

About this document

The attached document below is a proper user-guide and manual for Gadget Nepal Information Systems. Gadget Nepal Information System is an inventory management system for different kinds of electronic gadgets. Gadgets Nepal Information System has a set of different functionalities that can be implemented by the user. The manual for operating the software is attached below.

Minimum System Requirements

Processor: Intel Pentium 4

RAM: 512mb

OS: Windows XP/Vista/7/8/8.1/10

System environment: Java Runtime Environment (JRE)

Process Overview

The software is capable of executing multiple processes and functions. The system being an inventory management system accept details of an item from the user for the verification and inspection of item details for adding the record into the inventory. The system can export the details of gadgets from the inventory to a .txt/.csv file format as a data backup or data store or import those files from the device. The system also provides functionality for searching items on the basis of price.

The program is capable of doing the functions listed below:

- Adding records to the table
- Searching records by price
- Export pre-existing details of the table to CSV file
- Importing table records from CSV file

Adding records to the table

For adding details or records into the table, the software provides a very simple and interactive user interface so that the user can add records to the table without any complications.

Procedures for adding records to the table

For adding records or item details into the table, all the provided text fields must be filled up with valid data. Mainly, text field for entering product ID and price must contain only numeric datatype. After entering valid details, add button can be clicked to add the records to the table. In case entered data for adding details is incorrect, there is an additional button to clear all the text fields.

The screenshot shows a dashboard with a 'Total Items' box, an 'Event' label, a date '1 Jan 2020', and a '+' button. Below these is the 'Addition panel' which contains input fields for 'Product ID', 'Price', 'Product Name', and a 'Category' dropdown menu. There are also radio buttons for 'Range' with options 'Low', 'Mid', and 'High'. To the right of the input fields are two buttons: 'Add' and 'Clear'.

Figure 1: Addition panel

The screenshot shows the 'Addition panel' with the following data entered: 'Product ID' is '1', 'Price' is '120000', 'Product Name' is 'Acer Nitro 5', and 'Category' is 'Laptops'. The 'Range' radio buttons are set to 'Mid'. The 'Add' and 'Clear' buttons are still present.

Figure 2: Entering details to add

Product ID	Category	Product Name	Range	Price
1	Laptops	Acer Nitro 5	medium	120000

Figure 3: Details being added on table

Searching records by price

The software has a feature provided where user can find the required record on the basis of price of the item. There is a separate tab in the UI for the user to search the required details using price.

Procedures for searching records by price

In order to search records pre-stored in the table, a text field is placed in search tab of the program which is only capable of taking numeric datatype as its input. Valid price of an item is entered by the user and the entered data is then processed internally by the system to generate the required record and display it back to the user.

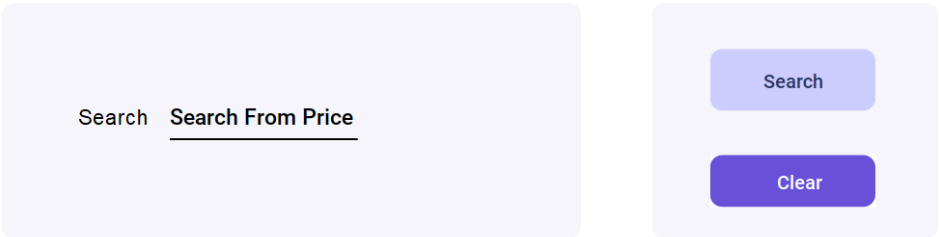


Figure 4: Price search GUI

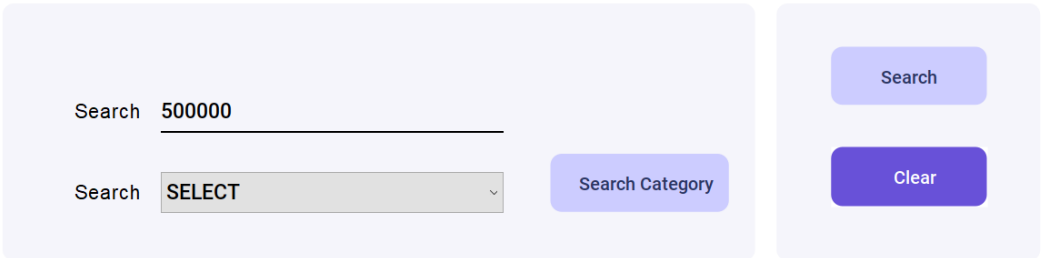


Figure 5: Searching using price

Product ID	Category	Product Name	Price	Range
105	Desktops	Lenovo ALL-IN-ONE	high	500000

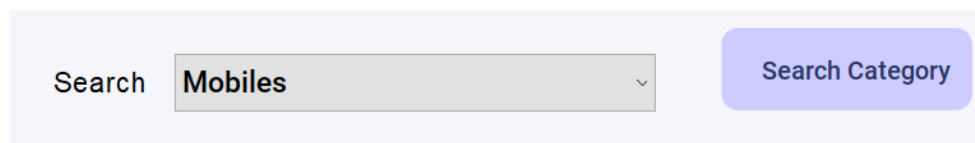
Figure 6: Search result on the basis of price

Searching records by category

In case the user wants to filter out the item based on its category, there is a category combo box within the search panel with dedicated searching button named as 'Category Search'. On searching the item based on its category, if there are any records found, the details of the item are displayed in the same search table. The program also displays suitable notification showing total number of items present in the searched category with the product/item's name.

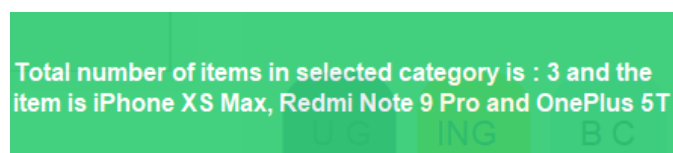
Procedures of searching records by category

To search record on the basis the item's category, a combo box is provided in the GUI. The combo box has same category list of the combo box that is present in the record addition panel. Here, the user searches for the category by selecting it first on the combo box and clicking on the 'search category' button. If it finds any item in the category, success notification is displayed with the total number of items and their names. Else, warning notification is displayed if the program cannot find any results.



The image shows a search panel with a light purple background. On the left, the word "Search" is followed by a dropdown menu currently displaying "Mobiles". To the right of the dropdown is a purple button with the text "Search Category".

Figure 7: Category search GUI



Total number of items in selected category is : 3 and the item is iPhone XS Max, Redmi Note 9 Pro and OnePlus 5T

Figure 8: Successful search notification

Product ID	Category	Product Name	Price	Range
104	Mobiles	iPhone XS Max	high	130000
1013	Mobiles	Redmi Note 9 Pro	low	15000
1014	Mobiles	OnePlus 5T	medium	60000

Figure 9: Search results on the basis of category

Updating/removing table records

To create a diverse and flexible inventory management system, it must have a feature to update the data inside of the table. If there is any kind of error in the stored record, updating program feature makes the management of inventory details much more efficient and effective. Likewise, user being able to remove an unnecessary or incorrect detail also plays a huge role for managing the details in the inventory. Both the features are provided by 'Gadget Nepal IS'.

Procedures for updating and removing table records

The updating and the removal of details in the table is done in update panel of GUI. The main component required for the removal or updating of the details is the product ID. Using product ID, the user is able to fetch all the details of the product. After entering product ID and clicking on the search button, all the details of the product is fetched and automatically implemented on the components of the GUI i.e. text fields, radio button, combo box. Now, user can manually change the details in the components and click on the update button. This changes the product details in the table. And for the removal, user enters the product ID, clicks on the search button. And after fetching the correct data, user can click on the remove button to remove the entire row of data from the table.

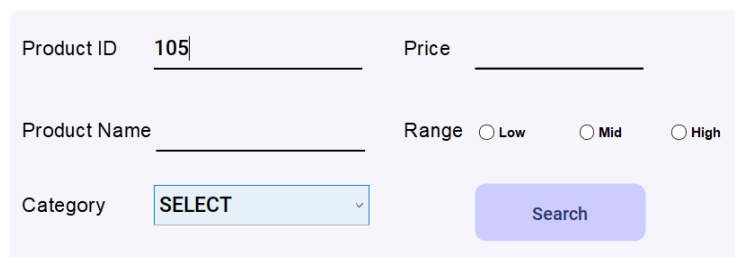


Figure 10: Entering Product ID for updating

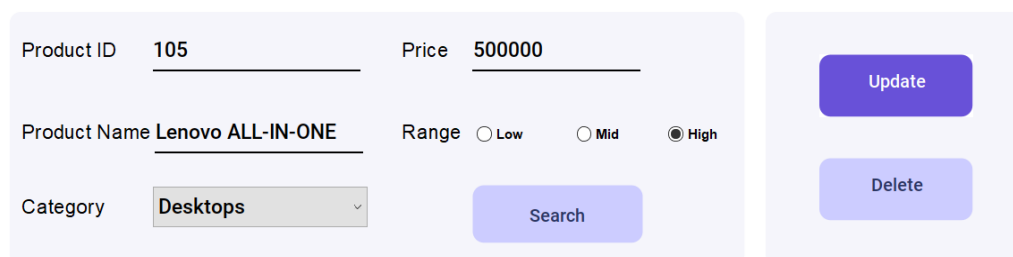


Figure 11: Details obtained from Product ID after clicking search button

Product ID

105

Price

300000

Product Name

Lenovo ALL-IN-ONE

Range

☐ Low
☐ Mid
☒ High

Category

Desktops

Search

Update

Delete

Figure 12: Changing value for updation

104	Mobiles	iPhone XS Max	high	130000
105	Desktops	Lenovo ALL-IN-ONE	high	300000
106	Oven	Samsung	medium	30000

Figure 13: Details being updated in the table after clicking update button

Product ID

101

Price

500000

Product Name

Acer Nitro

Range

☐ Low
☐ Mid
☒ High

Category

Laptops

Search

Update

Delete

Figure 14: Details obtained from Product ID after clicking search button

Product ID	Category	Product Name	Range	Price
102	Washing Machine	LG Super WM (25 kgs)	medium	25000
103	Gamina Consoles	PlavStation 5	high	50000

Figure 15: Details being removed from the table after clicking delete button

Exporting details of the table to CSV/txt file

For keeping backup of the details inserted into the table, the software provides user the capacity to export the records of the table to CSV (Comma Separated Values) file or txt file so that it can be browsed later on.

Procedures for exporting table details to CSV/txt file

For exporting data into CSV or txt file format, following procedures need to be executed:

- Click 'File' on the top menu bar.
- Hover the cursor over 'Export data'.
- Select 'Export to txt'

The program also has a separate tab for generating report which results in same progression after following above steps.

After following all the above procedures, the program will ask the user for setting up destination of storing the file including the file name according to user.

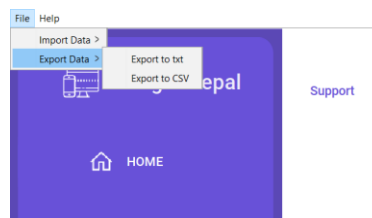


Figure 16: Clicking on export menu item

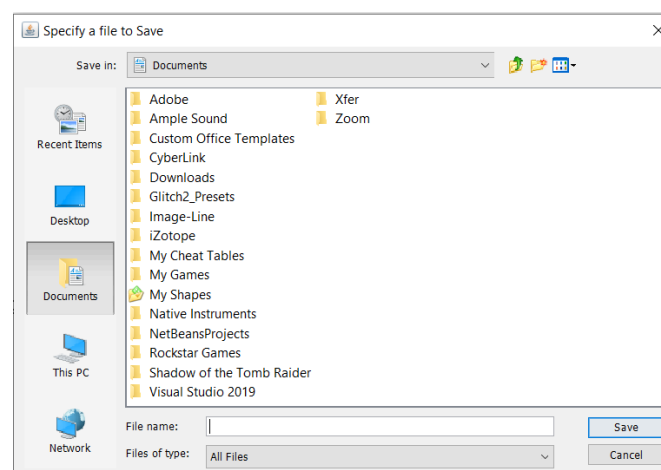


Figure 17: Selecting destination path and file name for exporting file

Importing details from CSV file to the table

The software provides user the capacity to import the records from CSV (Comma Separated Values) file or txt file and add the records back into a new table.

Procedures for importing details from CSV file

For importing data from CSV or txt file format into a table, following procedures need to be executed:

- Click 'File' on the top menu bar.
- Hover the cursor over 'Import data'.
- Select 'Export to txt' for txt file and 'Export to CSV' for CSV file.

After following all the above procedures, the program will ask the user for browsing and selecting the stored txt or CSV file from the storage.

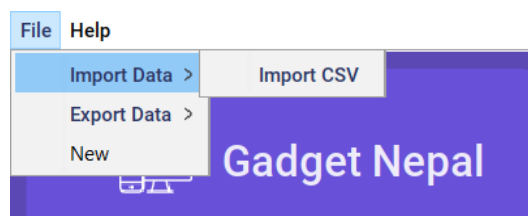


Figure 18: Clicking on import menu item

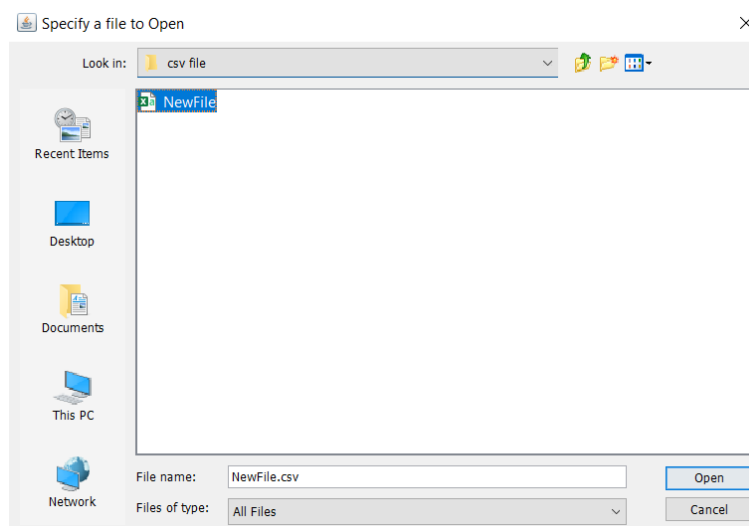


Figure 19: Selecting destination path and file name for importing file

Total Items : 15

Event



Jan 22, 2021

Product ID

Price

Product Name

Range ☐ Low ☐ Mid ☐ High

Category

Search

Update

Delete

Product ID	Category	Product Name	Range	Price
101	Laptops	Acer Nitro	high	500000
102	Washing Machine	LG Super WM (25 kgs)	medium	25000
103	Gaming Consoles	PlayStation 5	high	50000
104	Mobiles	iPhone XS Max	high	130000
105	Desktops	Lenovo ALL-IN-ONE	high	500000
106	Oven	Samsung	medium	30000
107	Refrigerators	Whirlpool Double Door	high	600000
108	Speakers	Beats by Dre	medium	60000
109	Toaster	CG	low	2500
1010	Generator	Exide (50 L)	medium	130000

Figure 20: File being imported to the program