered. Below it are three buttons: 'Manage Payrolls', 'Quick Report Generation', and 'Logout'.

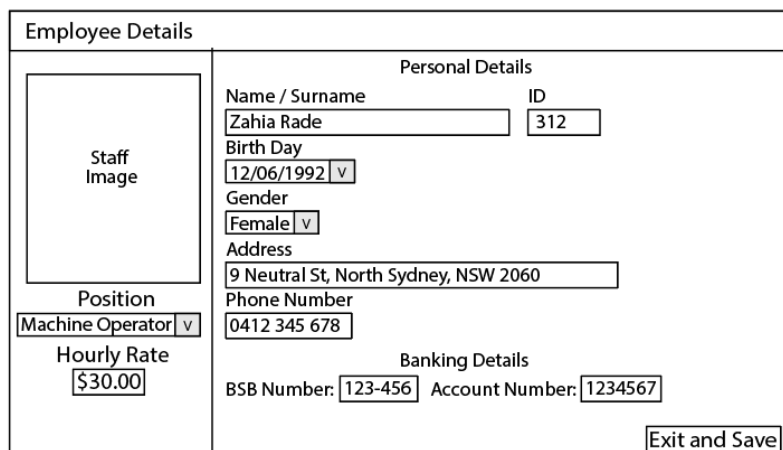
*Main Menu of Employee Management Software.



Prototype of the Employee Management Dashboard of Software. It features a window with a close button (X) in the top right corner. The title 'Employee Management Dashboard of Software' is centered. Below it are two search fields: 'Employee Search: Joeri Tinatin' and 'Weekly Salary Search:'. Below the search fields is a table with columns: 'Employee Name', 'Details', 'Regular Hours', 'Overtime Hours', and 'Weekly Salary'. The table contains 10 rows of employee data. Below the table are four buttons: 'Add new employee', 'Delete Employee Details', 'Generate Report', and 'Load Record'. At the bottom is a 'Return to Menu' button. A small note at the bottom right says: '*Use load record button if record failed to be retrieved automatically'.

Employee Name	Details	Regular Hours	Overtime Hours	Weekly Salary
Joeri Tinatin	Edit			
Bituin Yarden	Edit			
Aliyah Aroa	Edit			
Svetlana Eguzki	Edit			
Meeli Dionysius	Edit			
Edgardo Gilead	Edit			
Priyanka Mokosh	Edit			
Zahia Rade	Edit			
Lisbet Ness	Edit			
Yardena Gioachino	Edit			
Melia Ailill	Edit			

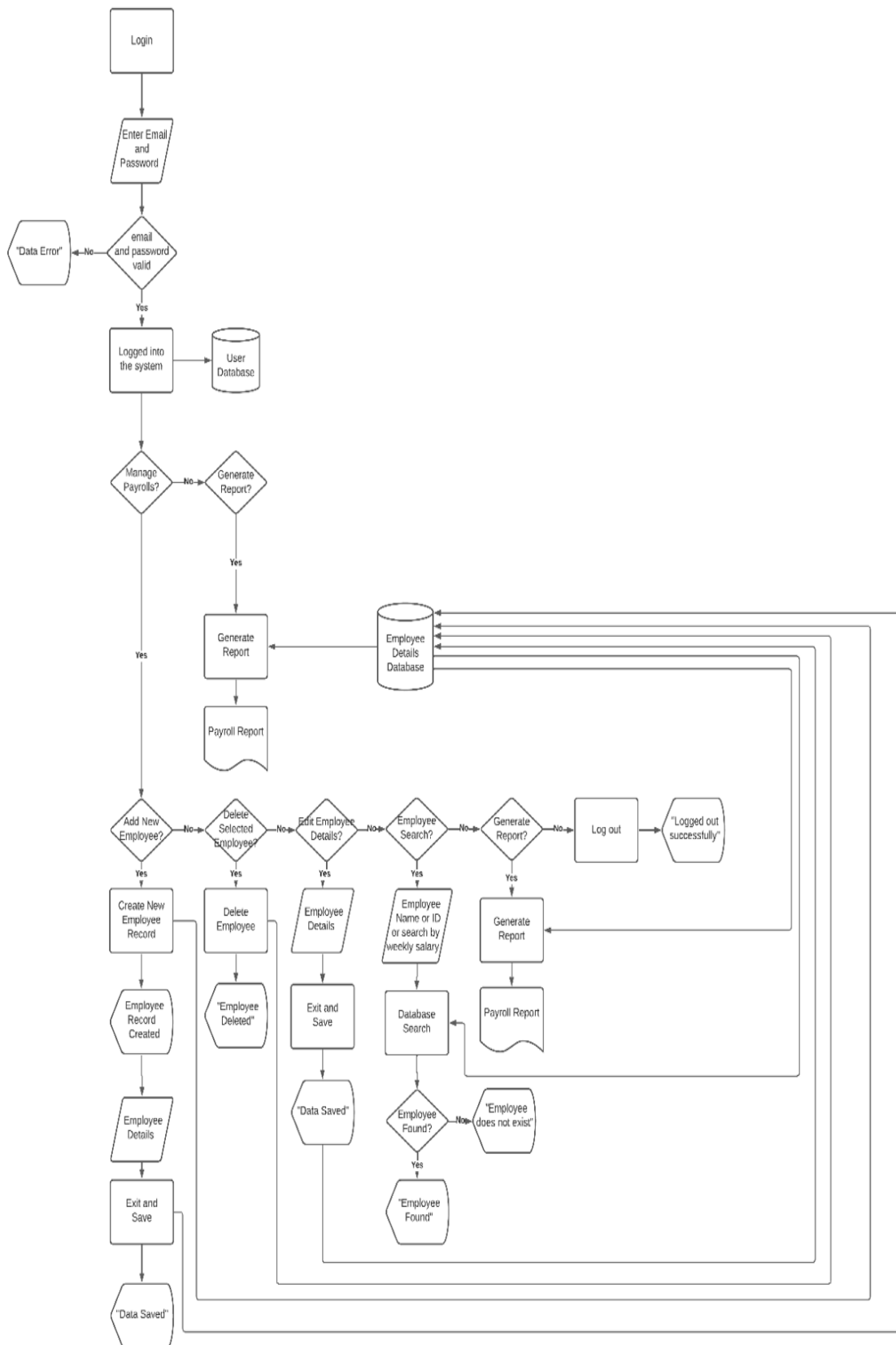
*Employee Management Dashboard of Software



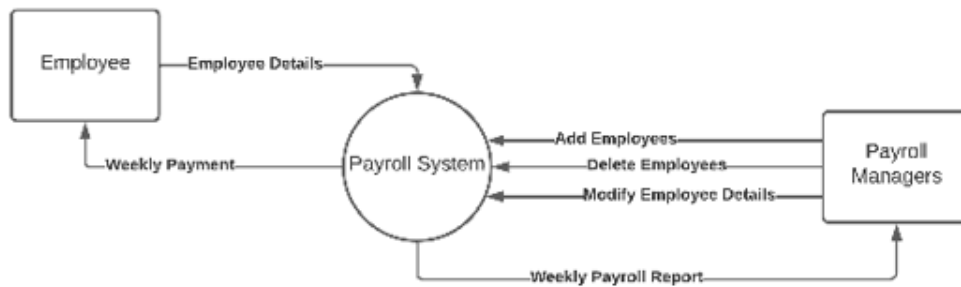
Prototype of the Employee Details Editor and Payroll Editor. It features a window with a close button (X) in the top right corner. The title 'Employee Details' is centered. Below it are two sections: 'Personal Details' and 'Banking Details'. The 'Personal Details' section contains fields for 'Name / Surname' (Zahia Rade), 'ID' (312), 'Birth Day' (12/06/1992), 'Gender' (Female), and 'Address' (9 Neutral St, North Sydney, NSW 2060). The 'Banking Details' section contains fields for 'BSB Number' (123-456) and 'Account Number' (1234567). On the left side, there is a 'Staff Image' placeholder, a 'Position' dropdown (Machine Operator), and a 'Hourly Rate' input (\$30.00). At the bottom right is an 'Exit and Save' button.

*Employee Details Editor and Payroll Editor

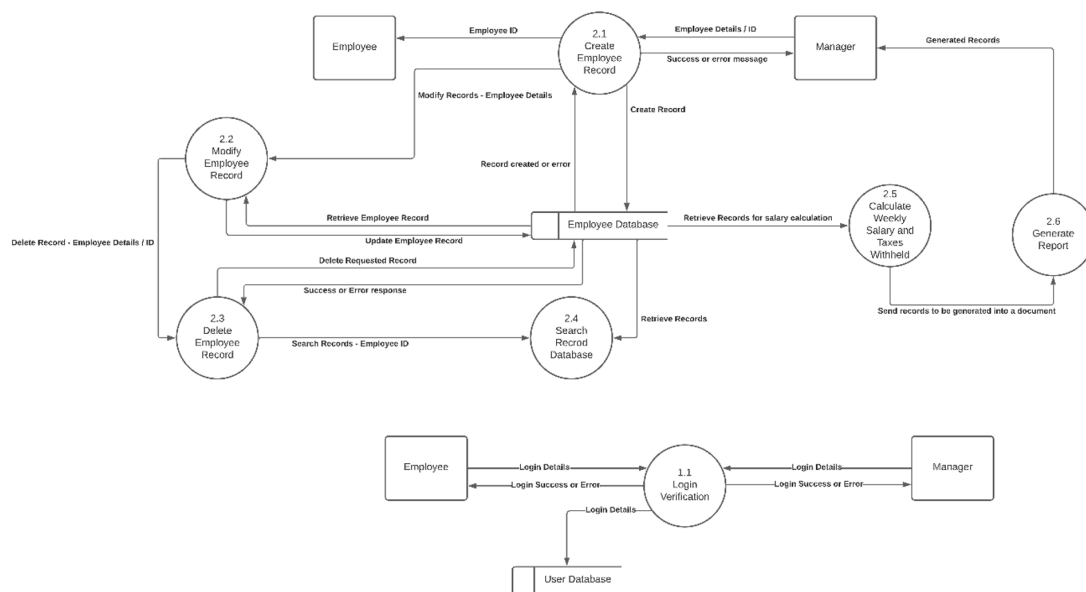
System Flowchart



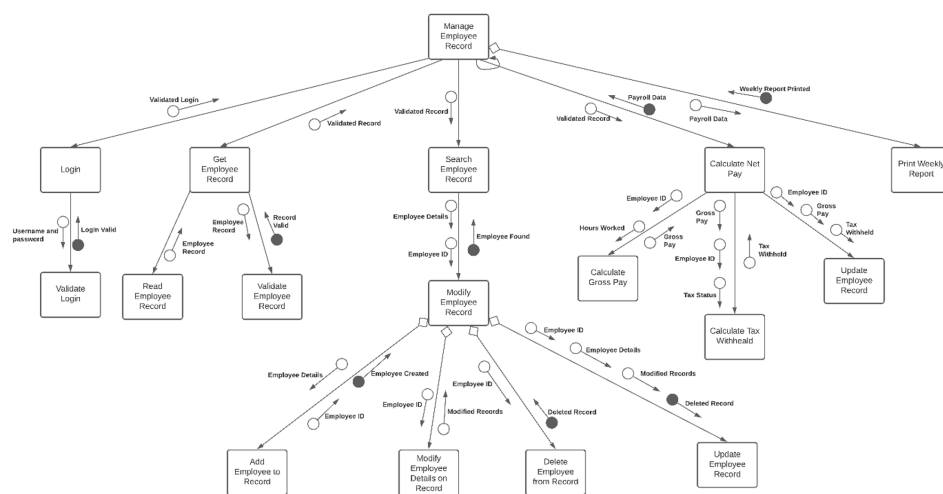
Context Diagram



Dataflow Diagram



Structure Chart



Algorithms

BEGIN Login

GET Username

GET Password

IF UserID == Username && UserPass == Password THEN

 Display "Login Successful"

ELSE

 Display "Login Failed"

ENDIF

END

BEGIN AddEmployee

OPENFILE

READFILE

SET i = 0

GET EmployeeDetails

GET LastID

IF LastID Not Found THEN

 i = LastID + 1

 Insert i = ID, EmployeeDetails = (Name, Surname, Address, PhoneNo,
 DOB, Gender, BSBNo, ACCNo)

ELSE

 Display Error

ENDIF

CLOSEFILE

END

BEGIN ModifyEmployeeDetails

OPENFILE

READFILE

GET Found

Get EmployeeDetails

If Found == EmployeeDetails THEN

 Stop Record Update

 Display Details are the same in the record

ELSE

 Update EmployeeRecord

ENDIF

CLOSEFILE

END

BEGIN DeleteEmployee

OPENFILE

READFILE

GET FOUND

 Delete ID Record

RETURN Confirmation

CLOSEFILE

END

BEGIN EmployeeSearch

OPENFILE

READFILE

Found = False

GET SearchID

WHILE items in array AND Not Found THEN

 Found = (SearchID = ID)

ENDWHILE

RETURN Found

Load Found into Array

CLOSEFILE

END

BEGIN WeeklyReport

OPENFILE

READFILE

Find EOF

RecordToPrint = MaxID Found - 1

Print RecordToPrint

END

Work Log

Date	What I did	What problems I faced	Solutions
5/02/2022	Created Gantt Chart	-	-
6/02/2022	Created Work Log	-	-
7/02/2022 – 8/02/2022	Created IPO Charts	Finding the proper Input, Process and Output.	Refined IPO Multiple times
8/02/2022	Created Data Dictionary	Figuring out what to put in.	Identified Fields to include.
10/02/2022 – 15/02/2022	Created Prototype	Issues in past prototype.	Refined Prototype
18/02/2022	Created / Modified System Flowchart	Didn't include database in flowchart.	Updated Flowchart to include database
24/02/2022	Created Context Diagram	Need to improve it.	Identified improvements that can be made.
25/02/2022 – 28/02/2022	Improved Context Diagram Slightly by changing the pointing information	-	-
2/03/2022	Created Structure Diagram	Couldn't identify what to place in what order	Looked online and looked at given resources to find out what to put.
3/03/2022 – 6/03/2022	Created Algorithms (Pseudocode)	Struggled to write Pseudocode	Researched on writing Pseudocode and improve already written Pseudocode.

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