CS-2003L

Database System Lab

Pizzia

My Pizza Day Maker!

Project Report By

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1.0 Project Description

1.1 Scope Statement

In the light of current advancement online services plays an crucial role to meet day to day need of humans. Current pandemic is the best example of how an online platform saves many business from bankruptcy and how it helps them to continue there services with accordings to the law.

We hope to demonstrate with our pizza application how these applications work and how important is for the student of database to better understand the intertaggling relationship of different entities.

1.2 Goal

1.2.1 Creating Functional Indentifiers

One of the initials we set to achieve is to equipt our application with functional tools this way we able to indentify the individuals customers and their needs.

Later down we also implemented the admin panel for the app, which is powerful addon to understand the little comflexity of the business using generate data points.

1.2.2 Drawing Dependency

Next important aspect, Is to draw dependencies between different tables and how each correlate with each other.

These relationship helps to application to be future proof and increase scalability

1.2.3 Explore Useful Business Parameters

An important aspect of any online application today is to provide necessary data to business. These data then used for the better understanding the customer need, business health financially and helps to understand how people reacting to our business.

1.3 Implementation

1.3.1 Constructing Web Structure

As discuss above initial of a web application is its ability to indentify individual users. We constructed two types of user.

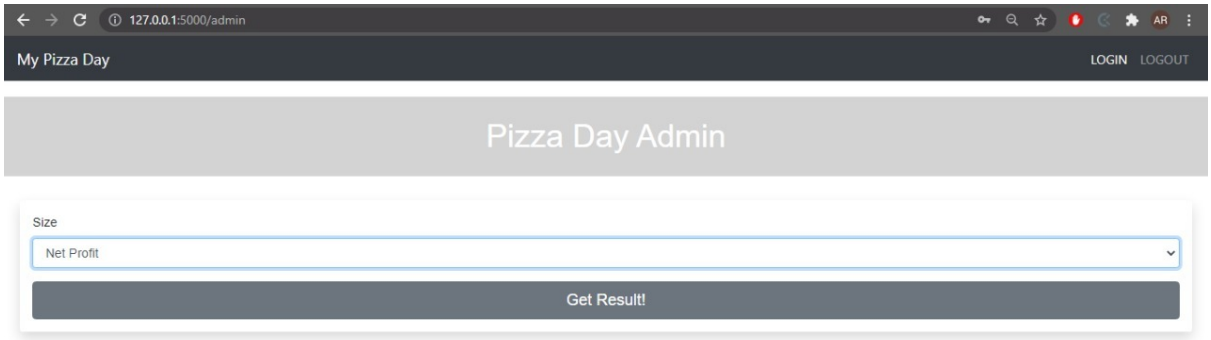
- Customer
- Admin

1.3.1.1 Customer

Any individual is consider a customer when he/she shopped atleast one time from the appilication. Whereas all users given an opportunity to create a account with our app. This way in future we draw correlation between users and customers.

1.3.1.2 Admin

Admin as a separate table and its entry remain non accessible for the public. This user can perform analysis by calling any of the pre determined statistics.



1.3.2 ERD & Normalization Of Records

First we draw what we think how a typical order records looks like then we used bottomup approach to construct different tables and relationship between whose tables.

Our basic table layout can be divided into two parts the core_tables and the accounts_table

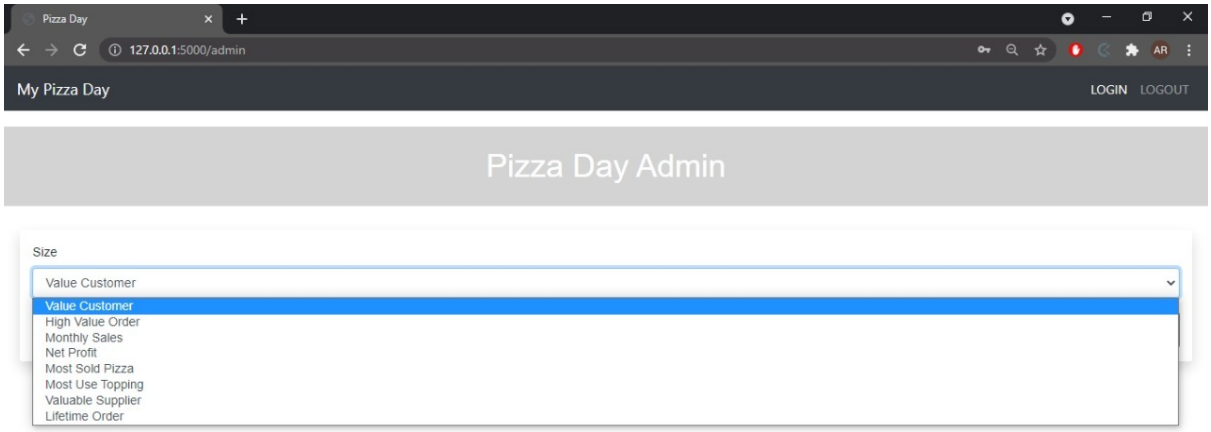
Core_tables consist of 7 tables to perform complete transaction from filling of the menu to the processing of the order from the customer.

Account_table on the other hand consist of 2 tables one to for the registration of the customer (general user) and next is for the admin (can be only register from backend).

1.3.3 Implementation Of Business Statistics

Next we created 8 pre defined analysis tool that extract live result from the multiple tables.

These are as follow



2.0 Tools and Technologies

As working in the team, we are be using our favorite editors but to maintain consistency over the project we planned to manage our codebase using a private GitHub repository.

2.1 Tools

- Editor/Ide: Atom, Subline, VIM and Visual Studio
- Compiler: Python 3.8
- Terminals: Windows CMD, MINGGW BASH, Linus Terminal
- Language: Python, Psql, Jinja2, HTML, CSS
- Libraries: Flask, SqlAlchemy
- Extras: Github, MySql WorkBench and others.

2.2 Work Breakdown Structure

2.2.1 Research and Resouce (1st Week)

- Search Real World Pizza Order Sheets
- Understand What Tools to Used
- Compare between Django and Flask
- Understand complexity between Psql and MySql

2.2.2 Implementation and Prototype (2nd Week)

- Create Functional Indentifiers
- Layout tables and their fields
- Draw first draft of the Relationship
- Test and Debug Using MySql Workbench

2.2.3 Integration and Development (3rd Week)

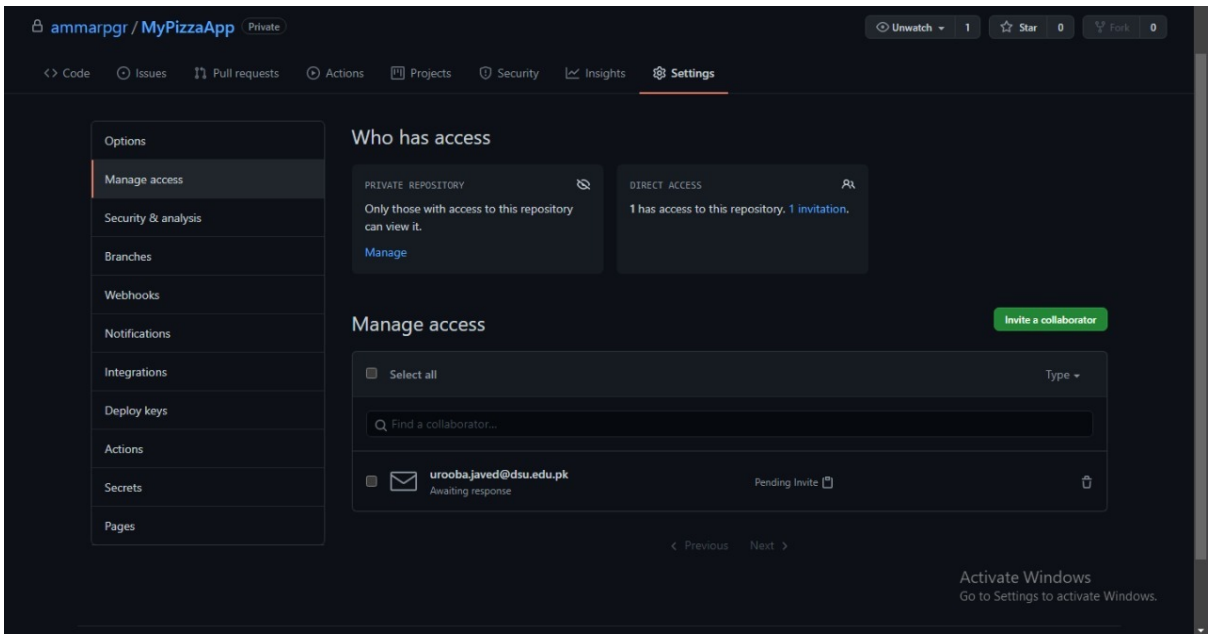
- Reevaluate Relationships
- Construction Business Analysis Queries
- Test & Debug Querries (MySql WorkBench)
- Create Online Database
- Search and Install Dependencies
- Transfer MySql to Psql

2.2.4 Development and Testing (4th Week)

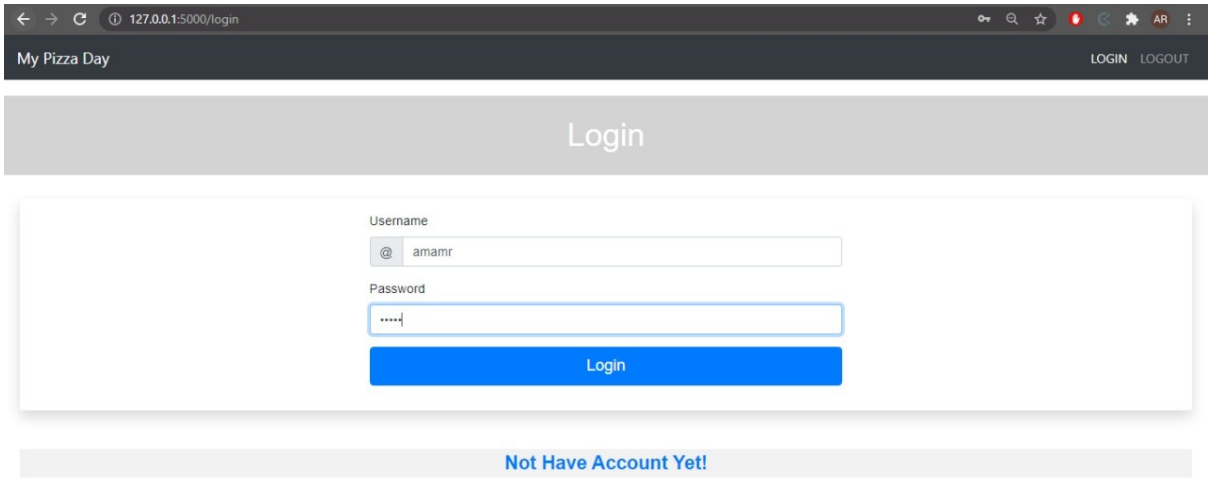
- Integrated Psql to Flask
- Testing and Debugging
- Create required html templates
- Design (CSS) and Testing

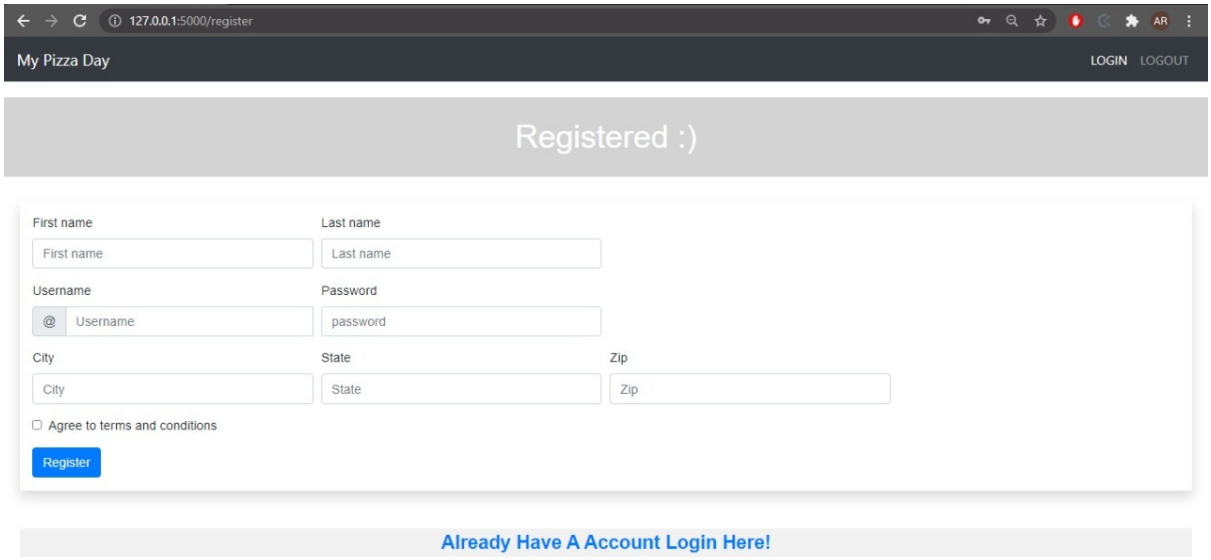
3.0 Source Code

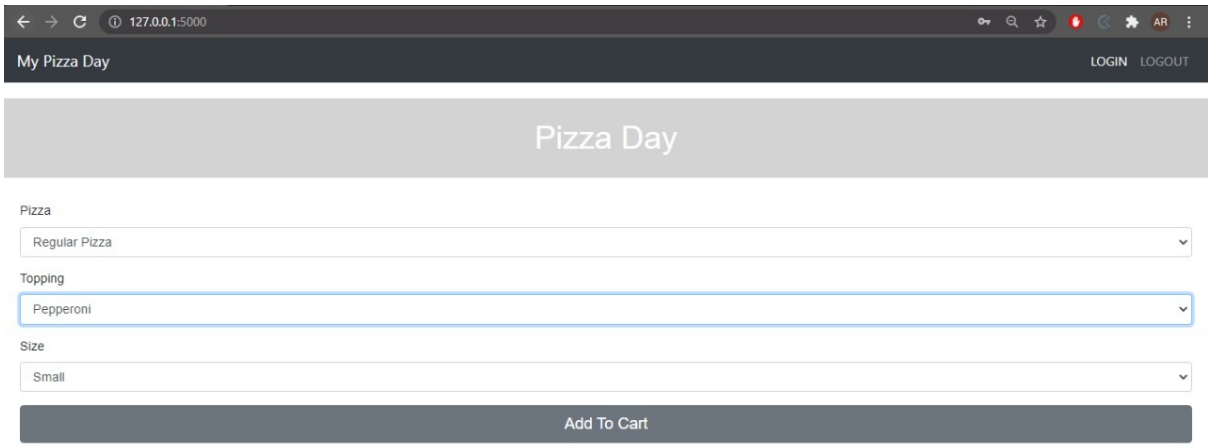
Github: https://github.com/ammarpgr/MyPizzaApp

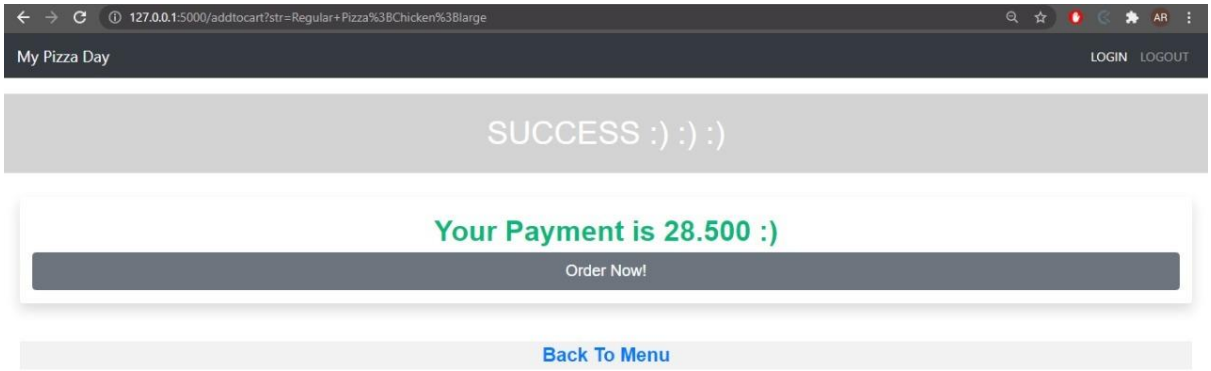


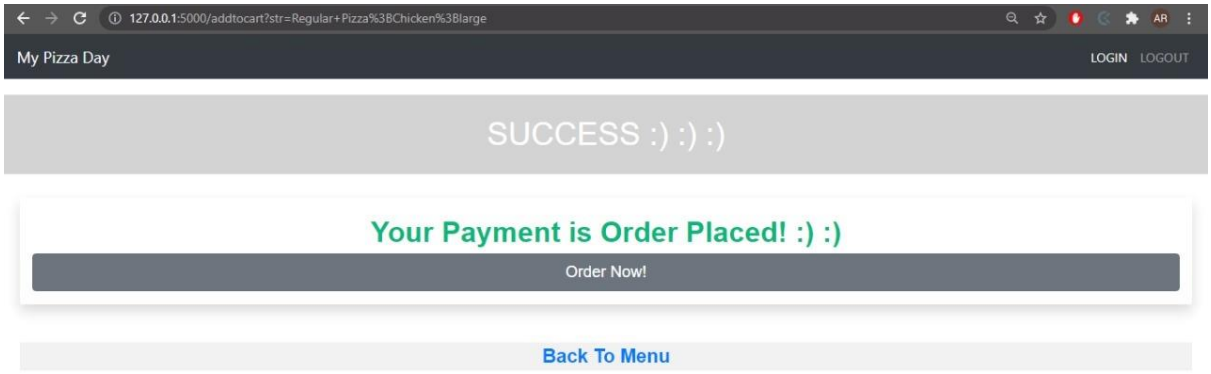
4.0 ScreenShot

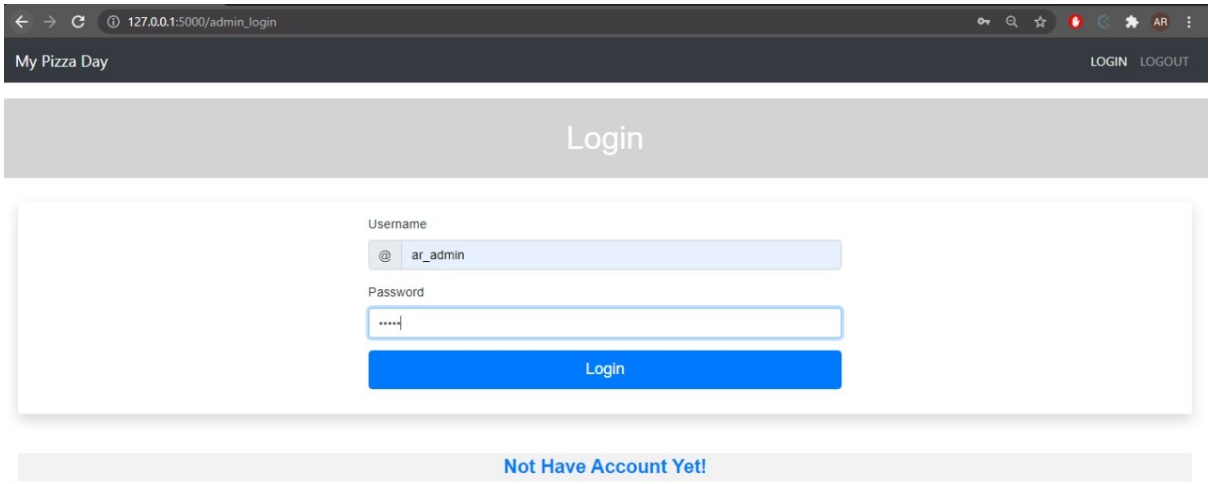


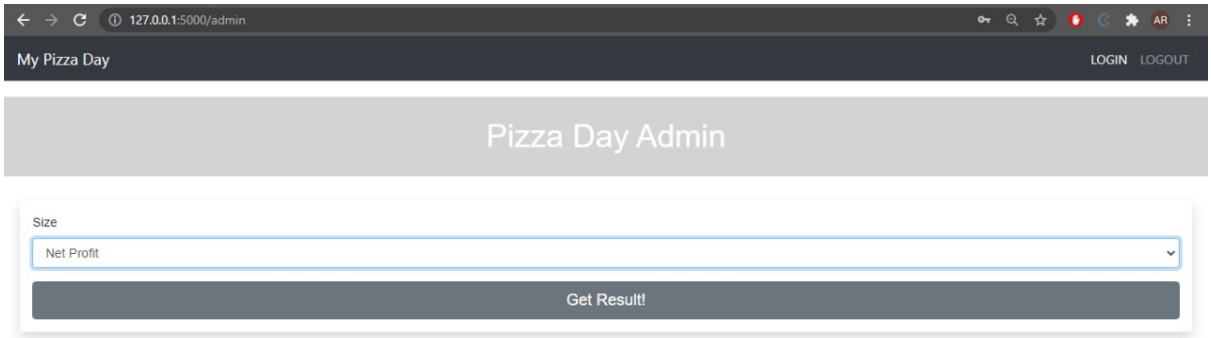

127.0.0.1:5000/register
My Pizza Day
LOGIN
LOGOUT
Registered :)
First name
Last name
First name
Last name
Username
Password
@
Username
password
City
State
Zip
City
State
Zip
Agree to terms and conditions
Register
Already Have A Account Login Here!

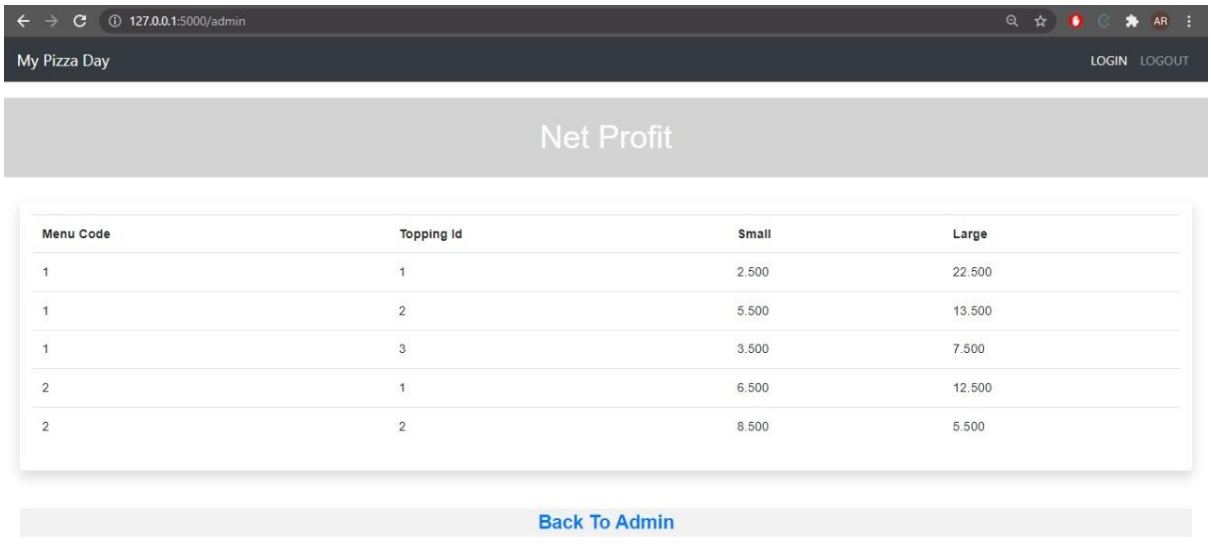

127.0.0.1:5000
My Pizza Day
LOGIN
LOGOUT
Pizza Day
Pizza
Regular Pizza
Topping
Pepperoni
Size
Small
Add To Cart


127.0.0.1:5000/addtocart?str=Regular+Pizza%3BChicken%3Blarge
My Pizza Day
LOGIN LOGOUT
SUCCESS :) :) :)
Your Payment is 28.500 :)
Order Now!
Back To Menu


127.0.0.1:5000/addtocart?str=Regular+Pizza%3BChicken%3Blarge
My Pizza Day
LOGIN LOGOUT
SUCCESS :) :) :)
Your Payment is Order Placed! :) :)
Order Now!
Back To Menu


127.0.0.1:5000/admin_login
My Pizza Day
LOGIN LOGOUT
Login
Username
@ ar_admin
Password
Login
Not Have Account Yet!


127.0.0.1:5000/admin
My Pizza Day
LOGIN LOGOUT
Pizza Day Admin
Size
Net Profit
Get Result!


127.0.0.1:5000/admin
My Pizza Day
LOGIN LOGOUT
Net Profit
Menu Code
Topping Id
Small
Large
1 1 2.500 22.500
1 2 5.500 13.500
1 3 3.500 7.500
2 1 6.500 12.500
2 2 8.500 5.500
Back To Admin