

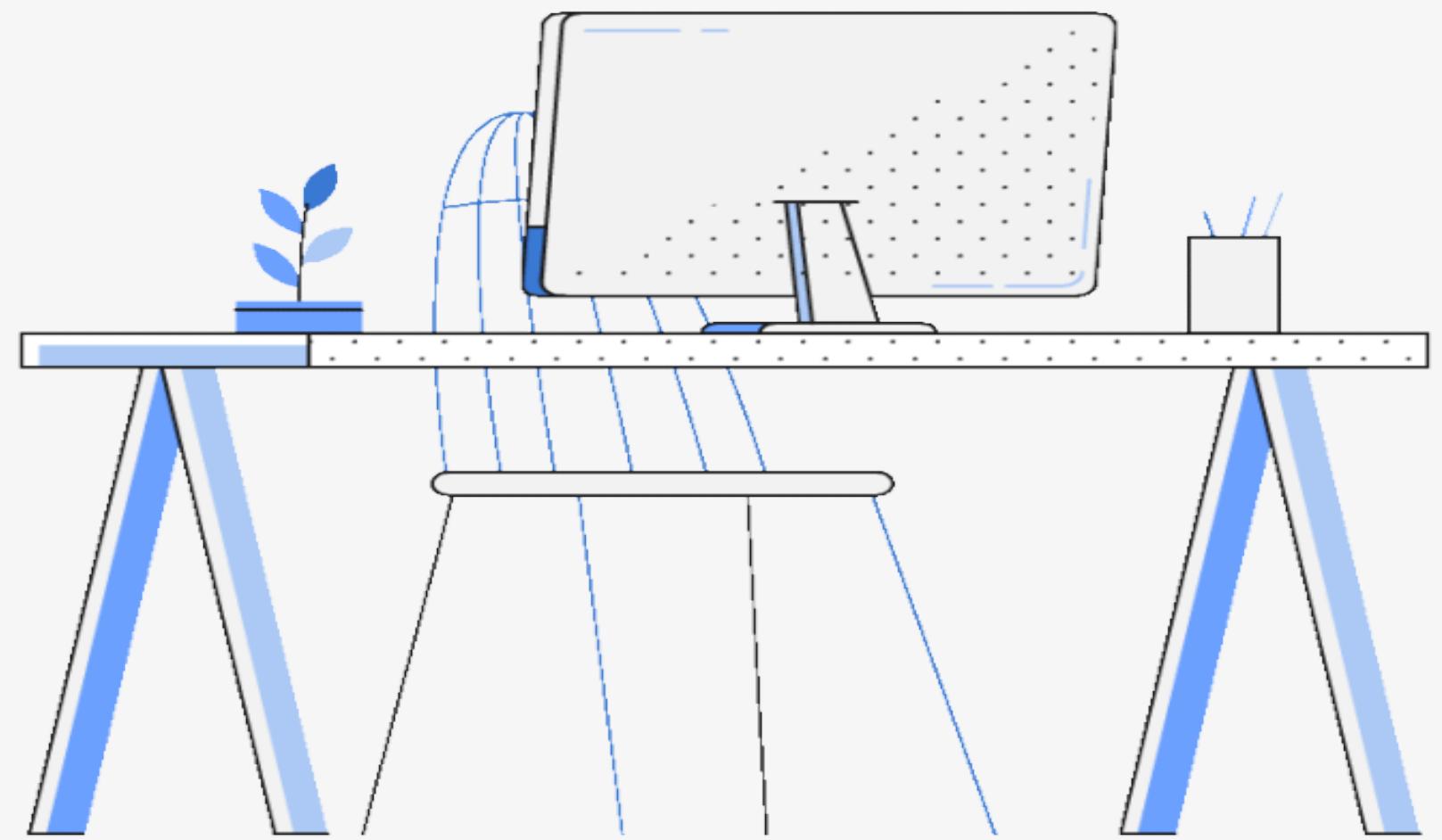


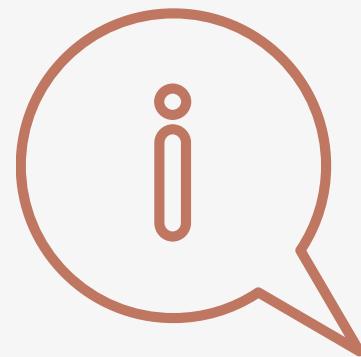
MESS AUTOMATION DESKTOP APP

SRM AP C² Hackathon 2022

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ABOUT US

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PROBLEM STATEMENT

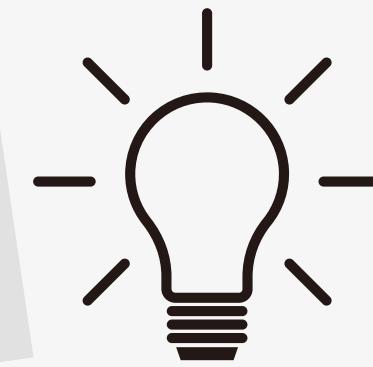


Due to increase in number of students at universities in recent years, it is a huge problem for mess staff to differentiate between a Day scholar/Non-Campus person and hosteler, there were several methods implemented but none of them were properly successfully.

With increasing students in universities it's tough to avoid the long queues in mess and also it's not possible for a hosteler to carry his/her mess cards & ID cards with him/her always.

Mention a way to avoid this major issue for both hostelers and mess staffs?

SOLUTION



Using a Computer-Based Desktop App to verify the credentials of students while taking food in mess will lead in reducing the crowds and ease up the work for mess-staff as it is one of the objectives from our problem statement.

It will be easy to differentiate between hostelers and day scholars as hostelers data will be already uploaded in the system.

ADVANTAGES OF USING A COMPUTER-BASED DESKTOP APP

LONG LINES

A fast software developed in c++ can help clear long lines in a very efficient and fast manner.

TRICKSTERS

No one can cheat a computer by developing a software that makes sure that there's no chance for tricksters to eat without paying.

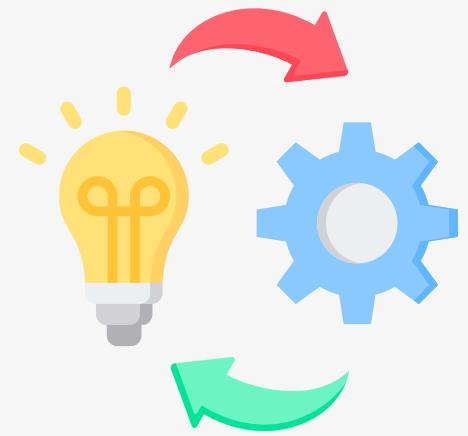
ENVIRONMENT

Automating the mess system helps in a good environment in the mess by reducing the huge crowd faster and negotiating the chance of cheating.

STUDENT-FRIENDLY

With busy schedules for students these days, many students forget their mess-cards and ID-cards, a good software can negotiate this problem by ensuring the credentials of the student including name and photo.

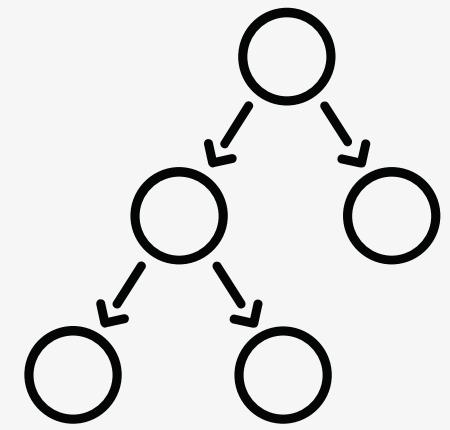




IMPLEMENTATION



Developing a Desktop-App, developed using a fast language like C++, database like SQL and Machine Learning techniques to verify face-id, will be a great and efficient approach towards the problem stated.



ALGORITHM

- 1 Input Roll Number
- 2 Check if roll number is correct, and is present in database.
- 3 If roll number is present , print name and output photo of student
else
print application number not found
- 4 Display if student has access to the mess, show green,
else
show red.
- 5 Display the respective meal according to the time
- 6 If student didn't eat mess select option and click on confirm to access the mess.
- 7 If student didn't eat mess select option and click on confirm to access the mess.
- 8 Exit

DEMO

- 1.By your face ID and just entering registration number will be updated in the machine.
- 2.You will be matched with your name and image automatically which will reduce the time and long line in queues with less rush.
- 3.At last you will receive slip by which you can get your meal, free off Mess Card/ID Card carrying tensions.

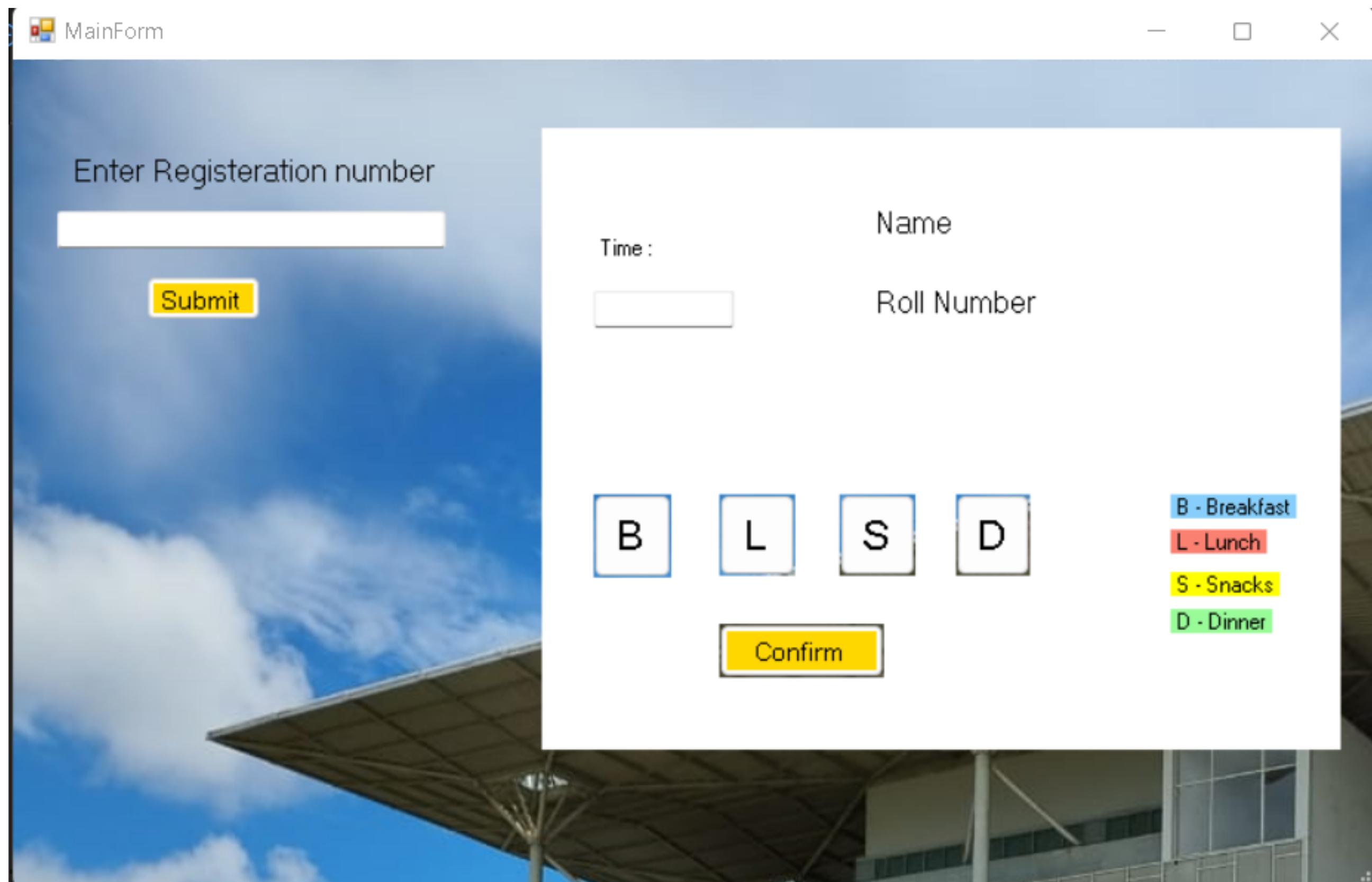
REAL LIFE USE

1. Mostly for Universities, schools with hostels.
2. Can be used in hospitals for patient's hourly meal according to his/her condition.
3. In banks to reduce the rush by dividing the work load, it can be done by just little modifications from our prototype.

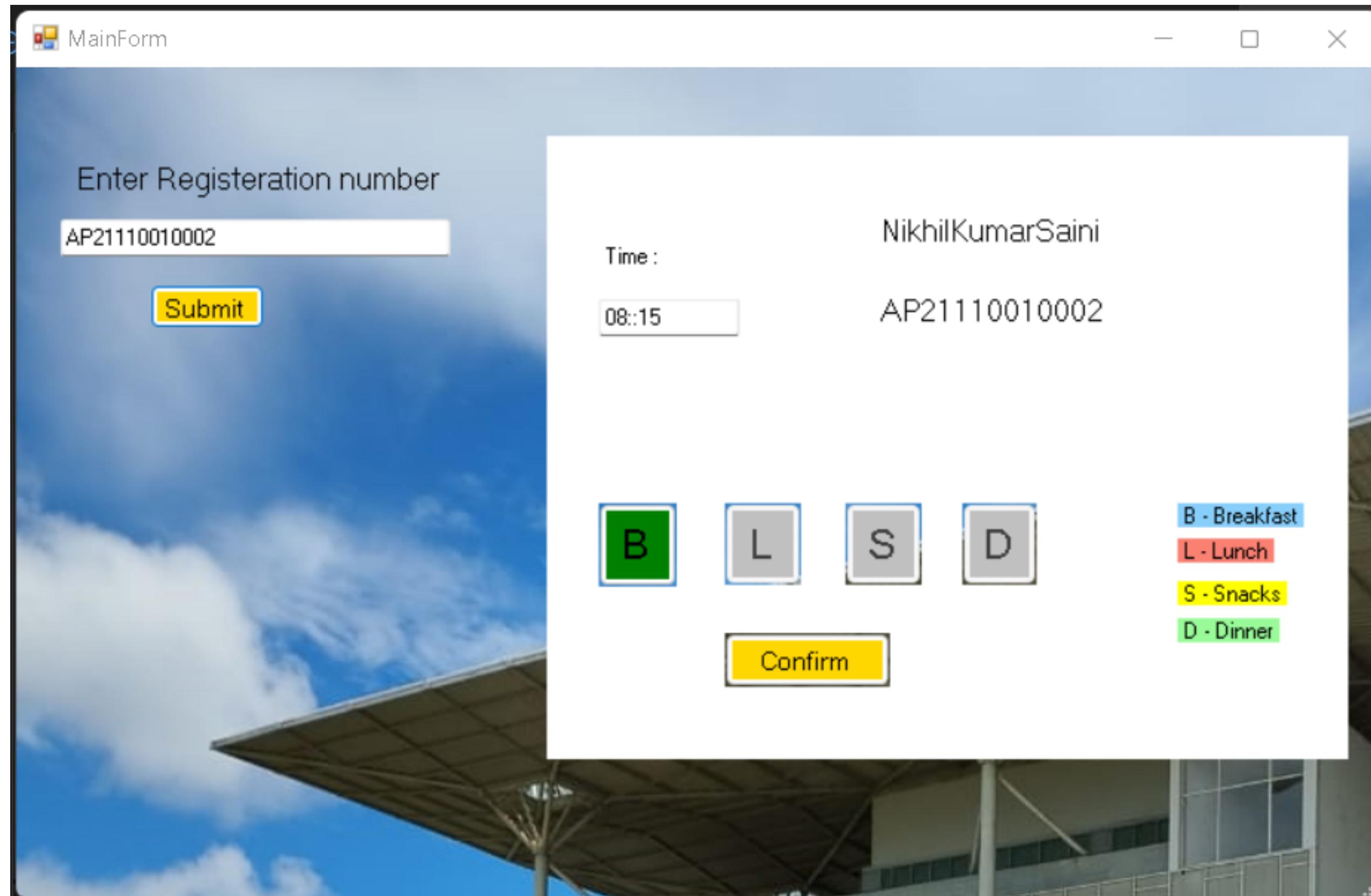
Any department with huge rush can avail our prototype to reduce work load and the options can be modified according to their work load.



INPUT



Output





CONTACT US

 SRM University AP

 <https://chat.whatsapp.com/Bph22rjU4YLJRTknRjf4ke>

**THANK
YOU**



We hope you like our project.