****

**KENDRIYA VIDYALAYA NO 1 ISHAPORE**

SESSION: - 2021-2022

Computer Science

PROJECT SYNPOSIS

ON

GROCERY SHOP

Submitted by- Submitted to-

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XII C

** KENDRIYA VIDYALAYA NO 1**

**CERTIFICATE**

This is to certify that **Avirup Paul , Sarthak Biswas ,Udayan Majumder** student of class 12 C Roll no:**10,12,13** has successfully completed the Grocery Shop project under the guidance of **Mr.Deepak Gupta** during the year 2021-22 in the partial fulfillment of practical examination conducted by AISSCE, New Delhi.

**Signature of external examiner Signature of subject teacher**

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**ACKNOWLEDGEMENT**

I would like to express my greatest appreciation to the all individuals who have helped and supported me throughout the project. I am thankful to my computer science teacher **Mr.Deepak Gupta** for his ongoing support during the project, from initial advice, and which led to the final report of this project. I wish to express my sincere gratitude thanks to the Principal, **Mr. Bidyut Bikash Mahato** for encouragement and all the facilities that she has provided for me this project.

A special acknowledgement goes to my classmates who helped me in completing the project by exchanging interesting ideas and sharing their experience.

I wish to thank my parents as well for their undivided support and interest who inspired me and encouraged me to go my own way, without whom I would be unable to complete my project.

At the end, I want to thank my friends who displayed appreciation to my work and motivated me to continue my work.

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**INTRODUCTION**

This software is used to maintain the shop customer detail, product, details, worker detail maintain the shop in updated and maintain records of in and out data of shop.

**OBJECTIVE**

The objective of this project is to let the students apply the programming knowledge into a real- world situation/problem and exposed the students how programming skills helps in developing a good software.

1. Write programs utilizing modern software tools.
2. Apply object-oriented programming principles effectively when developing small to medium sized projects.
3. Write effective procedural code to solve small to medium sized problems.
4. Students will demonstrate a breadth of knowledge in computer science, as exemplified in the areas of systems, theory and software development.
5. Students will demonstrate ability to conduct research or applied Computer Science project, requiring writing and presentation skills which exemplify scholarly style in computer science.

**HARDWARE REQUIREMENTS**

* OPERATING SYSTEM : WINDOWS 10 AND ABOVE
* PROCESSOR : PENTIUM(ANY) OR AMD
* RAM : 512MB+
* Hard disk : SATA 40 GB OR ABOVE
* CD/DVD r/w multi drive combo : (If back up required)
* FLOPPY DRIVE 1.44 MB : (If Backup required)
* MONITOR 14.1 or 15 -17 inch
* Key board and mouse
* Printer : (If print is required – [Hard copy])

**SOFTWARE REQUIREMENTS**

* Python
* My Sql
* My Sql connector
* Visual Studio Code

*Modules name*

* Mysql.connector-for establishing a connection between mysql database and python.
* Pretty table- we use this module for displaying a data in a better readable format format.

**WORKING DESCRIPTION**

This program consists of FIVE options as follows:

* Add Data: To add data of customer, product or worker.
* Display Data: To display all the details of the data.
* Search Data: To search about any info about customer, product or worker.
* Delete Data: To delete any data
* Exit : It will exit the program

**FLOW CHART**

Python-MySQL connecting

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ASK USER TO ENTER CHOICE

------------------------------------------------------------

ADD DATA



* Add a customer
* Add a product
* Add a worker

DISPLAY DATA

* Customer
* Product
* Worker

SEARCH DATA

* Customer
* Product
* Worker

DELETE

EXIT



* Customer
* Product
* Worker

Your need will be fulfilled by python by Interfacing with MySQL

**LIMITATION AND FUTURE SCOPE**

**Limitations:**

1. It is a CLI (Command Line Interface) based application.

People prefer GUI Apps more than CLI apps

2. The algorithms used for maintaining the data cannot be helpful if used in a big workshop.

3. Cloud database have good scope over local for managing huge data as they provide better functionality.

**Future Scope:**

1. This can a good example for beginners trying to get more into computer science as a learning project as this uses some great modules.

2. In future we can implement this whole architecture of this program in a graphical user interface (GUI) which is mostly preferred by people nowadays

3. Just because it’s a CLI app this doesn't use more processing power and memory so it may be helpful for those who don't have a powerful computer.

**BIBLIOGRAPHY**

Following websites links have been used in the completion of this project

File: -

* [www.slideshare.net](http://www.slideshare.net)
* <https://pythonworld.in>
* <https://cbsetoday.com>

**THANK YOU!**