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Introduction

TECMIS is the official Information management system website of the Faculty of Technology, University of Ruhuna. This website is used by the Lectures and all students of the faculty. As well as each and every student should keep a continuous interaction with TECMIS because the important notices will be posted, and course and exam registrations will be helpful with using this system. But the current system is not having a user-friendly interface and there are some features that’s having some mistakes. So, those issues should be corrected in an effective manner

In this project, we are going to redesign an interface for the TECMIS following HCI principles. So, it will be an effective and efficient web page. In our design, we focused on the user-friendliness, usability, and completeness of the functions

# Chapter 01

## PACT Analysis

### People

|  |  |  |
| --- | --- | --- |
| User | Characteristics | Goals |
| Student | * Can be male or female * Above 19 years old * Purpose visit to the system * May or may not have experience | * User-friendly interaction * Good impression * Easy access to functions * Provide a guide for first time user * Simple format and design * Information sharing * Giving feedback feature |
| Lecture | * Can be male or female * Purpose visit to the system * May or may not have experience with this type of system | * Quick access to the function * User-friendly interface * Easily find functions * Provide a user guide for the first use * Feedback feature |
| Dean |  |  |
| Administrator | * Can be male or female * Expert knowledge * May have experience |  |

### Activity

|  |  |
| --- | --- |
| User | Activity |
| Student | * View notices * View course registration * Register for the courses * Register for the exams * View exam results * View GPA * View mentor details * Order foods * Change the personal details * Change password |
| Lecture | * Post, View notices * View mentoring details * Change personal details * Change password * View the course list |
| Dean | * Post, View notice * View student details * View lecture details * Change password |
| Administrator | * Manage notices * Manage Students * Manage lectures * Manage Exam registrations * Manage course registrations |

### Context

* Can access the system from any location
* Can access the system any time
* Limited people can access the system
* Use the system for some purpose

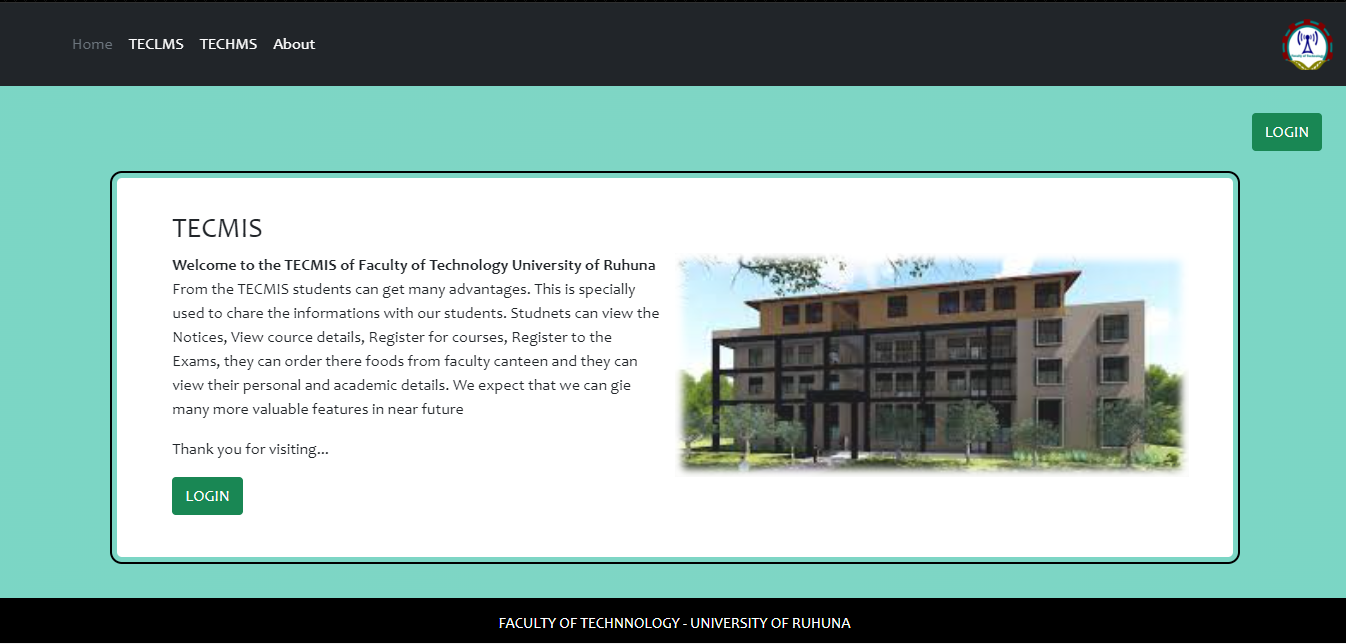
### Technology

* Smartphones, Laptops
* Touch or mouse-based
* Touch or physical keyboard
* GUI

# Chapter 2

## 2.1 System Interface

### 2.1.1 Home page



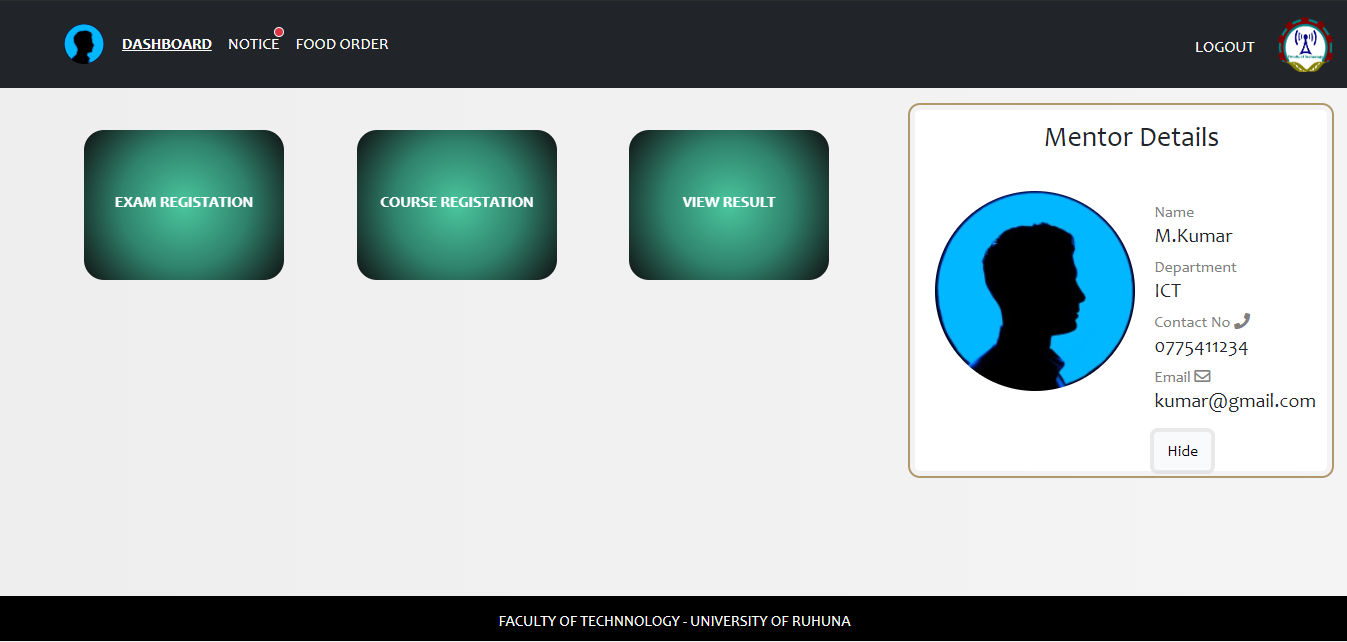
TECMIS

Figure 1: Index page

### 2.1.2 Navigation bar



Figure 2: Existing navigation bar



TECMIS

Figure 3:Proposed navigation bar

### 2.1.3 Login



Figure 4:Existing system login

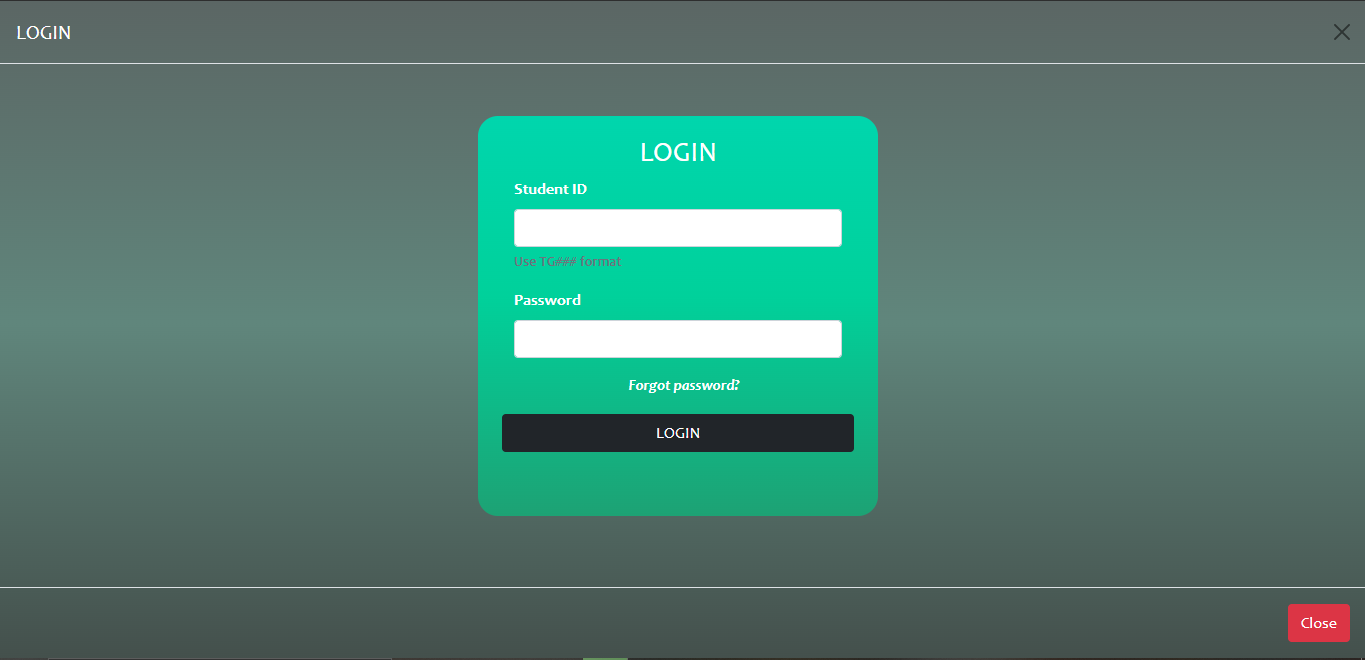
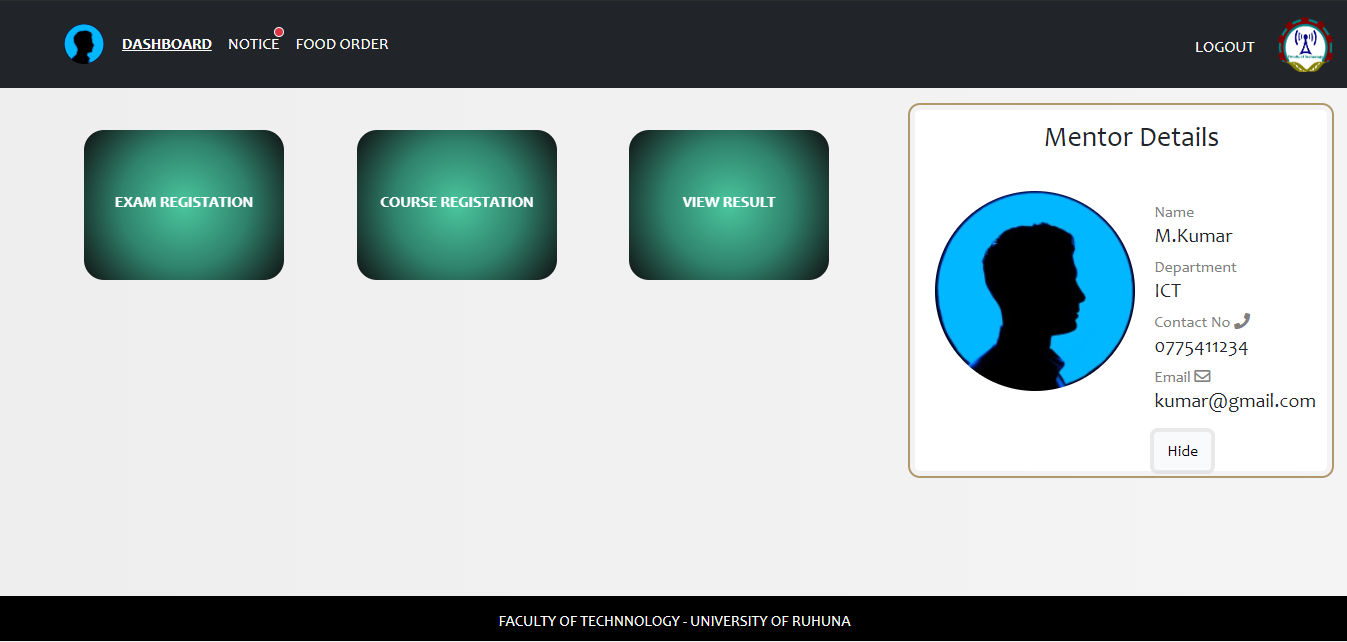


Figure 5:Proposed system login

### 2.1.4 User Dashboard



Figure 6: Existing dashboard



TECMIS

Figure 7: Proposed dashboard

### 2.1.5 Change password

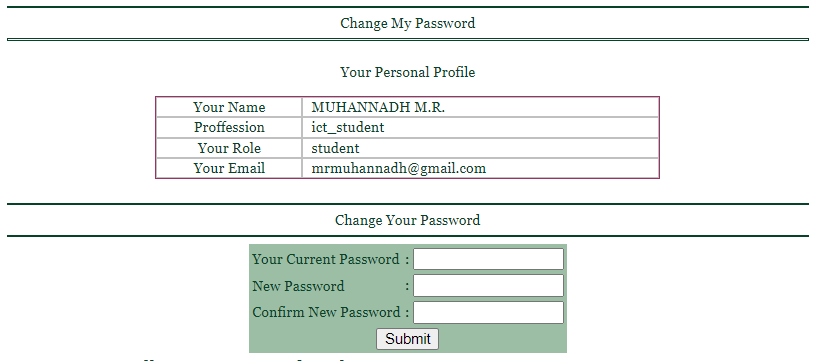


Figure 8: Existing system change password

### 2.1.6 Exam Registration

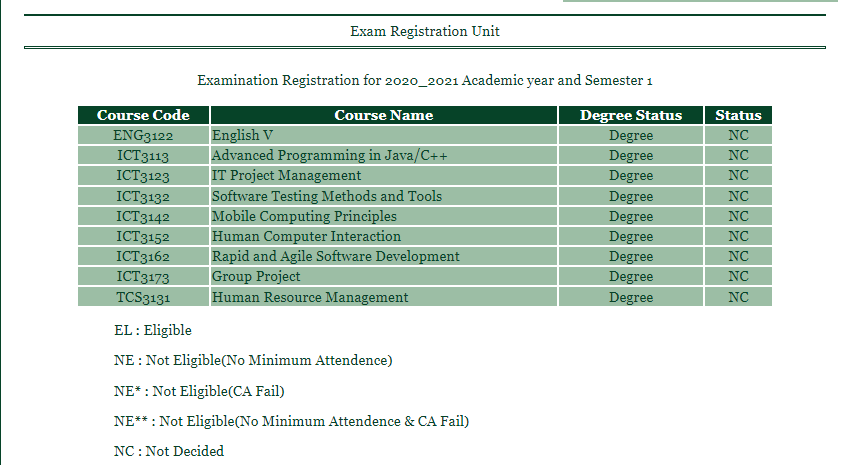


Figure 9: Existing system Exam Registration

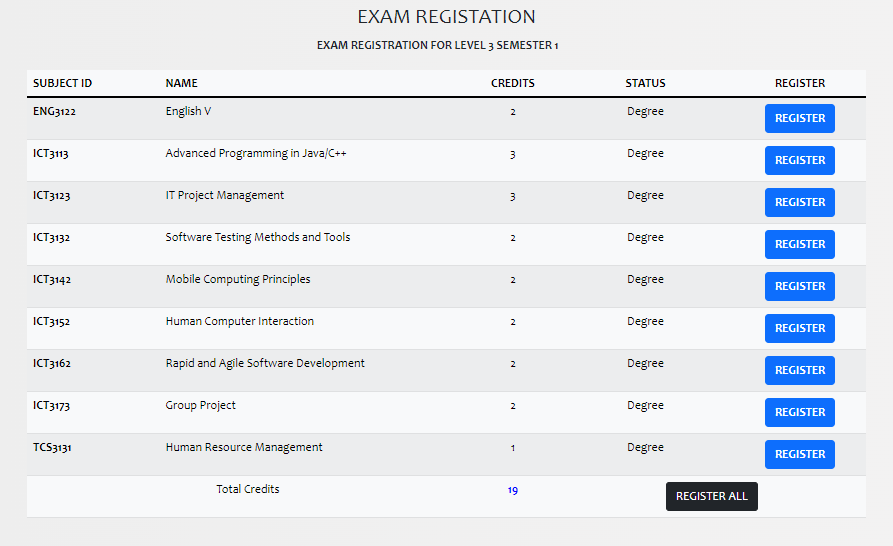


Figure 10: Proposed system exam registration

### 2.1.7 Course Registration

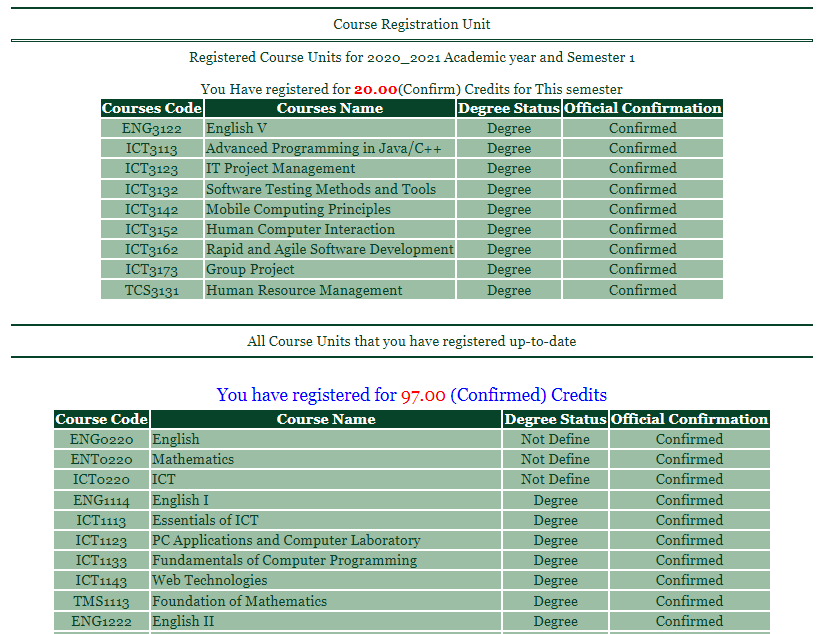


Figure 11: Existing System course registration

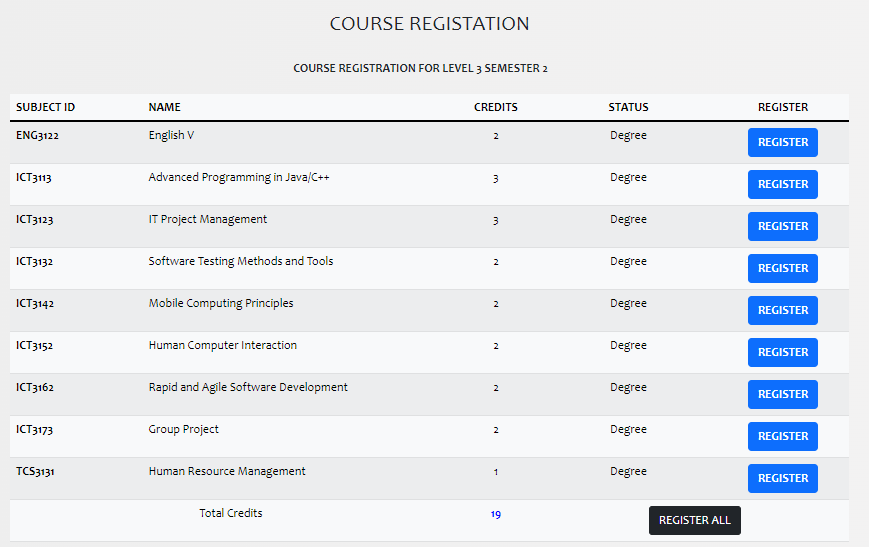


Figure 12:Proposed course registration

### 2.1.8 View Result

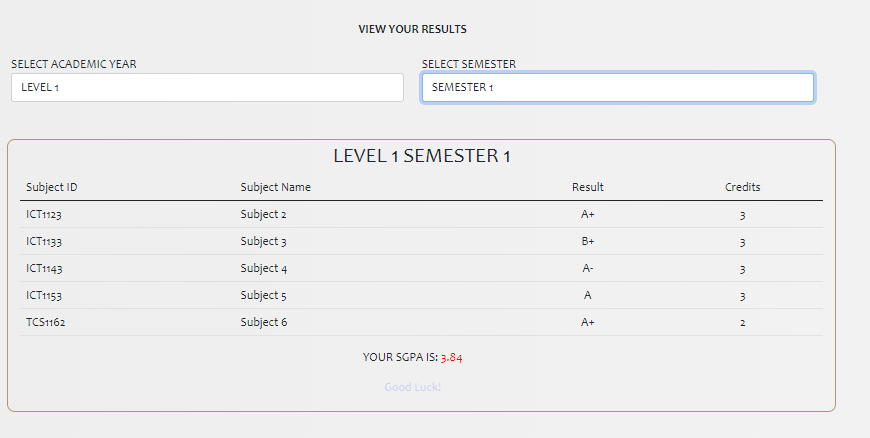


Figure 13: Proposed system view results

### 2.1.9 Attendance

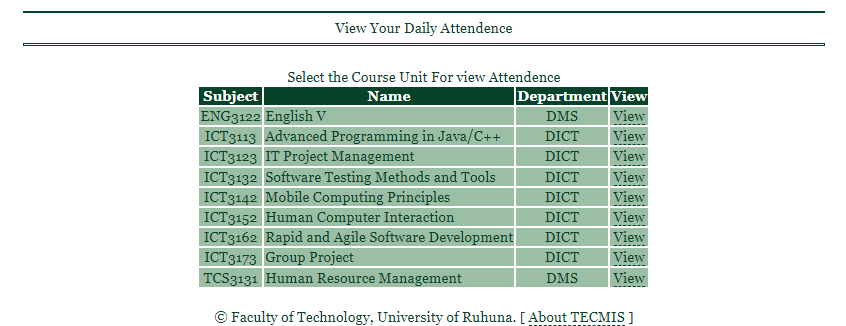


Figure 14:Existing system attendance

### 2.1.10 Food Order

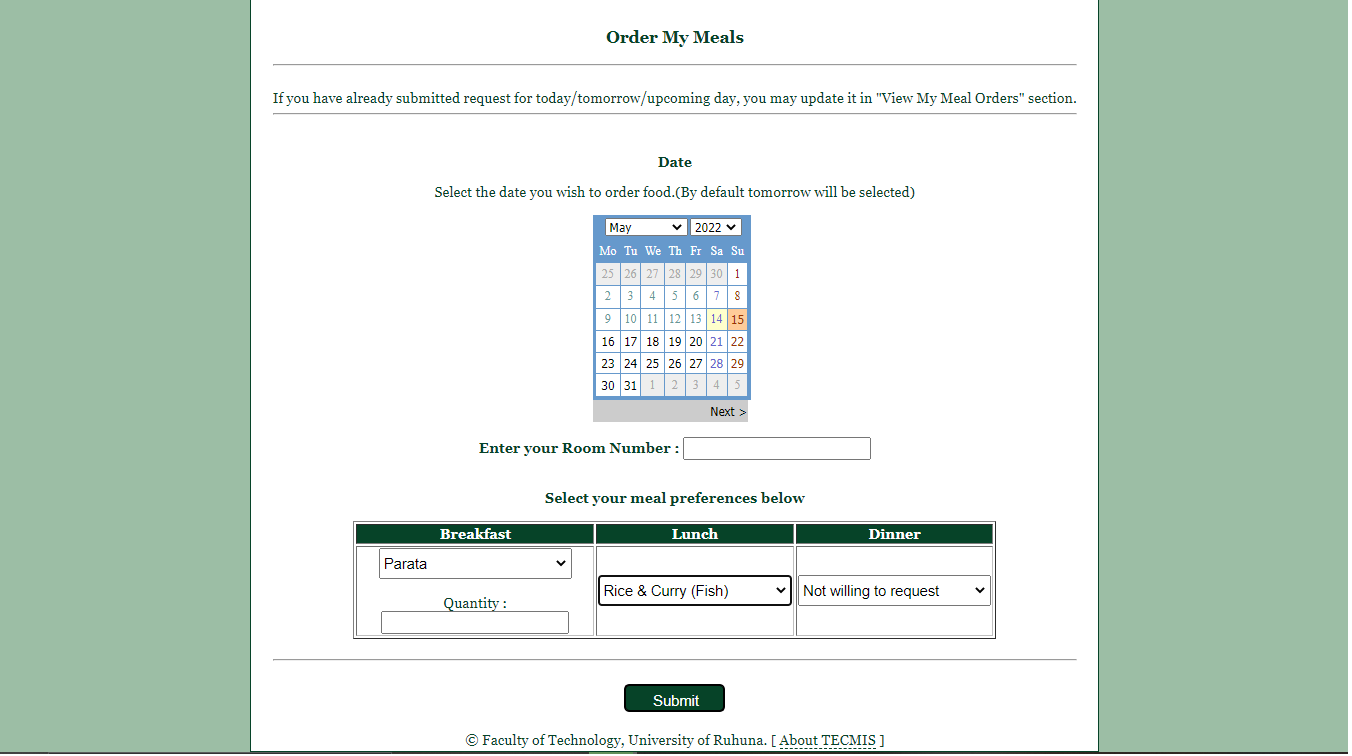


Figure 15: Existing system food order

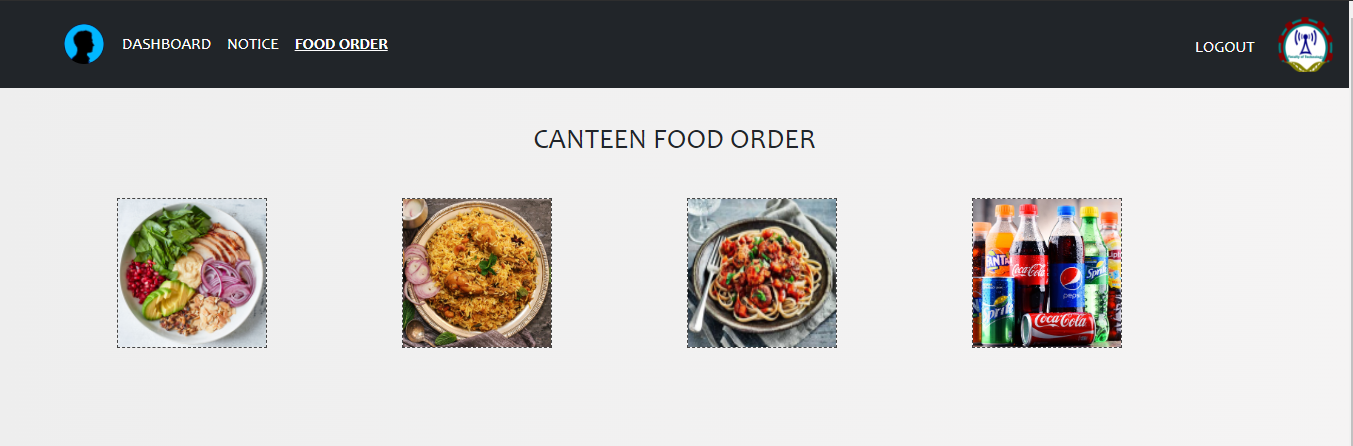


Figure 16:Proposed system food order 1

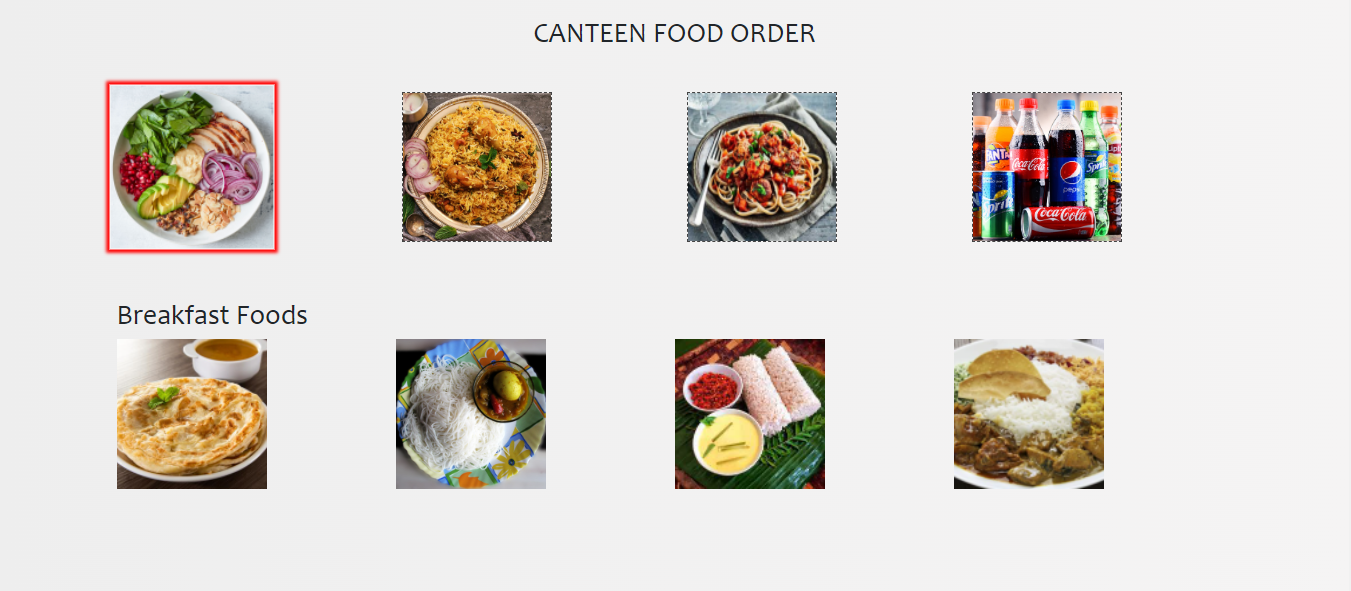


Figure 17: Proposed system food order 2

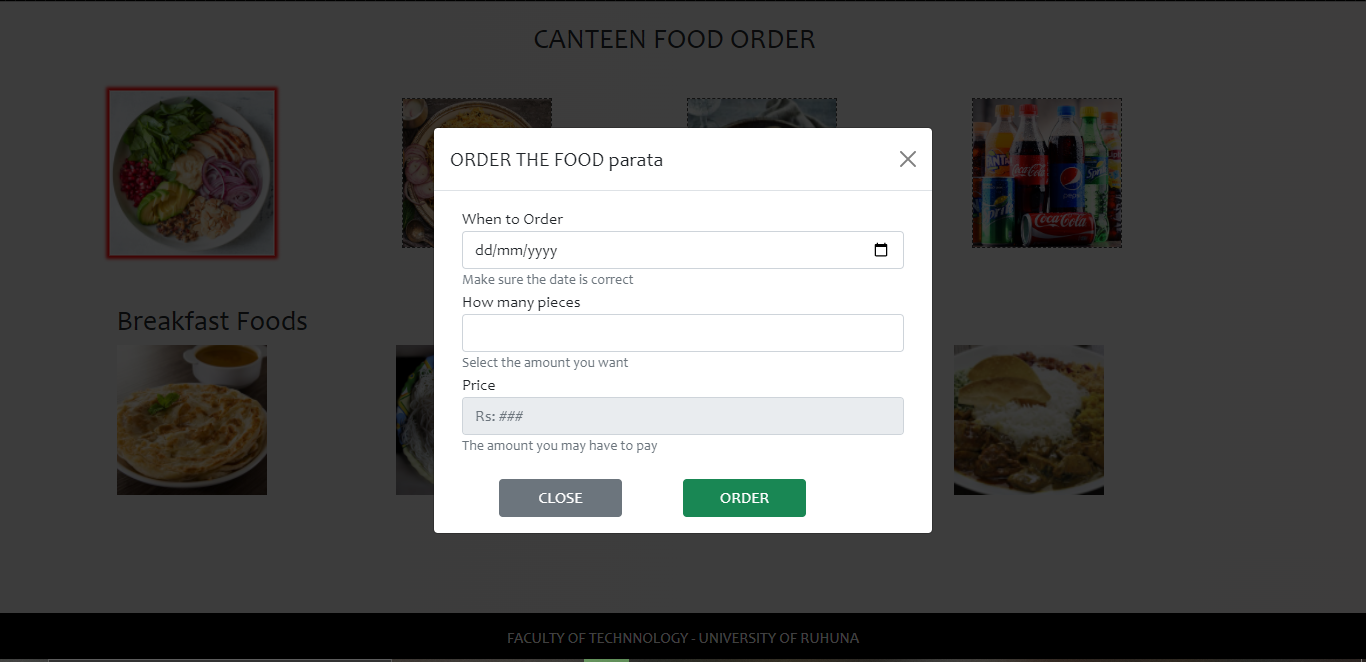


Figure 18: Proposed system food order 3

### 2.1.11 Notices

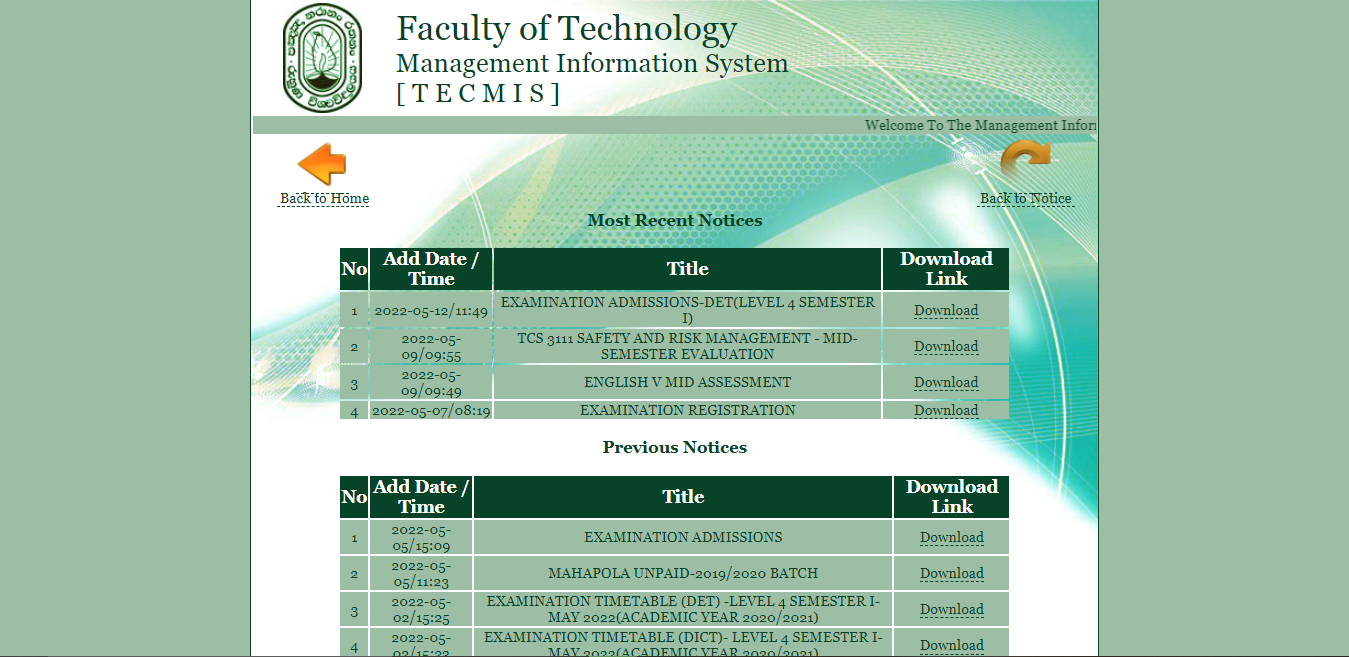


Figure 19:Existing system notice

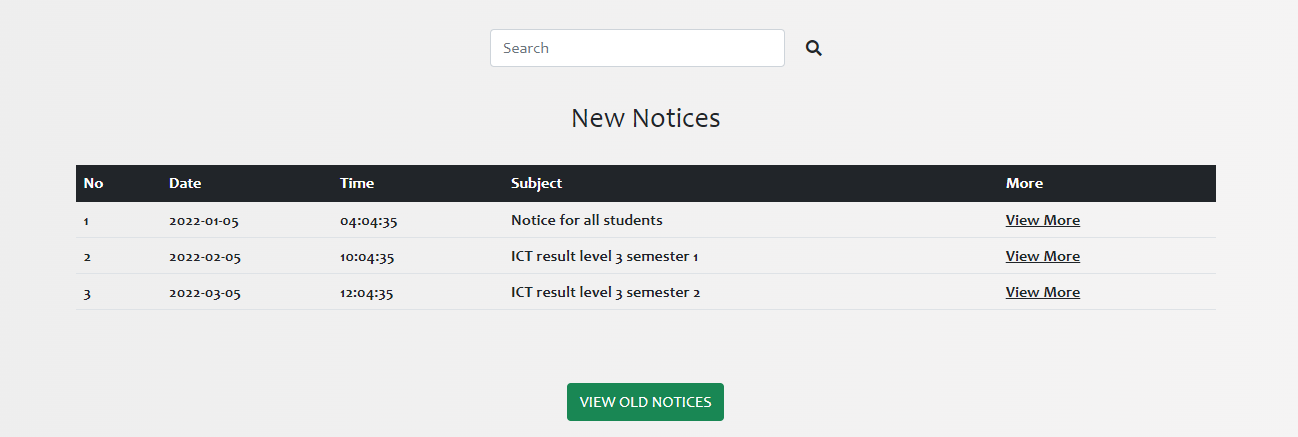


Figure 20: Proposed system notice

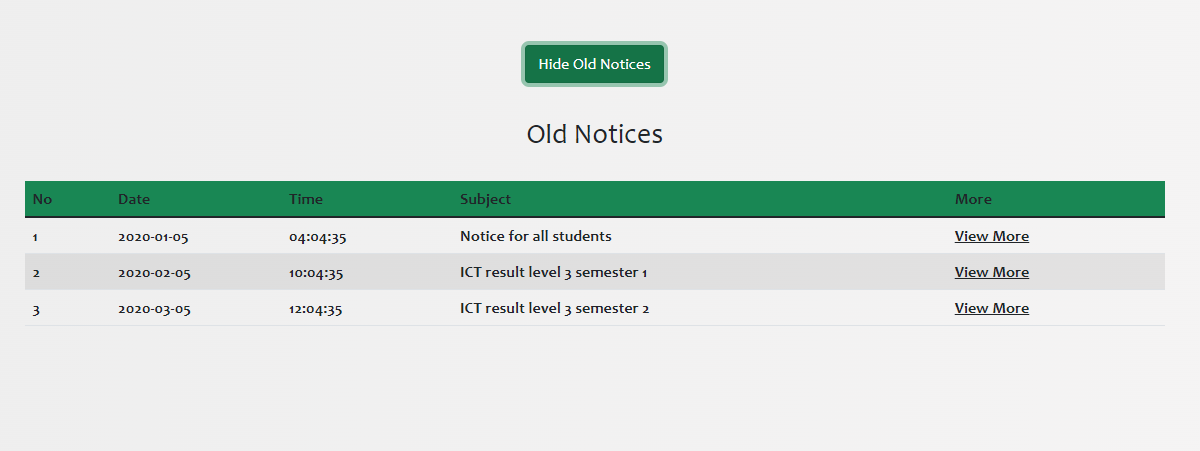


Figure 21: Proposed system old notices

### 2.1.12 Logout conformation

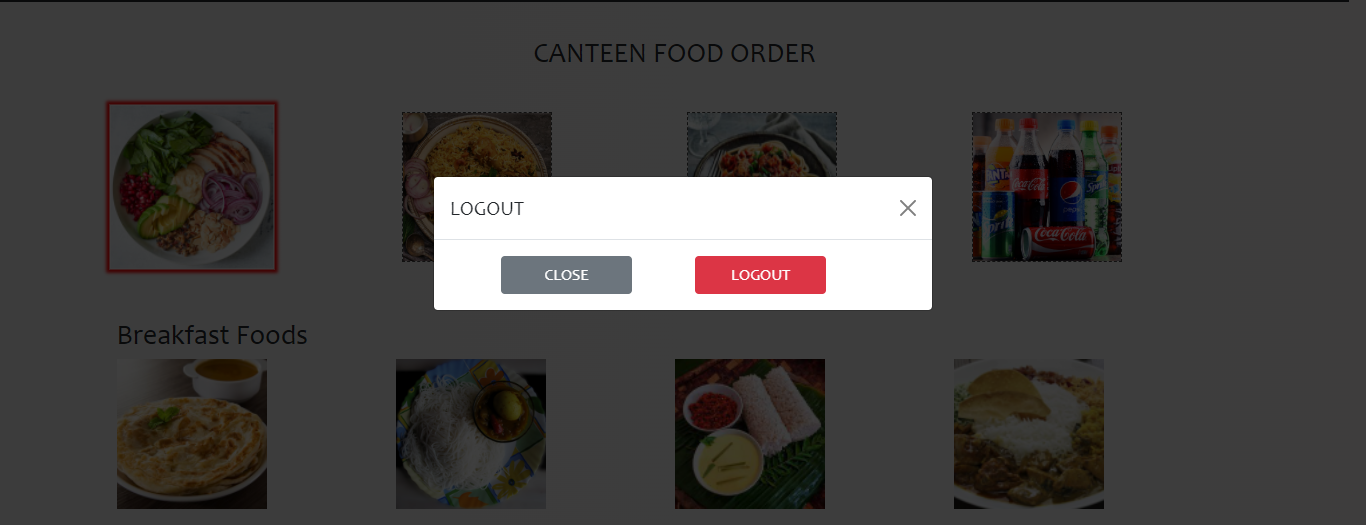


Figure 22:Proposed system logout conformation

# Chapter 3

## 3.1 Keystroke level modeling