PROJECT REPORT

CST243-3

System for Janajaya Farmer's Association

Computer Science and Technology

Department of Computer Science and Informatics

Uva Wellassa University

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Contents

Chapter 1. Introduction

Title of the project

System for Janajaya Farmer’s Association

Project Background

Janajaya Farmer’s Association is organization with a large number of farmers. The biggest crisis facing farmers today is the inability of farmers to get their hard-earned harvest at a good price and the inability of farmers to get agricultural fertilizer on time and the farmers' organization and farmers not standing up. Enough seeds for the next group. The Janajaya Farmers' Association has not been able to properly transact money because it has not been able to inform farmers of the exact price. Another reason is that they record data in data books and do not record them properly. They also do not have a proper understanding of the amount of harvest obtained by the Farmers Association in each case in this area. Therefore, we created a system to properly manage the harvest of this farmers organization. Anyway today, all activities in the Anuradhapura area are working with technology to solve their problems.

Project Scope

We could find all problems. We think our project abled to solve their problems and move this forward in a proper manner. We created a system here to store their data and calculate the amount of money required to give to the Farmer according the quantity of Paddy taken. Therefore the Farmer can get the value immediately and they can get correct information about the quantity of Paddy in the warehouse.

Chapter 2. Requirements

This chapter of the project document provides system features of the proposed system. This describes about Functional requirements, Non-functional requirements, User level and User roles of proposed system.

Functional requirements

- User Registration

- User Logging
- User profile management
- Manage Payments
- Manage Store

Non-functional Requirements

- **Efficiency**

  User should be able to get details quickly and The Login information shall be verified within five seconds.

- **Availability**
  It should be available in anytime of the day

- **Security**
  All system data and user's personal data will be protected and only Admin able to view/access the data.

- **Maintainability**

  The System should be easy to maintain

User Roles and User Levels

- **Admin (Manager)**
  - Register to the system
  - Login to the system
  - Manage profiles of users

- Add, Update and Delete details of paddy
- Manage pay

Chapter 3. Methodology

In this project we used the Rapid Application Process Development process model which was based on prototyping and iterative development with no specific planning involved. A prototype is a working model that is functionally equivalent to a component of the product. In this model client can be involve and with the process and customer's feedbacks are encouraged, because of that it will reduce the risk of non-conformance with the actual user requirements. So In this process requirements are flexible and can be changed in the later of the process. According to the different features and functions prototypes will be created and then after by showing that to the client relevant changes will be done to the prototype. There are 4 phases in this RAD process,

- Requirements Planning -Concept Definition
- User Design – Functional Design
- Construction
- Cutover – Deployment

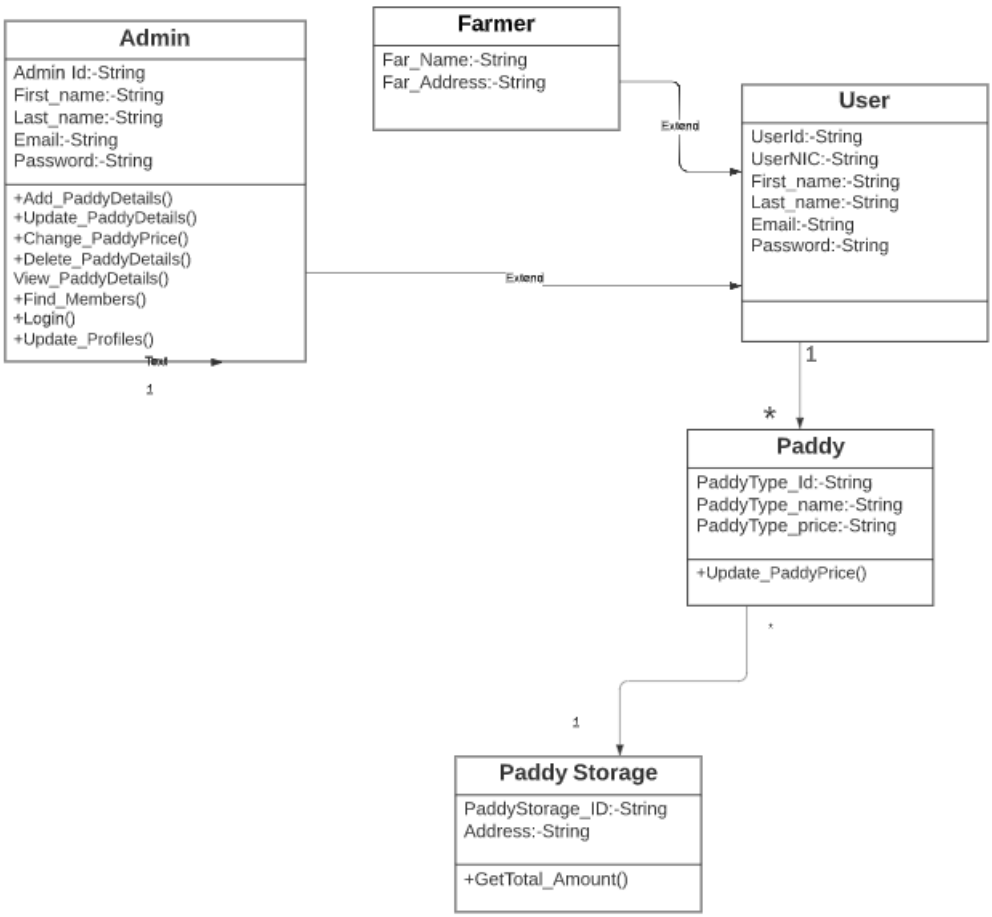
In the requirements planning phase focus on initial requirements and the project scope. In the construction phase takes the prototypes and beta systems from the design phase and converts them into the working model and converts the data model into a functional database. This phase may also be repeated as required and until the application is completed. Cutover phase is the implementation phase where the finished product goes to launch. It includes data conversion, testing, and changeover to the new system, as well as user training.

In this project we have identified the requirements and have analyzed them, by using that we have designed

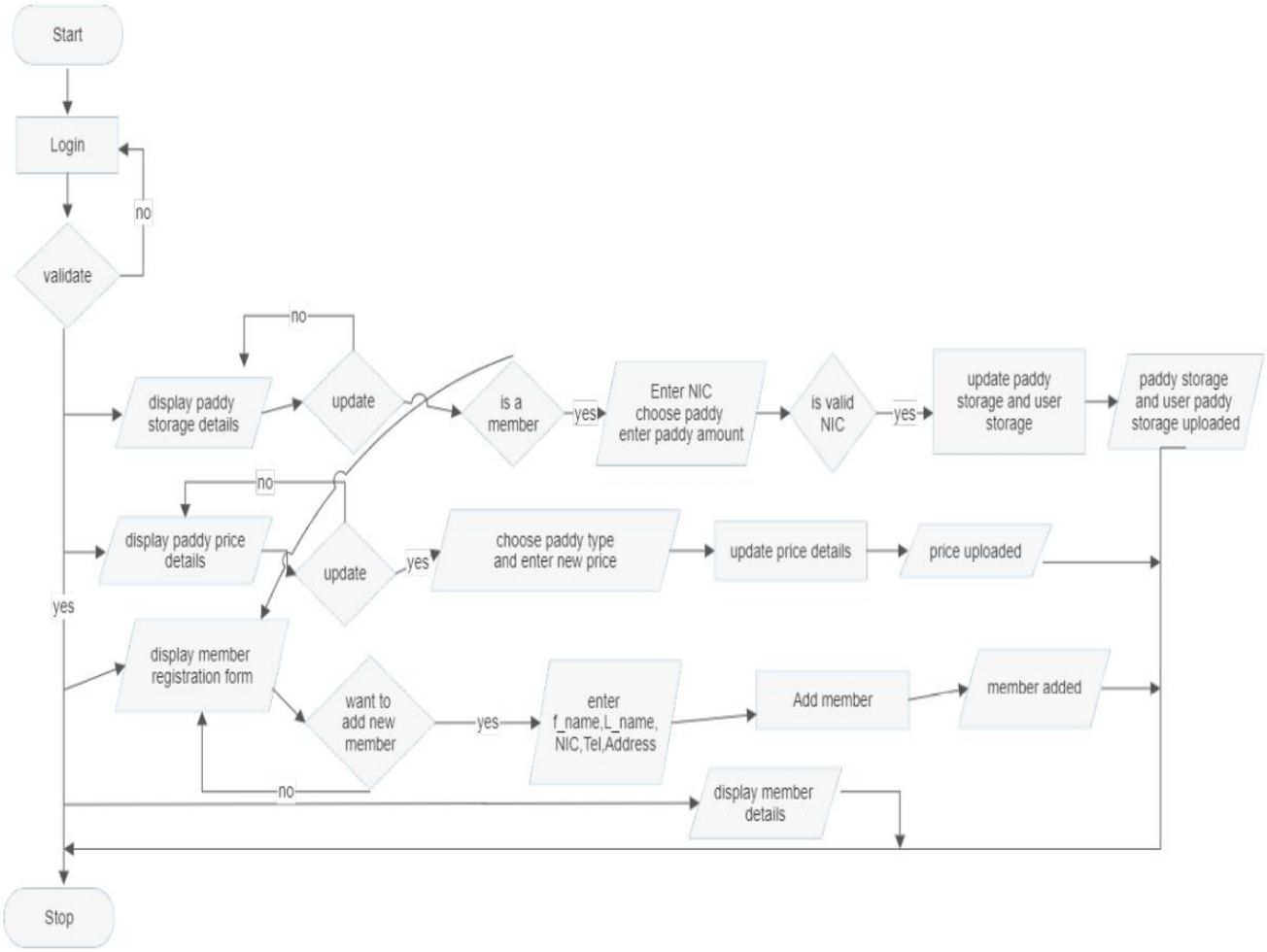
a low fidelity prototypes using storyboarding concept. It consists with a series of sketches. It shows the how our client/manager of the mall interact with the application. In the first slide it shows the price of the paddy according to various paddy type and give a chance to go to the next

step. By going to the next phase stored paddy details will be shown and clients have two choices whether update or exit. By choosing the update he can go further of the process and whether customer is a new or a if he is an already member process will be different. In here it shows the how it will be happened if the customer is a new member. By entering customer/farmer details he can be a registered customer and for selling paddy stock customer should be a registered customer. After the paddy stock transaction, according to the transaction stock, stored paddy details will be changed. Whether client's sake he can see the stored paddy details and after that he can exit from the application.

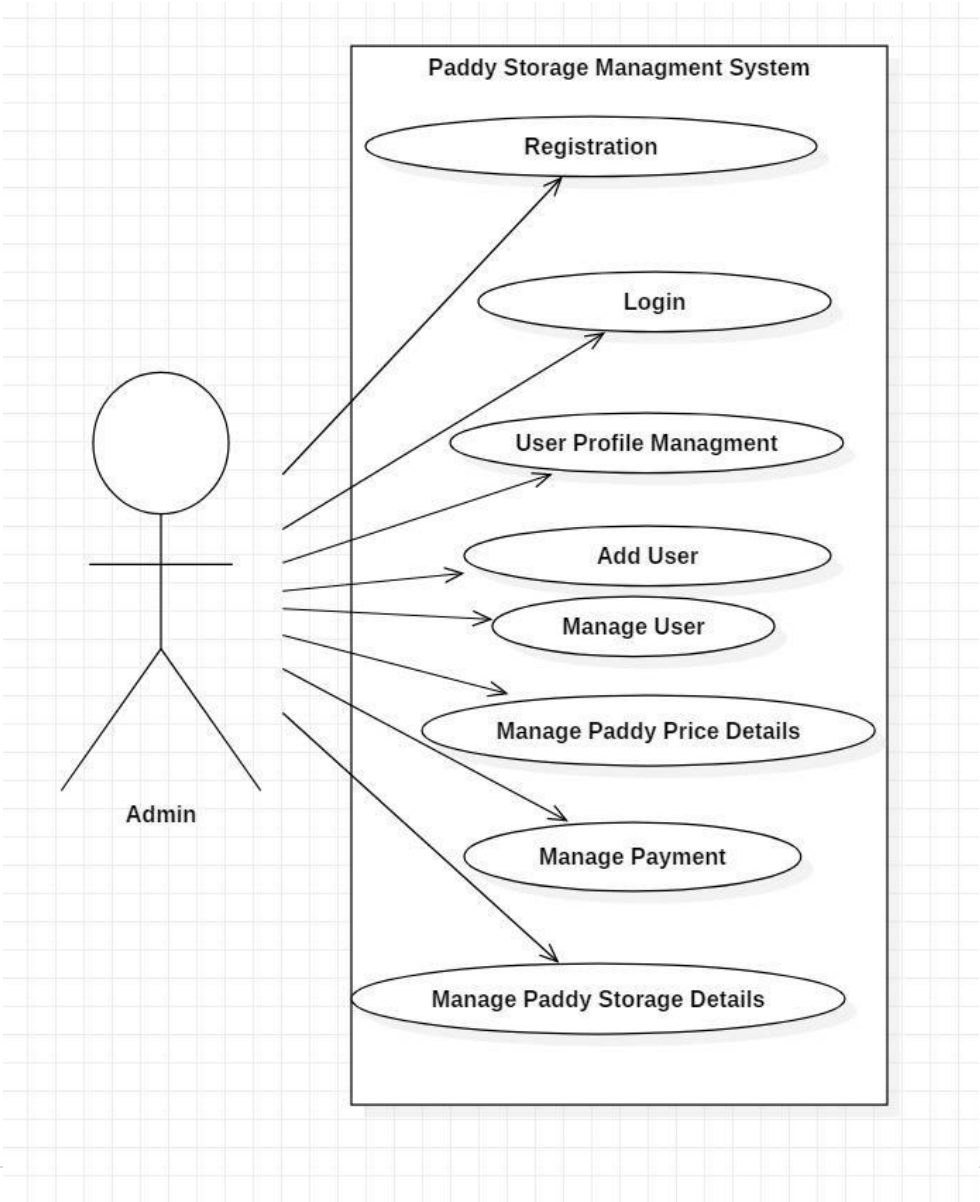
Class diagram



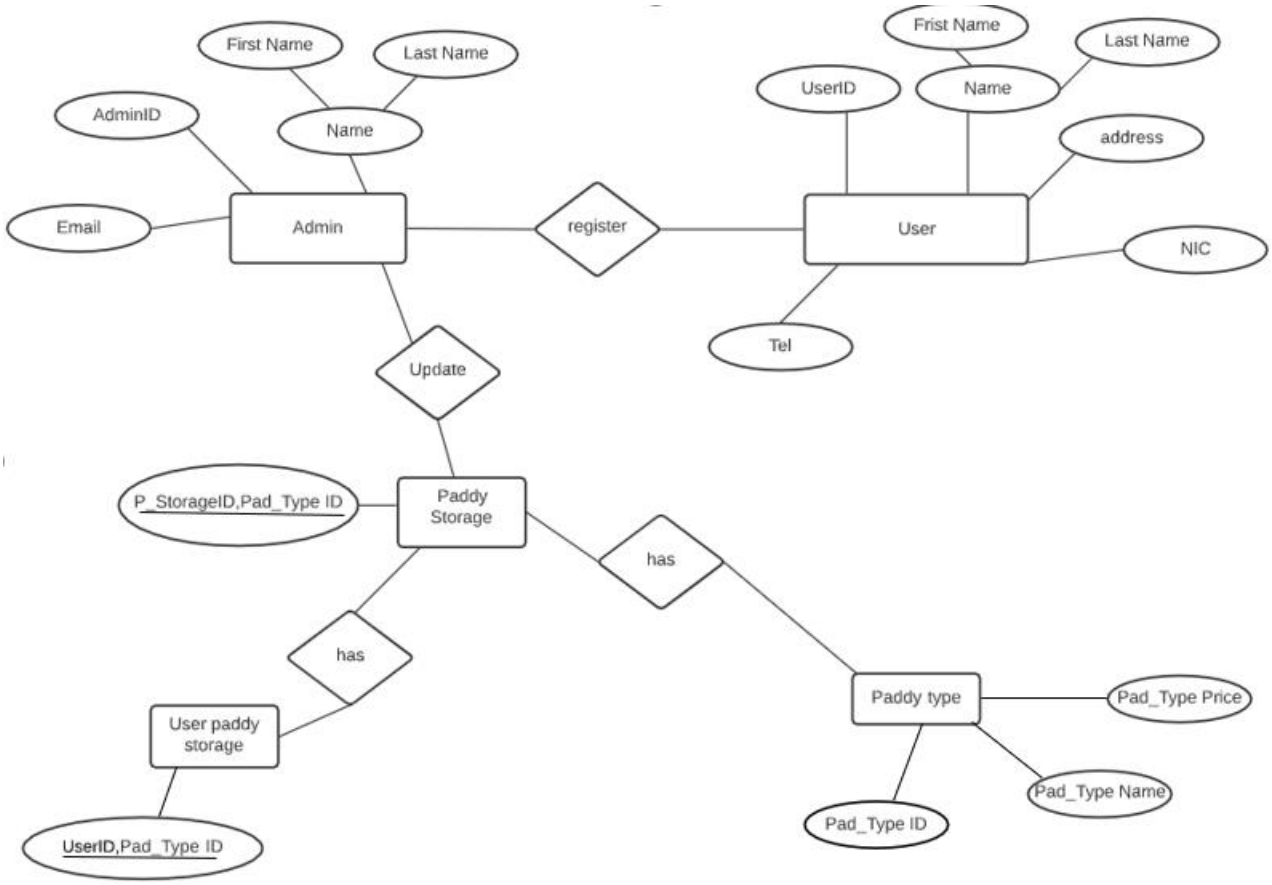
Flow chart


Start
Login
no
validate
yes
no
display paddy storage details
update
is a member
yes
Enter NIC
choose paddy
enter paddy amount
is valid NIC
yes
update paddy storage and user storage
paddy storage and user paddy storage uploaded
no
display paddy price details
update
yes
choose paddy type and enter new price
update price details
price uploaded
display member registration form
want to add new member
yes
enter f_name,L_name, NIC,Tel,Address
Add member
member added
no
display member details
Stop

Use case Diagram



ER diagram



Chapter 4. Resources (Hardware / Software) and Technologies

Software	Technologies
IntelliJ IDEA 2020.3.3	SQL
MySQL 5.7.14(64 bit)	Java

Hardware

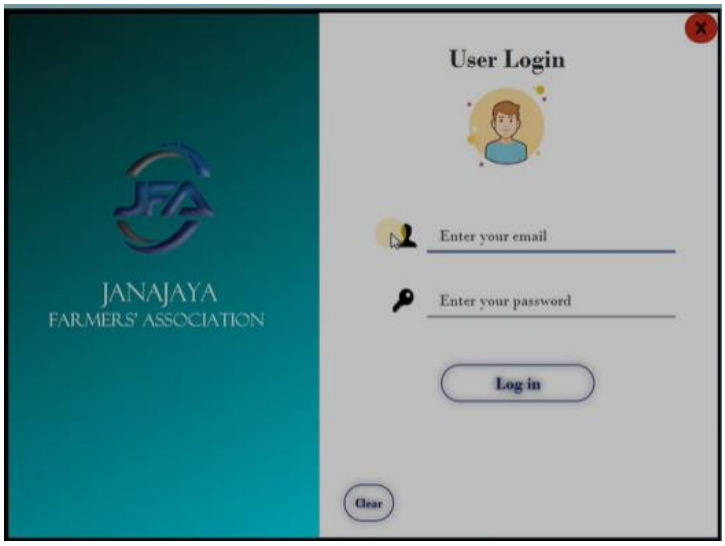
Windows 10- 64 bit

Ram 4GB

Hard space 500GB

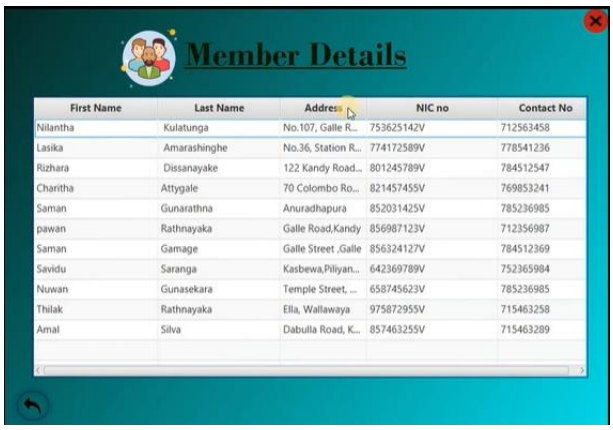
Chapter 5. Result and Discussion

❖ This is our front page of Janajaya Famer's Association. Then click this arrow, go to the next page.



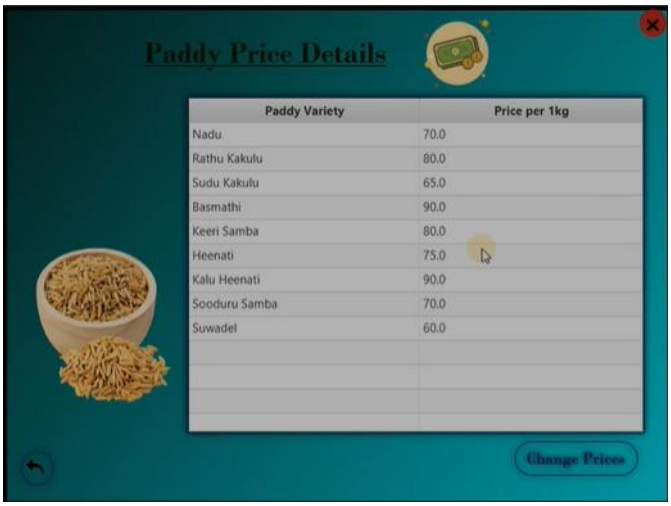
❖ And this is "User Login" page. Firstly Admin must login to the system. If Admin didn't fill email and password and click "Log In" button there is a message "Please fill email and password". Then Admin fill wrong email and password and click "Log In" button there is a message "Please enter the correct email and password".

❖ This is our Main page. There are 4 button (Paddy Storage, Paddy Price Details, Add Member, Member Details).
When Admin click “Member Details” button who can see the members of system. button Admin can see the members of system in “Member Details” page.



❖ After click Paddy Storage button Admin can see this page .If you want to update storage. click update button

Here Admin want to add member’s NIC No which is already added to the system if you add non-added NIC No, there will be a message box saying ”Please enter valid NIC No”. then choose paddy variety, paddy amount(kg) and click calculate button Admin can see “price per 1kg” is automatically insert according to our database. Then total price will display by paddy amount * price per 1kg.
Admin can pay money for member according total price. After that click update button and paddy storage details will update by clicking ‘see now’ button can see it.

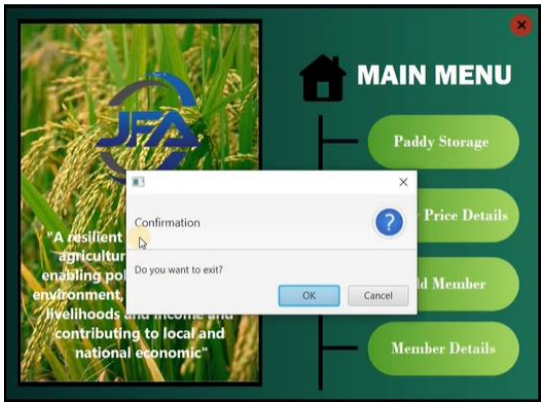


❖ When Admin click "Paddy Price Details" button. Admin can see price per unit of paddy varieties. If Admin want to change price per unit some paddy varieties .Then click change prices button and,

❖ Choose the paddy type and give new price admin want. Then click "Update" button and click "See now" button. After admin can see that you changed price in "Paddy Price Details" page.

❖ If Admin want add Member please click "Add Member" button in main page and,

❖ This is "Member Registration Form". If Admin didn't fill and click "Register" button. Then display message" Please fill". So Admin must fill this and click "Register" button then who can see that new member added to the "Member Details" table in "member details" page.



❖ After that if Admin want exit that system, click X of any header. Then who can see message and click "OK" button. Then Admin can exit that system.

Chapter 6. Conclusion.

In this project, we developed a system for paddy management for 'Janajaya Association'. We designed this system with a focus on the following areas:

• User Registration

• Logging

• User profile management

• Manage Payments

• Manage Store

By creating this system, farmer's information related to 'Janajaya Association' can be obtained quickly. It is also possible to get a basic idea of the total amount of paddy in the warehouse. It also enables farmers to get the right amount of money for their paddy very quickly and accurately. So this system help to minimizes the vulnerabilities in 'Janaya farmer's association' and proper management.

Group Members:

	Name	Registration No	Email	Contact Number
1	M.D.U.N.Wijesingha	UWU/CST/18/001	wijesinghaumesha@gmail.com	0765539823
2	D.G.T.S.Gunathilaka	UWU/CST/18/041	4thilagunathilaka@gmail.com	0769925717
3	W.A.D.Madusanka	UWU/CST/18/052	mr.deeshan@gmail.com	0758088080
4	W.S.M.Fernando	UWU/CST/18/056	sumal.m1998@gmail.com	0772490506