



IUBAT-International University of Business Agriculture & Technology

Report

on

“Meal Management System for Mess”

This report is prepared for partial fulfillment of CSC 383 – Programming Language JAVA

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Introduction

In Bangladesh majority of the students stay in a mess and continue their study. Generally, there is a manager in every typical Bangladeshi mess. It's a major responsibility for a manager to conduct all terms related to meal for a month. Some common responsibilities are:

- ✚ Collecting money from the border.
- ✚ Conducting daily bazar or assigning some other border.
- ✚ Documenting all the cost related to meal.
- ✚ Documenting daily meal (breakfast, lunch and dinner) of each border.
- ✚ Calculating meal rate (cost of one meal) at the end of the month.
- ✚ Calculating how much each border should pay to the manager or the manager should pay to the border, at the end of the month.

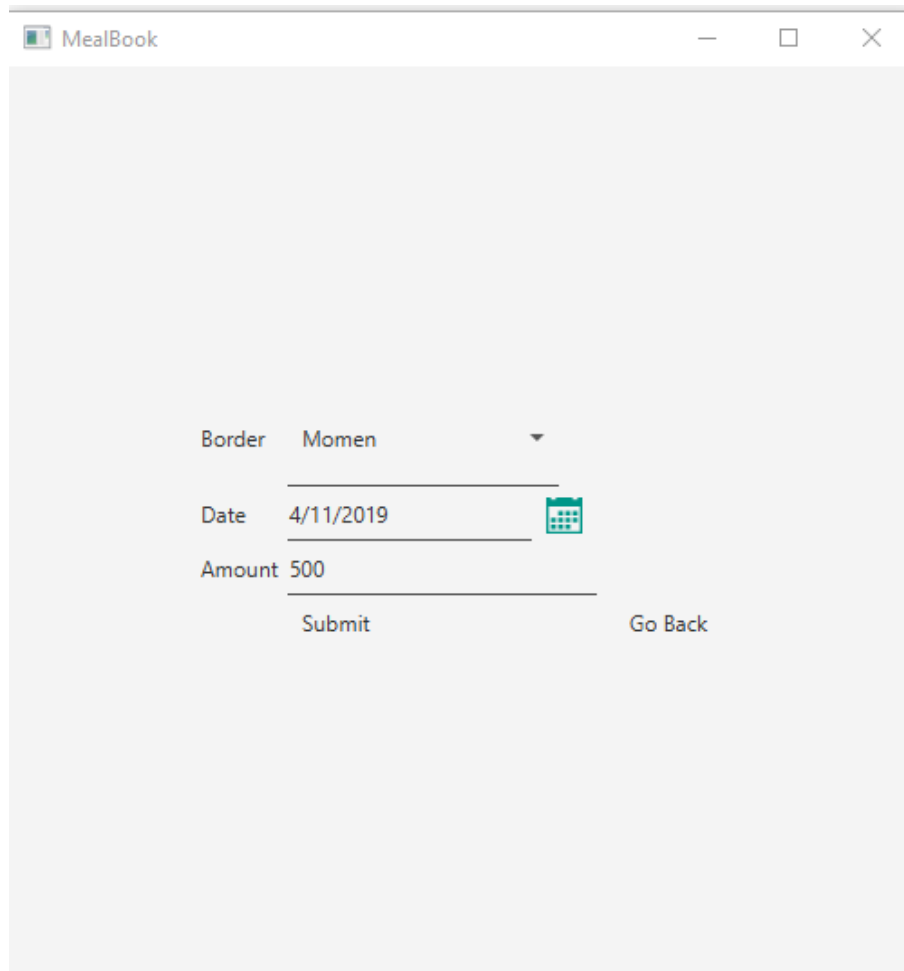
In a typical mess all these records are kept manually. And it's a big challenge for the manager.

Keeping this in mind our team has tried to develop a "Meal Management System for Mess" to make it a little bit easier for a manager.

Features:

Deposit

The manager can deposit money for each border including date.



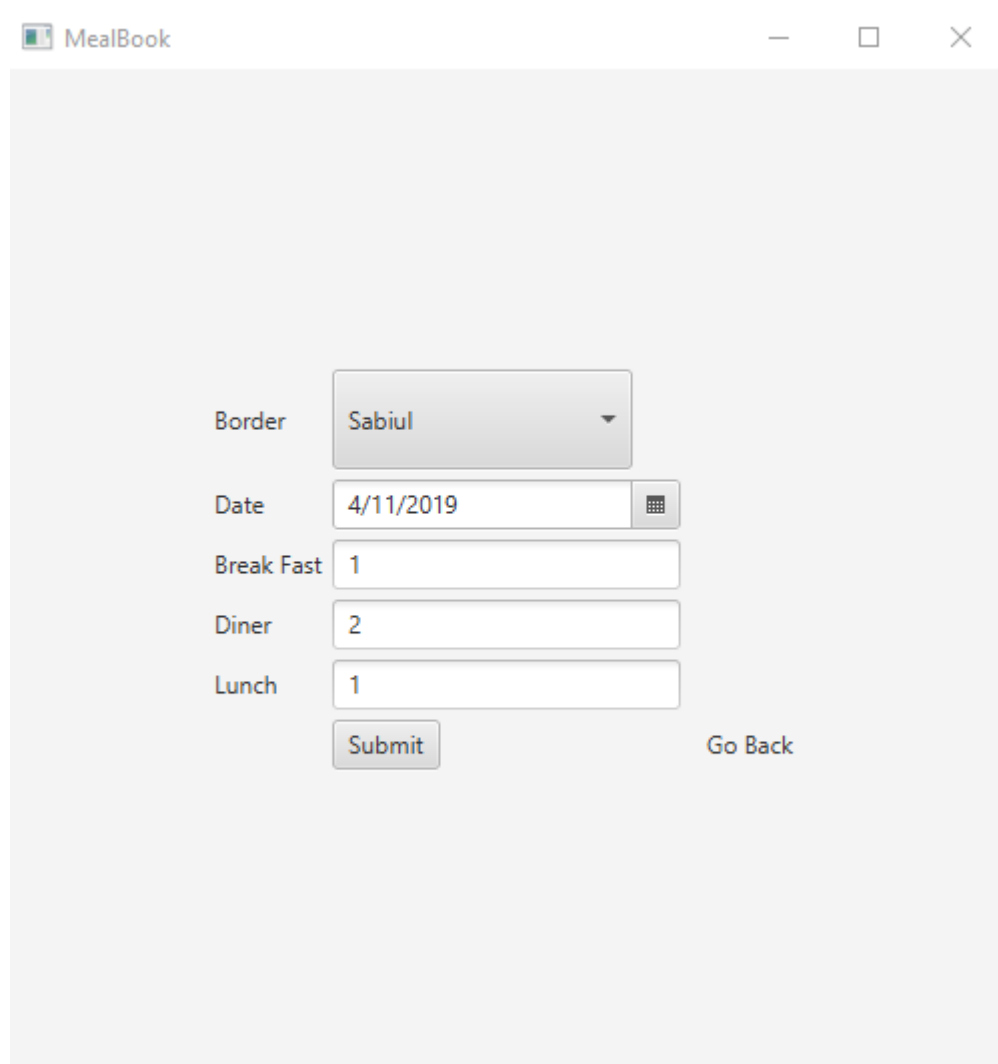
The screenshot shows a web application window titled "MealBook". The interface is a simple form for depositing money. It includes three input fields: "Border" with a dropdown menu showing "Momen", "Date" with the value "4/11/2019" and a calendar icon, and "Amount" with the value "500". Below the "Amount" field are two buttons: "Submit" and "Go Back".

Border	Momen	▼
Date	4/11/2019	📅
Amount	500	
Submit		Go Back

Image: Deposit UI

Adding Meal

The manager can add meal for each of the member according to date.



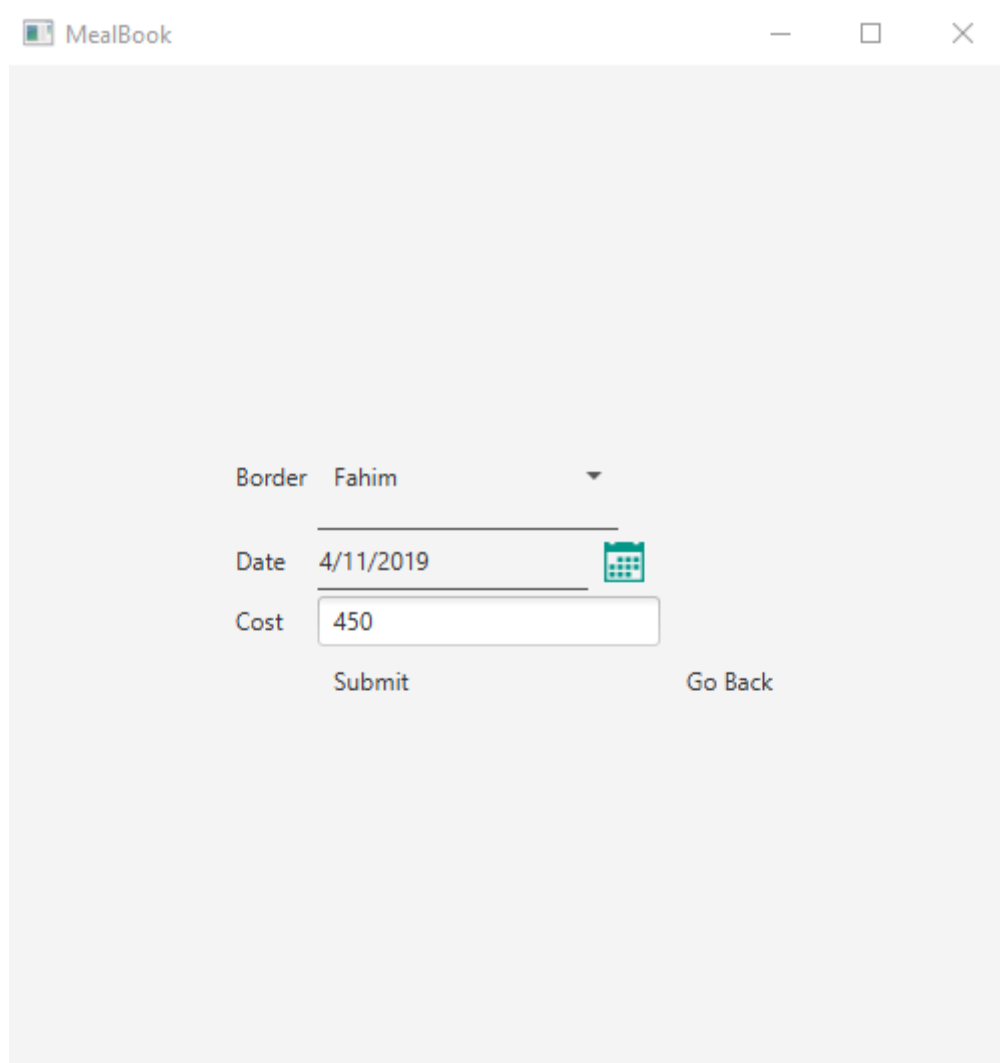
The image shows a screenshot of a web application window titled "MealBook". The window contains a form for adding a meal. The form has the following fields and controls:

- Border:** A dropdown menu with "Sabiul" selected.
- Date:** A text input field containing "4/11/2019" and a calendar icon to its right.
- Break Fast:** A text input field containing the number "1".
- Diner:** A text input field containing the number "2".
- Lunch:** A text input field containing the number "1".
- Submit:** A button located below the "Lunch" field.
- Go Back:** A text link located to the right of the "Submit" button.

Image: Meal UI

Adding Bazar

Manager can assign bazar to borders and add bazar cost according to date.



The image shows a screenshot of a web application window titled "MealBook". The window contains a form for adding a bazar. The form has three input fields: "Border" with the value "Fahim", "Date" with the value "4/11/2019", and "Cost" with the value "450". Below the "Cost" field are two buttons: "Submit" and "Go Back".

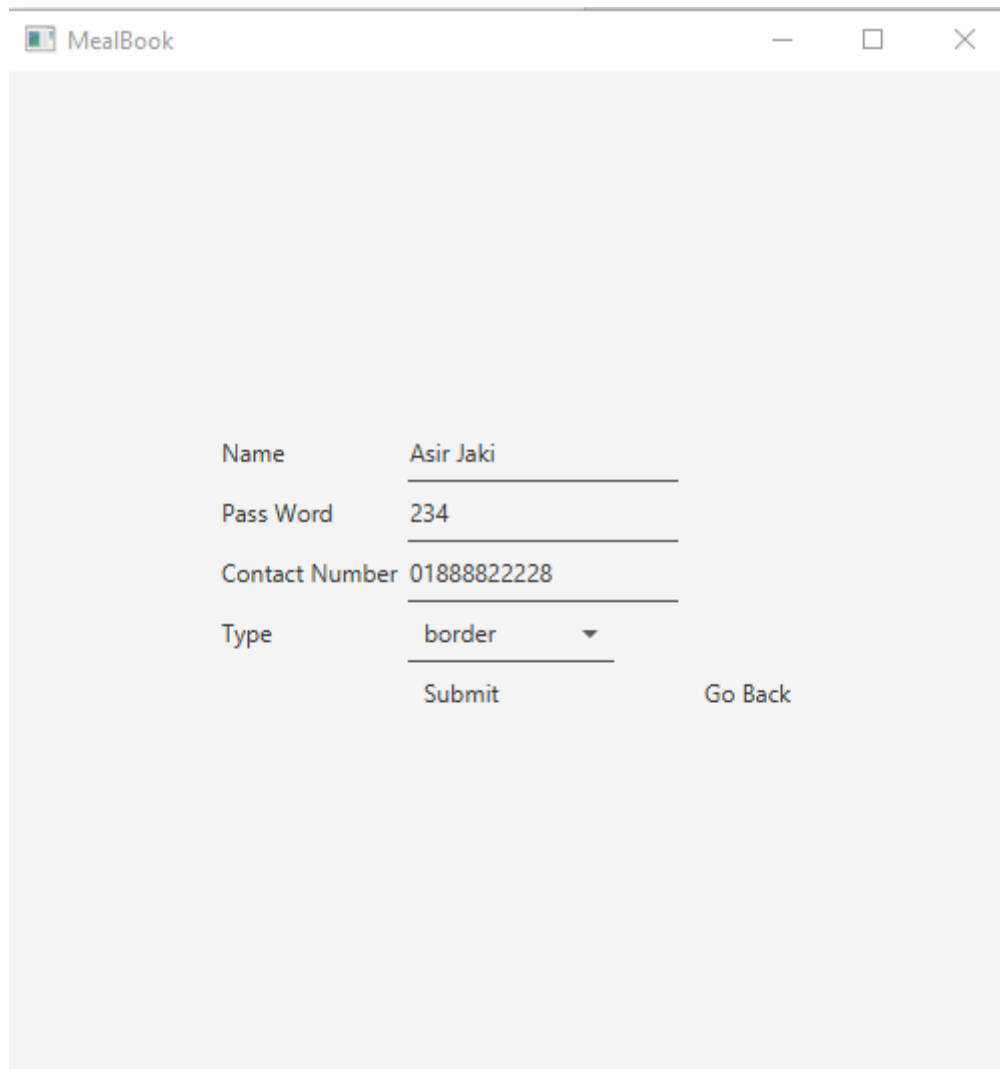
Border	Fahim
Date	4/11/2019
Cost	450

Submit Go Back

Image: Bazar UI

Adding new border

If a new border comes in the middle of the month, manager can also add him/her to the system.



The screenshot shows a web application window titled "MealBook". Inside the window, there is a form with the following fields and values:

Field	Value
Name	Asir Jaki
Pass Word	234
Contact Number	01888822228
Type	border

Below the form, there are two buttons: "Submit" and "Go Back".

Image: Border UI

Report

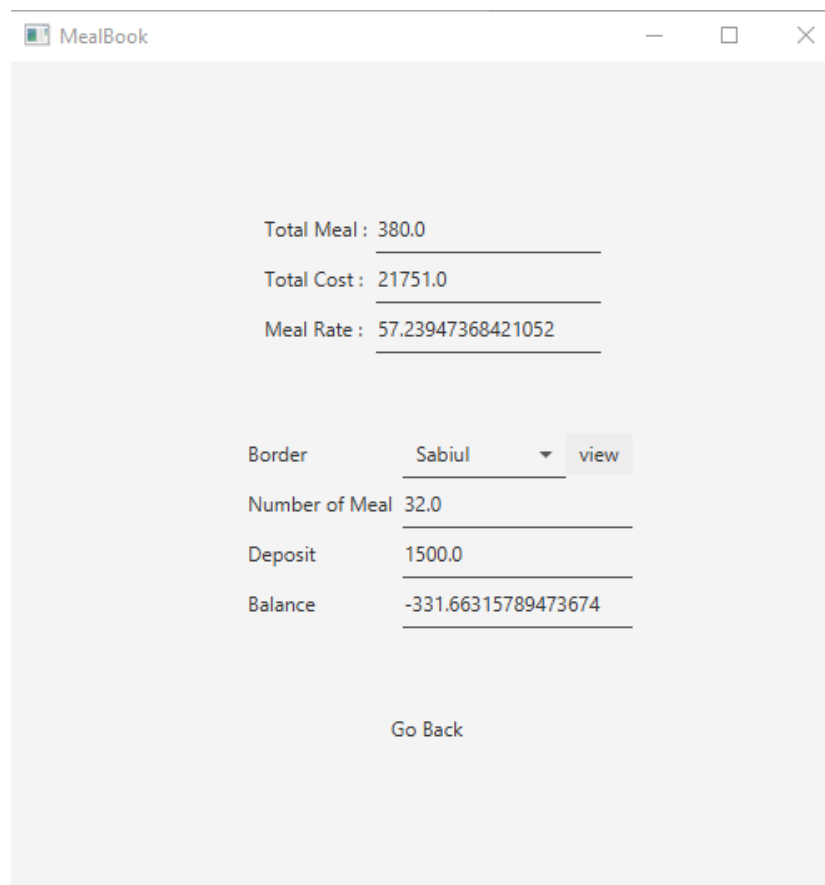
The main part of the job is to calculate the meal rate and collect money from the borders who are running short in balance. Also pay those who have extra money in their balance.

To calculate the meal rate total bazar cost is added and divide by the total number of meals of the month.

Meal Rate = Total Cost / Total Meal

Balance is calculated by multiplying total meal of that person and meal rate, and subtracting his deposit amount from it. A positive balance means the manager will pay the money to the border and if the balance is negative then the border will pay to the manager.

Balance = (Total meal per person * meal rate) – deposit



The screenshot shows a web application window titled "MealBook". It displays the following information:

Total Meal :	380.0
Total Cost :	21751.0
Meal Rate :	57.23947368421052

Border	Sabiul	view
Number of Meal	32.0	
Deposit	1500.0	
Balance	-331.66315789473674	

At the bottom, there is a "Go Back" button.

Image: Report UI

Database

There are 4 table in our database. User_Id from user table is the foreign key for all other table of the database.

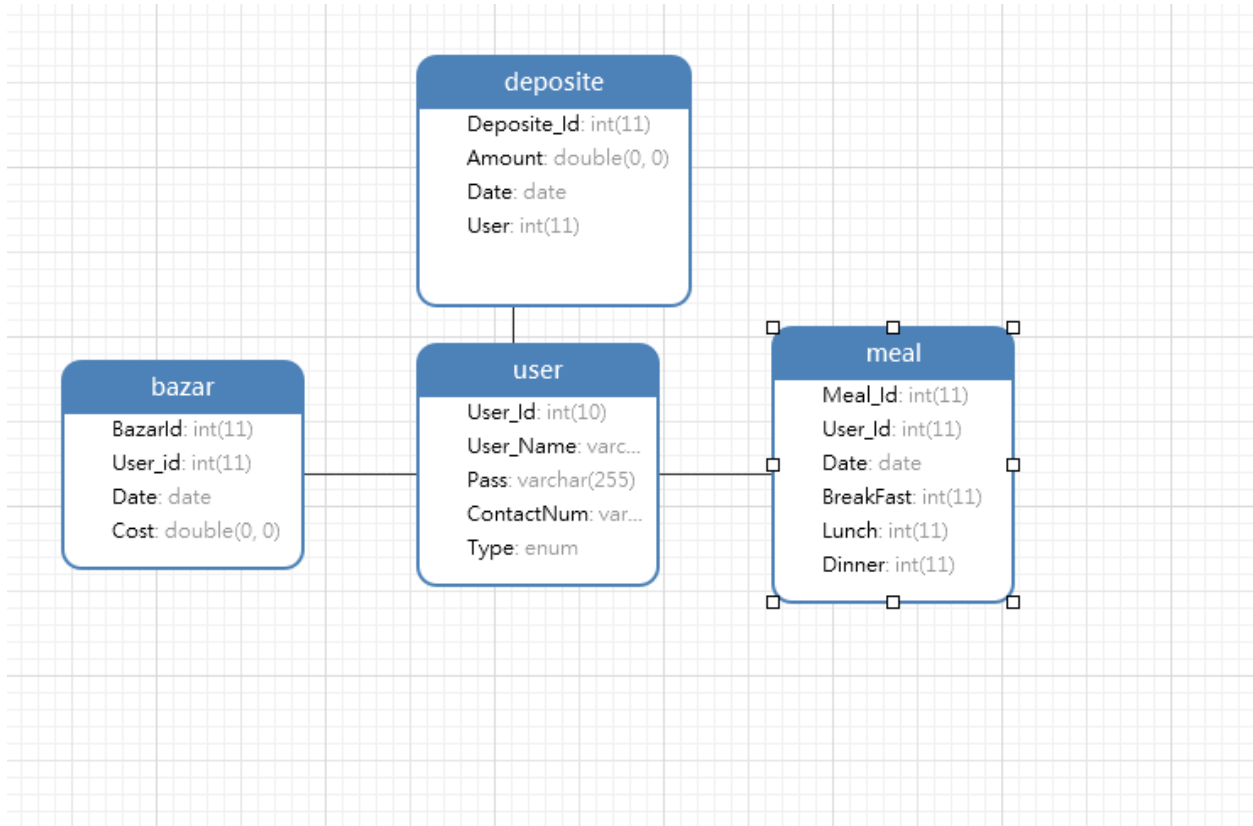


Image: Database diagram

Limitations

Like all other system, our system has some limitation too.

- ✚ No update and delete feature is given yet to the system.
- ✚ Border can't view or update any data
- ✚ Our system runs only on local server.

Future Plan

Due to lack of time, we could not finish our work on all the features that we intended to. But we are planning to add these features and overcome our limitations.

- ✚ Add update and delete feature
- ✚ Add feature like border can login to the system and can add his own meal and view his info.
- ✚ Hosting on a live server instead of local server.
- ✚ Work on look and field