# 

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A MINI PROJECT REPORT ON**

**“PROJECT TITLE”**

*Submitted in the partial fulfillment of the requirements in the 3rd semester of*

**BACHELOR OF ENGINEERING**

**IN**

**INFORMATION SCIENCE AND ENGINEERING**

**FOR**

**COURSE NAME: MINI PROJECT**

**COURSE CODE: 20ISE391A**

By

**STUDENT NAME 1 - USN**

**STUDENT NAME 2 - USN**

***Under the guidance of***

**GUIDE NAME**

Designation

****

**CERTIFICATE**

Certified that the project work entitled “Auto-Attendance System Using Face Recognition” carried out by Mr. Ashwin N, bearing USN 1NH19IS020, a bonafide student of III semester in partial fulfillment for the award of Bachelor of Engineering in Information Science & Engineering of New Horizon College of Engineering, an autonomous institute affiliated to the Visvesvaraya Technological University, Belagavi during the year 2021-22. It is certified that all corrections / suggestions indicated for Internal Assessment have been incorporated. The project report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

**Name & Signature of Guide Name & Signature of HOD**

Mrs. Karthiyayini Dr. Anandhi R J

**Examiners :**

**Name Signature**

1. …………………………………………………. ………………………………..
2. …………………………………………………… …………………………………

**ACKNOWLEDGEMENT**

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**Student Name USN**

**Student Name USN**

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**Abstract**

Minimum 150- 200 words

# CHAPTER 1

# **INTRODUCTION**

## 1.1 Introduction

## 1.2 Motivation of the project

## 1.3 Problem Definition

# CHAPTER 2

# **LITERATURE SURVEY**

### 2.1 Existing System

# CHAPTER 3

# **SYSTEM REQUIREMENTS SPECIFICATION**

### 3.1 Hardware Requirements

The following are needed to efficiently use the application.

Processor - Intel Core i3 and above

Speed - 2.5 GHz

RAM - 8 GB (min)

Hard Disk - 50 GB (min)

### 3.2 Software Requirements

Software requirements define software resource fundamentals that need to be installed on a workstation to provide optimum working of a software. The following are required for optimal development and usage of the application.

Operating System - Windows 7 and above

Programming Language - Python 3.7

Compiler - Visual Studio, IDLE, Anaconda, Spyder

# CHAPTER 4

# **SYSTEM DESIGN**

## 4.1 System Architecture

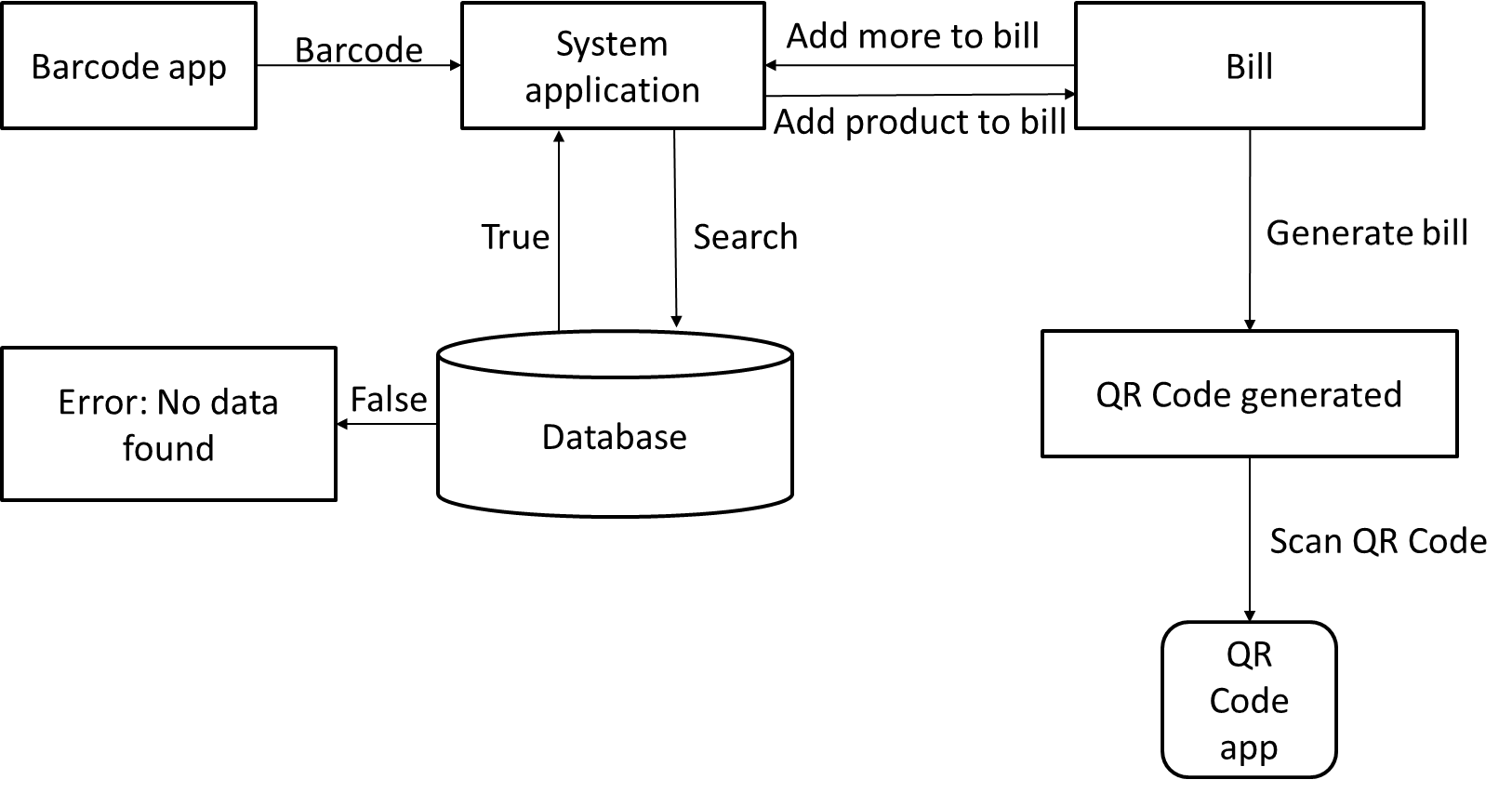


Fig 4.1: System architecture

## 4.2 Flowchart of Proposed System

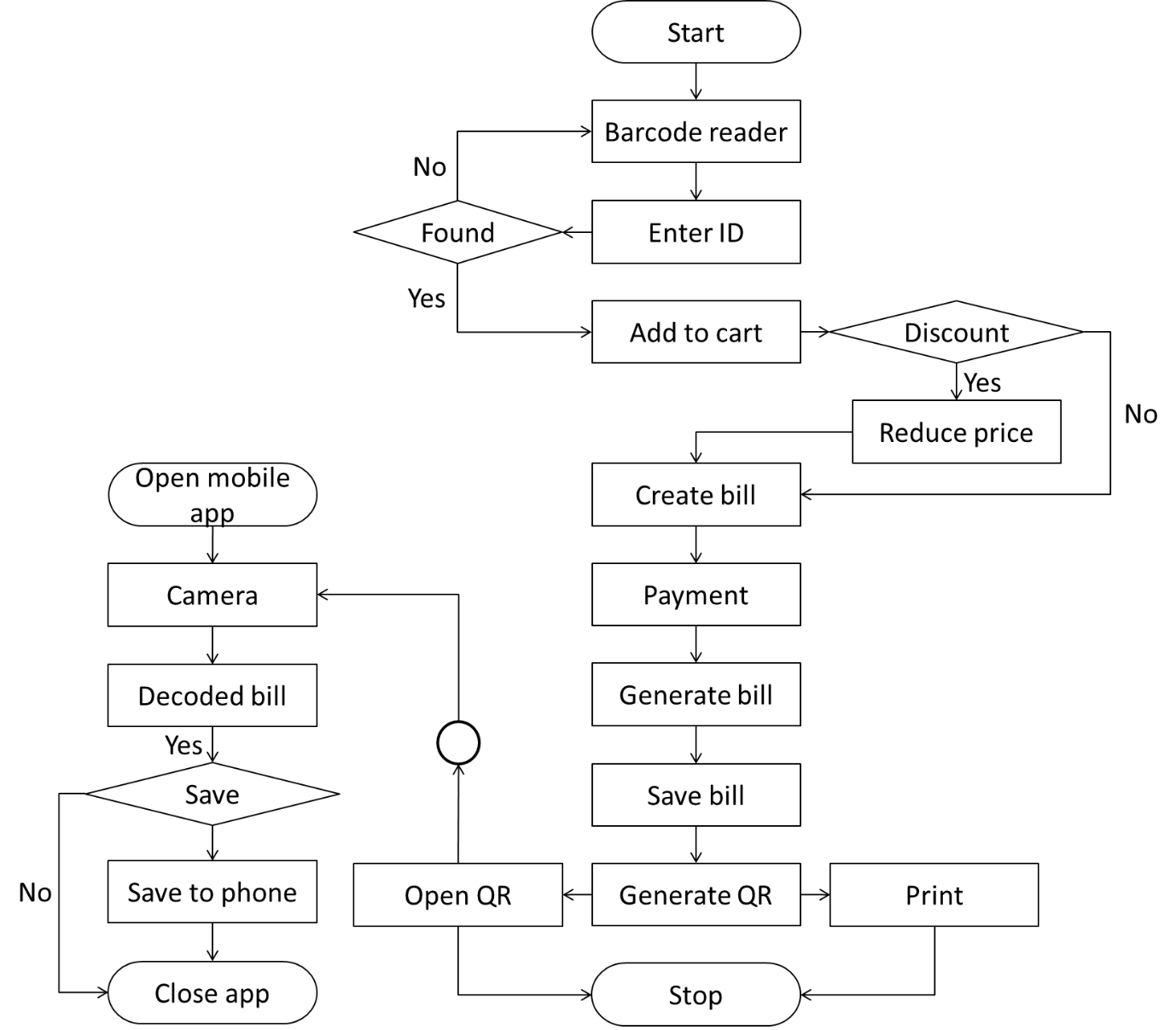


Fig 4.2: Flowchart of proposed system

# CHAPTER 5

# **IMPLEMENTATION**

## 5.1 Code Implementation

## CHAPTER 6

# **EXPERIMENTAL RESULTS**

## 6.1 Outcome of Proposed System

6.1.1 Select a particular latitude and longitude:

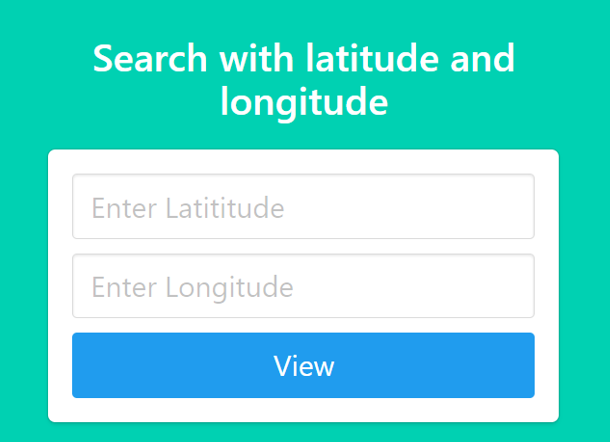


Fig 6.1: Selecting a particular latitude and longitude

Slices the original data present in the excel sheet and takes into consideration of only those cases(crimes) which occurred at a particular latitude and longitude that is specified by the user in the options page.

Once the View button is clicked the sliced data is shown to the user in the form of a table in the next(details) page.

# 

Fig 6.2: Sliced data

6.1.2 Enter a time limit and a particular crime:

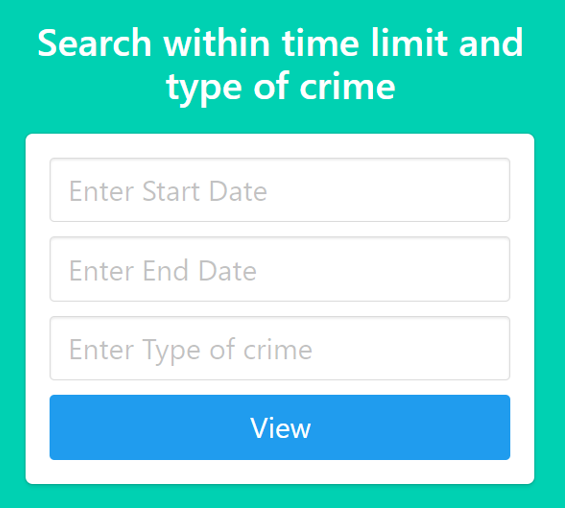


Fig 6.3: Entering time limit and crime type

Slices the original data present in the excel sheet and takes into consideration of only those cases(crimes) which happened/took place within the specified time range and belongs to a particular type of crime which are specified by the user in the options page.

This data is then organised by a clustering algorithm, which returns us a plot where x is longitude and y is latitude and forms three clusters based on the density of crimes which took place in a particular region. Each cluster has a unique colour.

Once the View button is clicked a window pop’s up and shows a plot which resembles the image shown below.

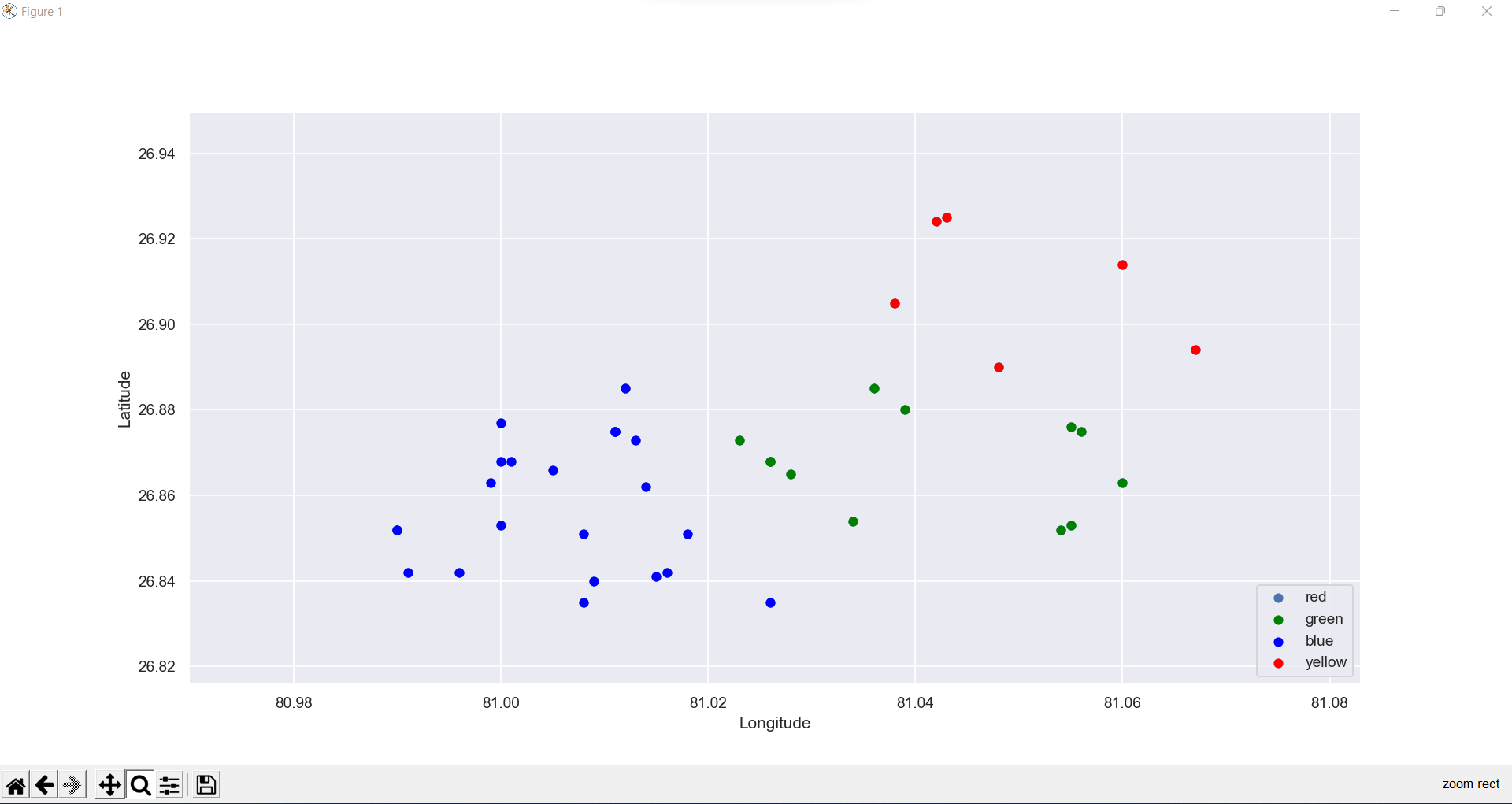


Fig 6.4: Clusters formed

# CHAPTER 7

# **CONCLUSION AND FUTURE ENHANCEMENT**

## 7.1 Conclusion

This project was about improving the existing billing system by making it digitalized. A better way of billing system was implemented.

## 7.2 Future Enhancement

This application has much potential for future enhancement.

# **REFERENCES**

1 Research Papers

2 Web link

3 Books