



# **IT3010**

## **Network Design & Management**

### **3<sup>rd</sup> Year, 1<sup>st</sup> Semester**

<Project Report - PAF[Individually]>

<SellNBye System>

Submitted to

Sri Lanka Institute of Information Technology

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Registration Number : IT17044400 Hariharan V

Name : Hariharan V

Work load : Developing an API for member management service.

Registering a member

Viewing profile

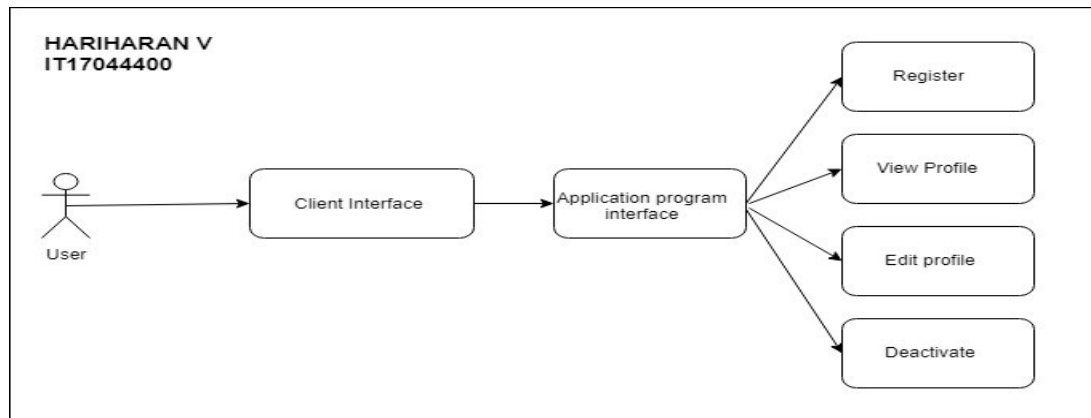
Updating member details

Deactivating member's account

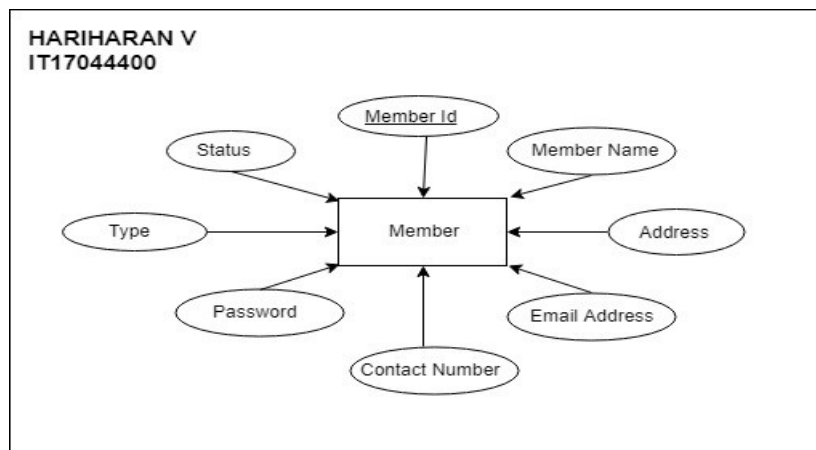
Login and logout function

Group Number :

[01] API :-

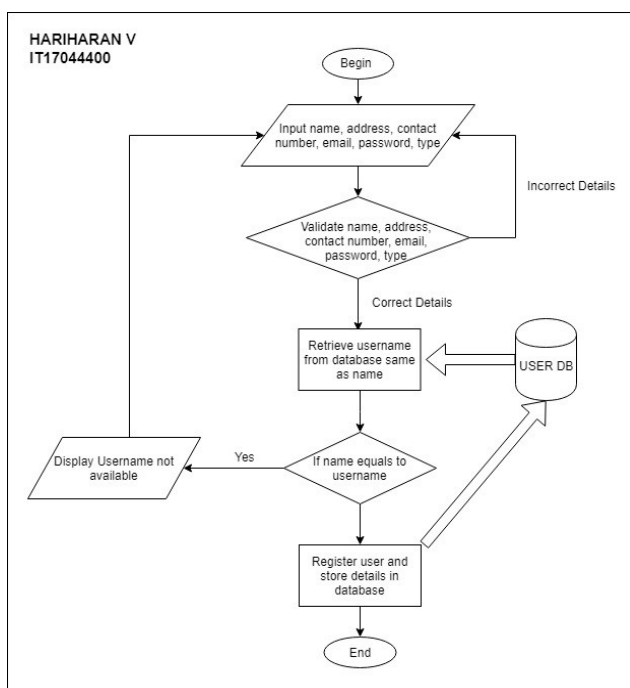


[02] Database for the service(ER)

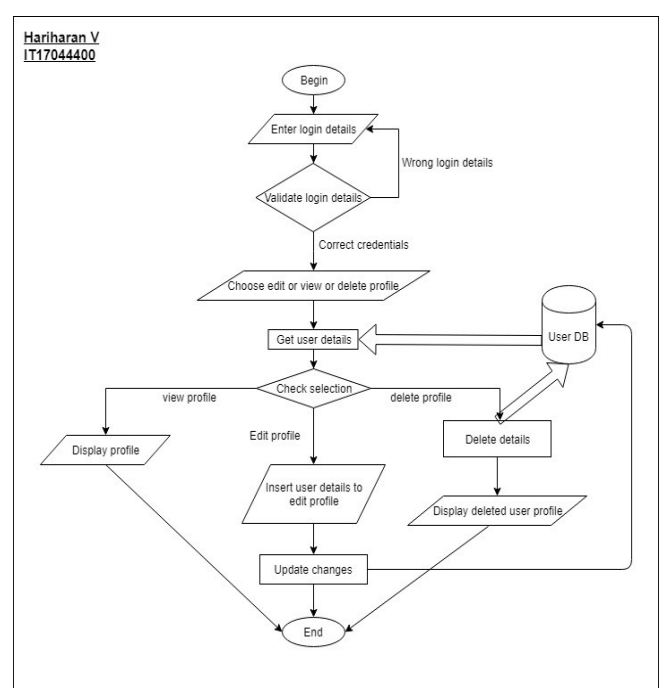


Since my service doesn't collaborate with my colleagues' services, I have drawn the ER diagram for only my service.

[03] Flowchart for register function.

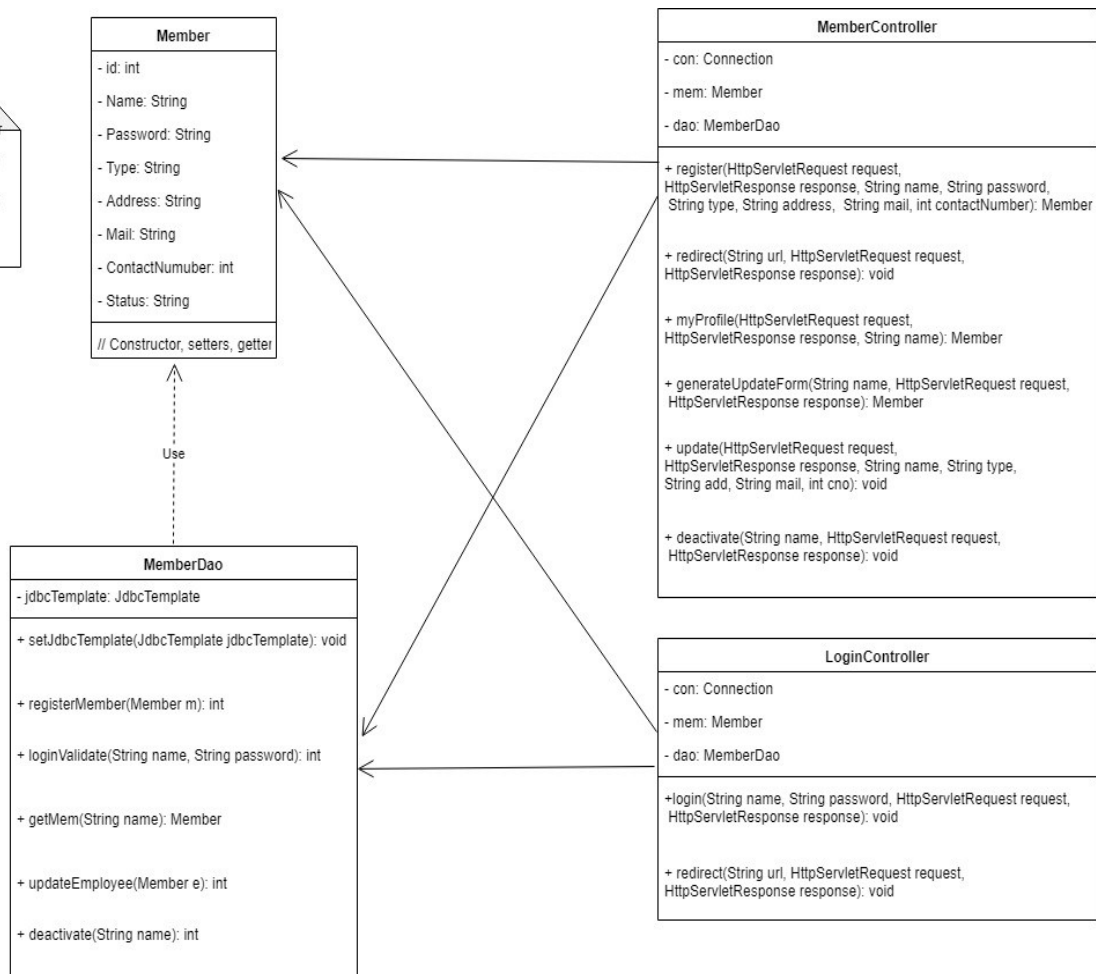
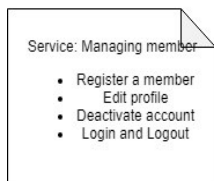


[04] Flowchart for login function.



## [05] Class diagram.

**Hariharan V**  
**IT17044400**



## [06] Assumption and relevant discussion:

Registering a member will help the clients to register them as a ‘registered seller or buyer’. This feature will enable the clients to post a product and to order them.

This system provides the clients to edit their profile, so that they can change their incorrect details or can update the current correct details.

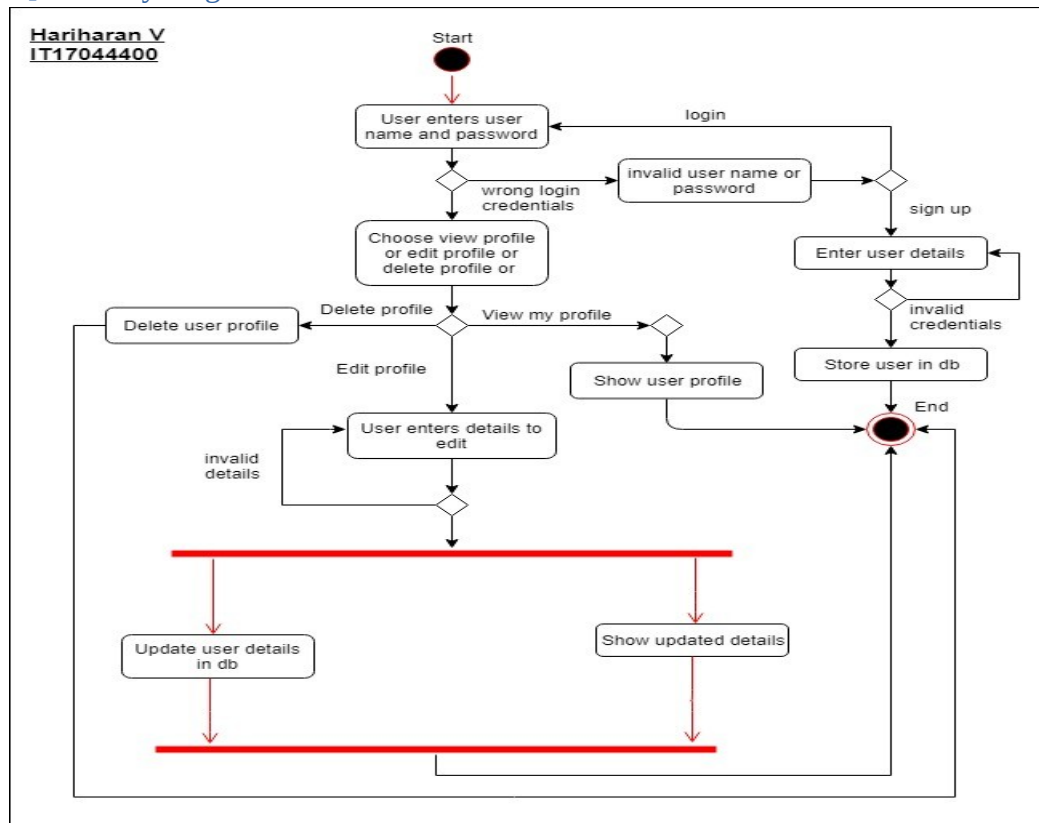
This system provides the users to deactivate their account, so that they can discontinue from using this system.

This system provides a login and a logout portal, using this the member can authenticate themselves before using this system.

This basic service will enable the clients to use the system’s services or special features.

In this system we have assumed that only 2 types of user (seller and buyer) are going to use this system. Providing two different perspective for both users to use this system.

[07] Activity diagram.



[08] Tool used and Testing methodology and results.

**Html, CSS, Bootstrap:** One of the recognized **methods** used for **front-end** web service development.

**Java, SQL:** One of the best method for **back-end** development is Java, which is a platform oriented technology. SQL is used for database queries, this is also one of the recognized technology. **Spring MVC framework** is one of the powerful **framework**, which provides many solutions for common problems in Java EE applications. It supports for managing business objects and exposing their services to the presentation tier.

**Eclipse** is used as our **IDE** for developing this project, this IDE is selected because our group members have a good experience with this, debugging, integration and connecting to GIT is very easy with eclipse IDE.

**MVC architecture** is used to easily code our project, and the best advantage of using MVC is that, code reusing is easy. Isolation of each model, view and controller is very convenient to use.

**PhpMyAdmin** is used as our database, this is one of the simplest database for small and medium sized business. One of the best database which provides a GUI for operations, this makes our work very easy.

[09] Service development and testing.

No	Page	Input	Excepted Result	Actual Result	Test Result
1	AddMember.jsp	Password: abc	Welcome name!!!	Welcome name!!!	Pass
		Re-Type Password: abc			
2	AddMember.jsp	Password: abc	Please re type	Please re type	Pass
		Re-Type Password: cba	password again!!!	password again!!!	
3	AddMember.jsp	User Name: Hariharan	Member added	Member added	Pass
		"Non-existing username in db"			
4	AddMember.jsp	User Name: Hariharan	Member failed to add	Member failed to add	Pass
		"Existing username in db"			
5	logReg.jsp	User Name: Nalaka	Login invalid	Login invalid	Pass
		"Non-existing username in db"			
6	logReg.jsp	User Name: Hariharan	Redirect to Homepage	Redirect to Homepage	Pass
		Password: h123(record in db)			
7	logReg.jsp	User Name: Hariharan	Login invalid	Login invalid	Pass
		Password: h321(wrong password)			

[10] Reference:

<https://www.youtube.com/watch?v=DWPN45AJA3k>

<https://www.smartdraw.com/activity-diagram/>

<https://www.baeldung.com/spring-jdbc-jdbctemplate>

PAF Assignment 2019

Sell 'N' Buy is an e-commerce system, this provides the registered users to advertise their products and registered sellers to order and purchase them. This system is developed using RESTful communication, and spring MVC architecture.

