

Electronic Home Appliance
- Basic User Guide -

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Introduction

Electronic Appliance IS is an Inventory Information System application. The application helps the user to keep track of Appliances information. There are different menus with different functions present in the application like register, creating account, file, help, compare, remove, edit and search helps to keep a record of the appliance much easier. The application is simple and is made easy to use for the user to easily manipulate data stored in the application. The application also helps to import and export data that are registered inside the application through which the user can manage multiple data and can access them easily. All the instructions manual is given below if the users are having a problem using this software.

Graphical Interface

Electronic Appliance IS uses simple Java GUI. The figure below shows the initial view of the application when it is first opened and logged in. The navigation bar is located at the bottom of the application which helps us to switch between multiple panels where we can register, edit, remove, view, and search Appliances present inside the program. A simple menu format is present at the top of the application. The GUI is simple to navigate and easy to use and understand the function of the buttons present inside each panel.

Functions

There are multiple Functions present in the program.

Creating a new account:

To create a new user account credentials like company name, username and password are to be entered.

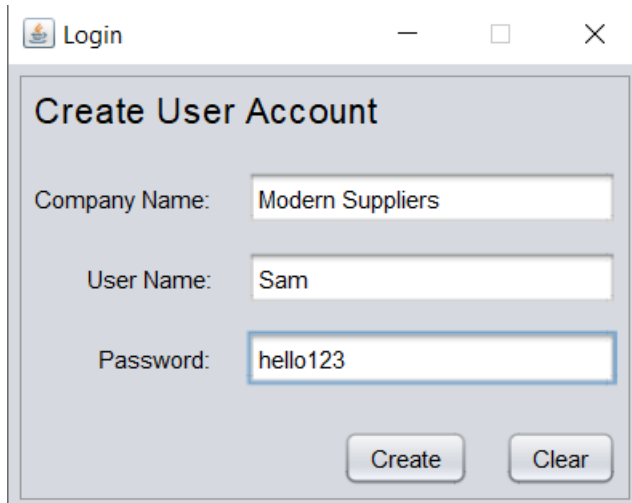
A screenshot of a 'Login' window with a 'Create User Account' sub-dialog. The sub-dialog has three input fields: 'Company Name' with the value 'Modern Suppliers', 'User Name' with the value 'Sam', and 'Password' with the value 'hello123'. Below the fields are two buttons: 'Create' and 'Clear'.

Figure 1: create a user account

After creating the user account, a message of successful account creation is displayed and also the backup code is given if the user by any chance forgets the password then they can enter the provided backup code. Users are required to save their backup code safely.

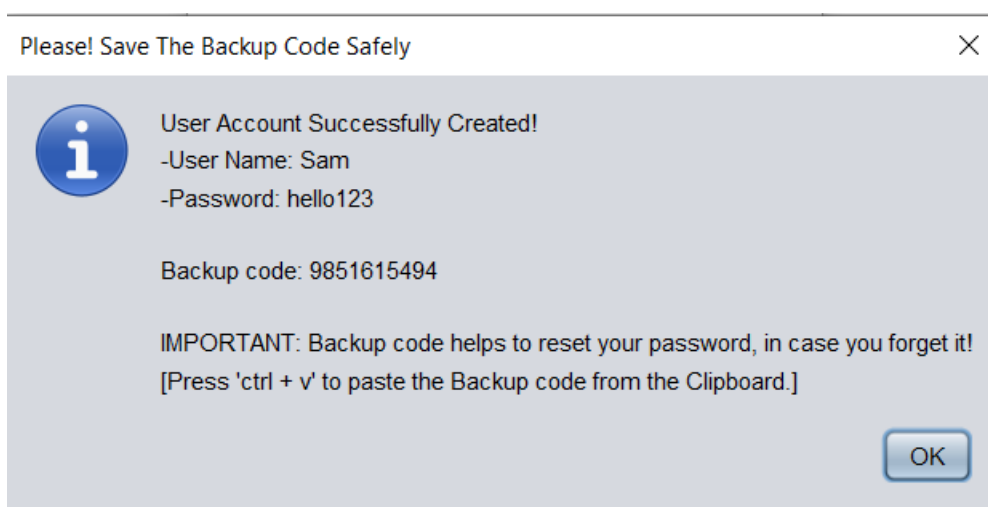
A screenshot of a message dialog box titled 'Please! Save The Backup Code Safely'. It features an information icon (i) and the following text: 'User Account Successfully Created!', '-User Name: Sam', '-Password: hello123', 'Backup code: 9851615494', and 'IMPORTANT: Backup code helps to reset your password, in case you forget it! [Press \'ctrl + v\' to paste the Backup code from the Clipboard.]'. An 'OK' button is located at the bottom right.

Figure 2: a message of account creation

Login user:

After creating the user account now, you can log in to access the program by entering your username and password.

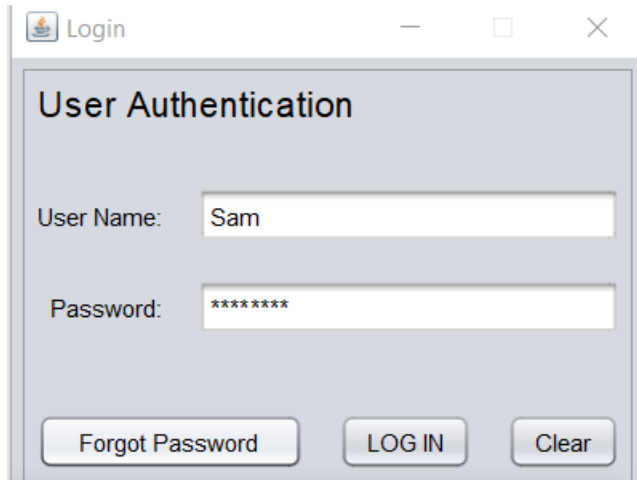
A screenshot of a 'Login' window titled 'User Authentication'. It features two input fields: 'User Name' with the text 'Sam' and 'Password' with masked characters '*****'. Below the fields are three buttons: 'Forgot Password', 'LOG IN', and 'Clear'.

Figure 3: user authentication

Resetting password:

If the user has forgotten the password, the user can set a new password by entering the backup code provided while creating a user account.

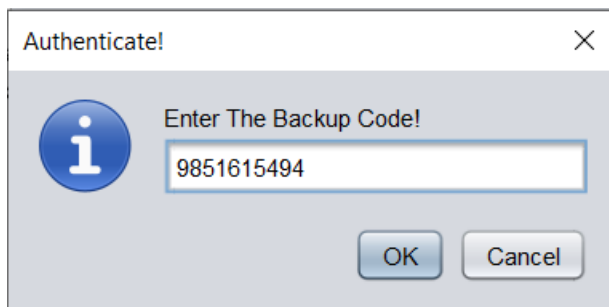
A screenshot of an 'Authenticate!' dialog box. It contains an information icon (a blue circle with a white 'i') and the text 'Enter The Backup Code!'. Below this is a text input field containing the number '9851615494'. At the bottom are 'OK' and 'Cancel' buttons.

Figure 4: entering backup code

Users have to enter the new password.

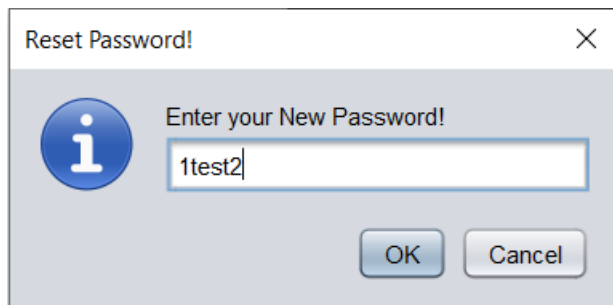


Figure 5: Setting a new password

After resetting the password, a pop-up message is displayed of successfully resetting the password along with the new password and also the new backup code is provided to the user.

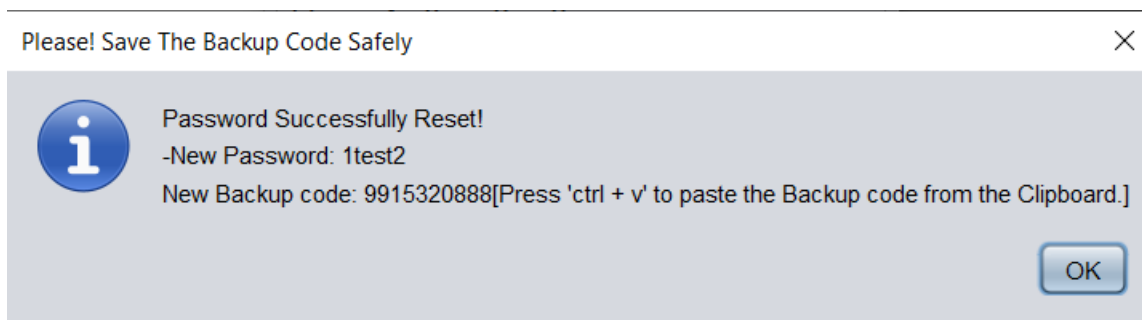


Figure 6: message after resetting the password

File:

Users can create a new file, open and save files, import and export the excel file, logout, and exit the program from the file menu which is located at the top left corner.

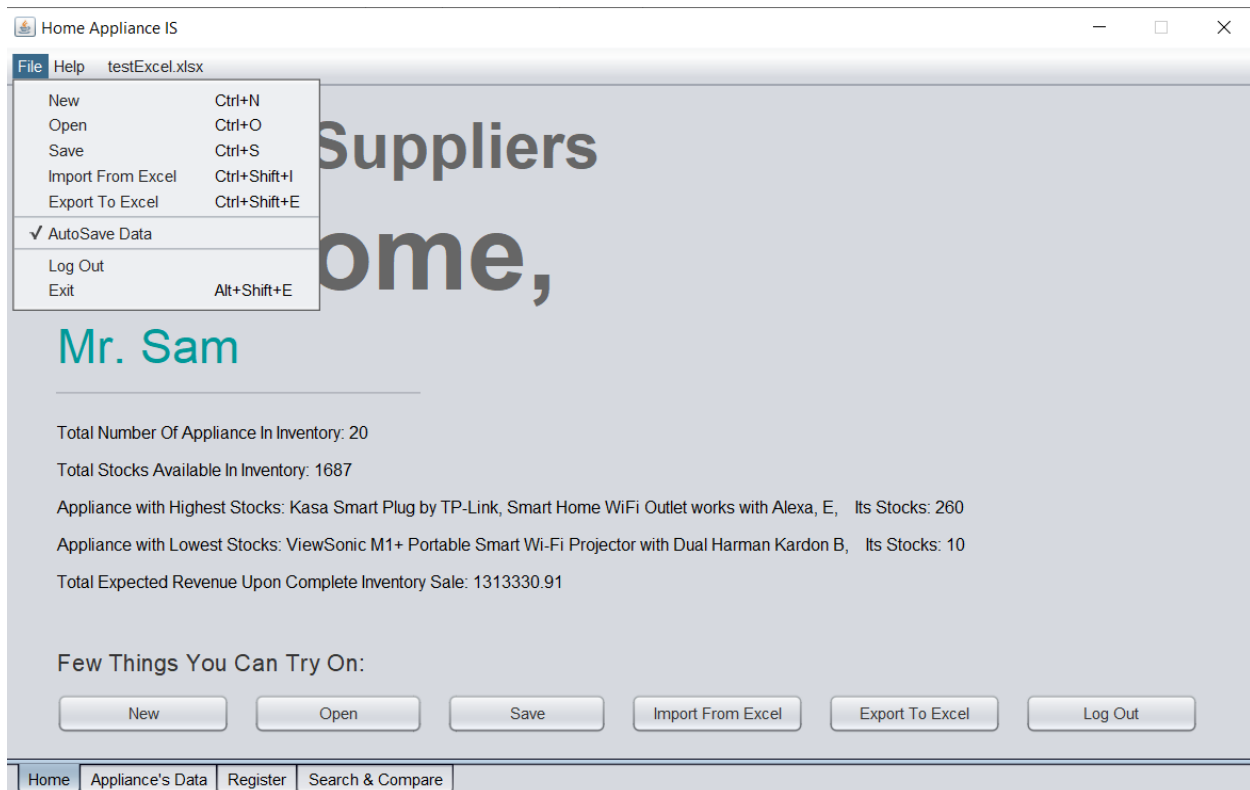


Figure 7: File

- **New:**

Users can create a new file for the details of appliances by clicking on the new. After that users must give a file name. Then click on the Save button

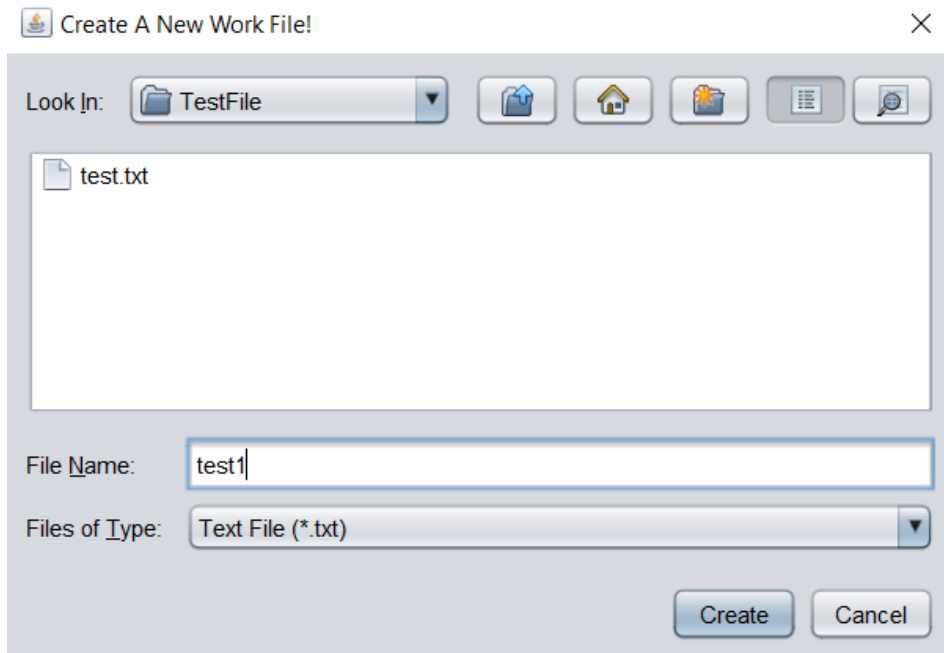


Figure 8: new file

- **Open:**

Users can open the saved files by clicking on the open. After choosing the file click on the open button.

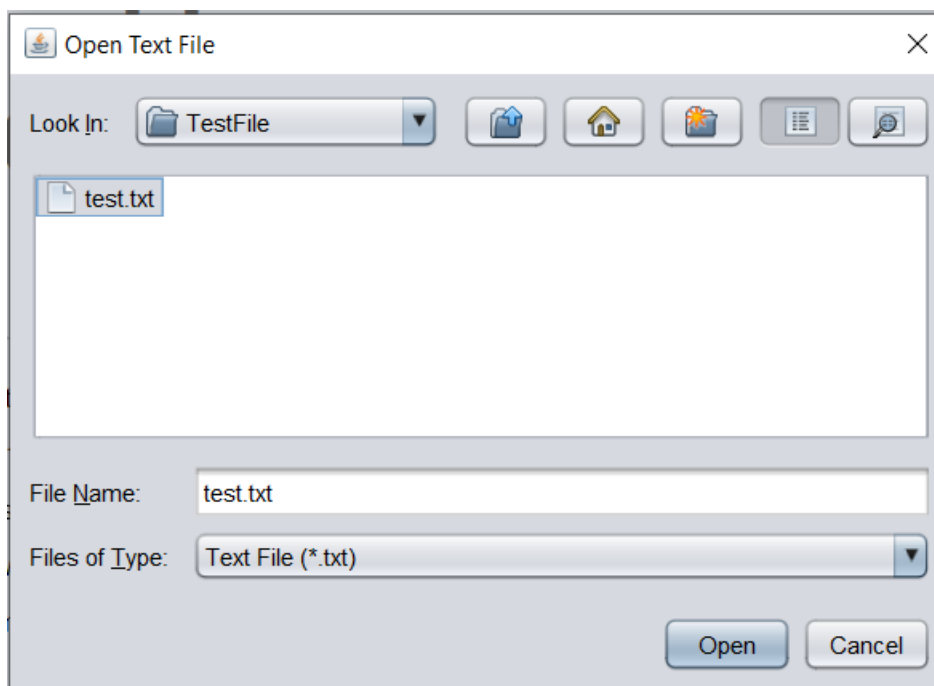


Figure 9: open file

- **Save:**

Users can save their existing files by clicking on the save button.

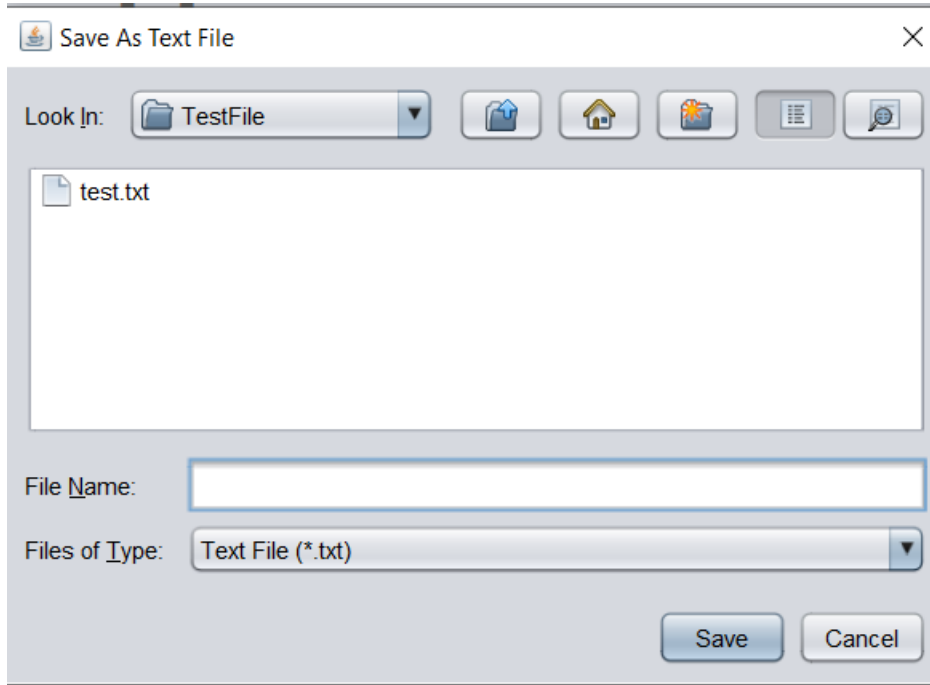


Figure 10: save file

- **Import from Excel:**

Users can import the excel files using the import on excel button. After choosing the excel file which you want to import click on the import button.

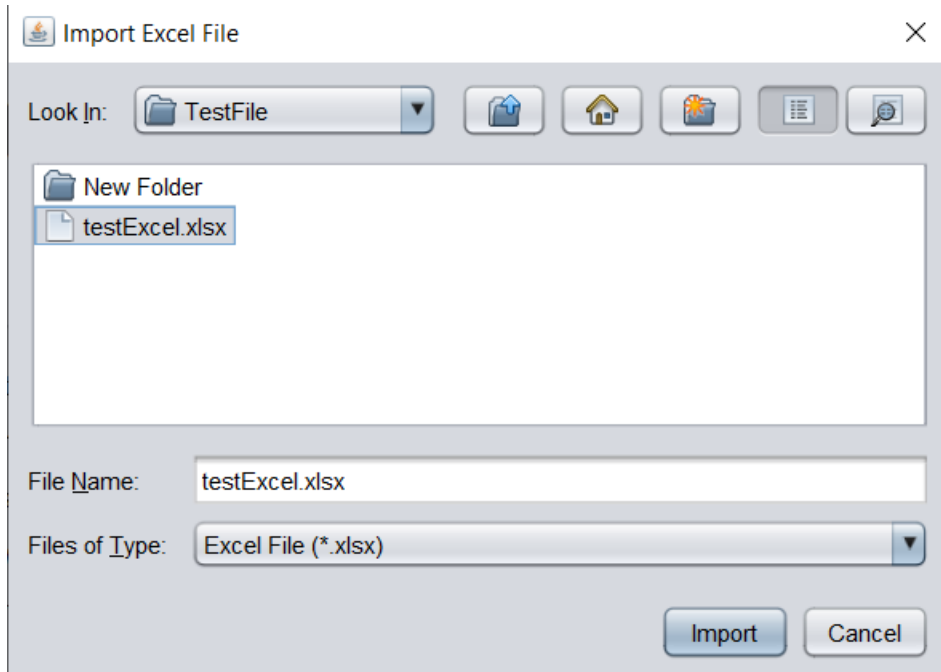


Figure 11: import excel file

After importing the excel files, users can see the appliance's data.

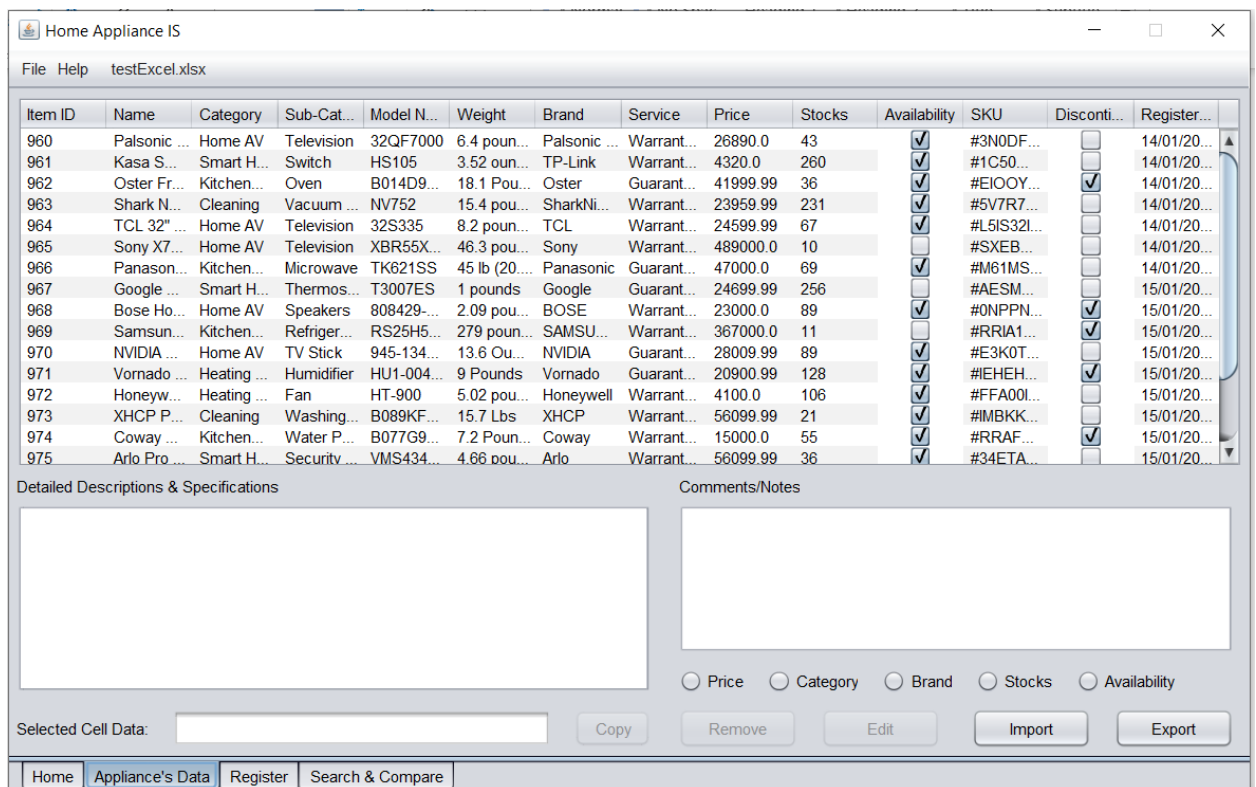


Figure 12: After importing a file

- **Export to excel:**

Users can export their files by clicking on the export to excel. After that users can choose the file location from the directory menu where they want to save.

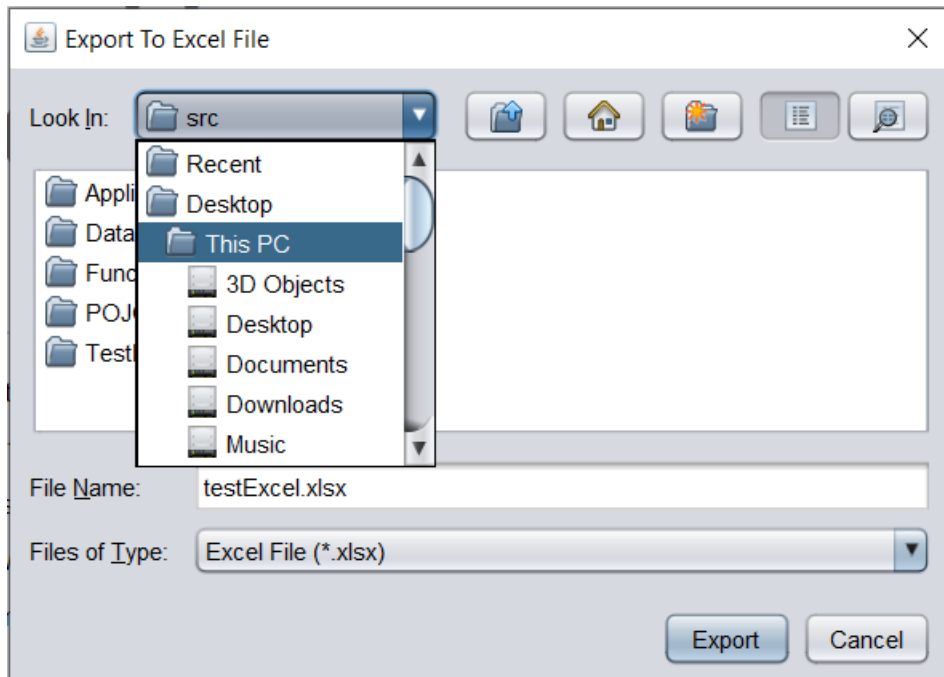


Figure 13: export excel file

Users can direct to the parent directories one level up using the first icon up one level.

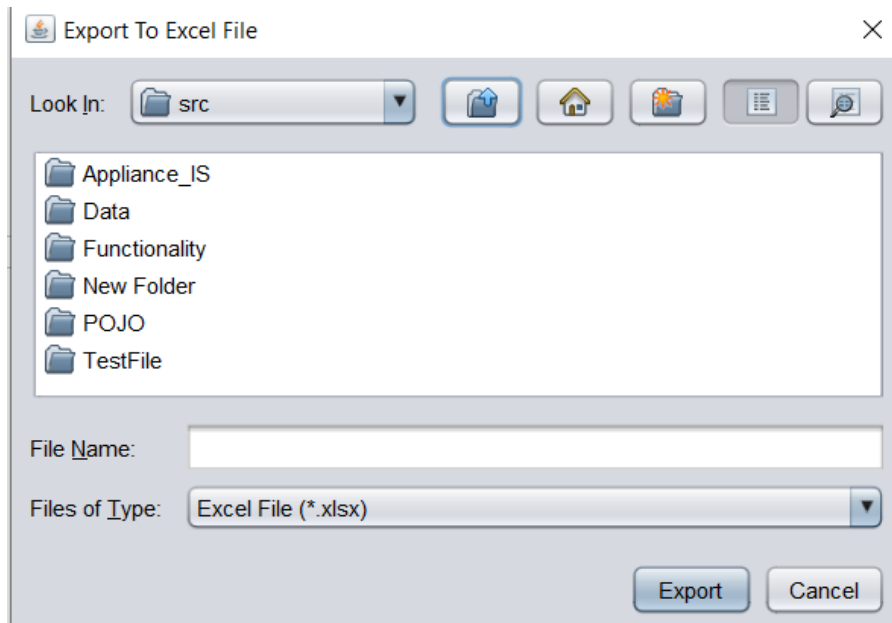


Figure 14: up one level

Users can direct to the home directory using the second home icon.

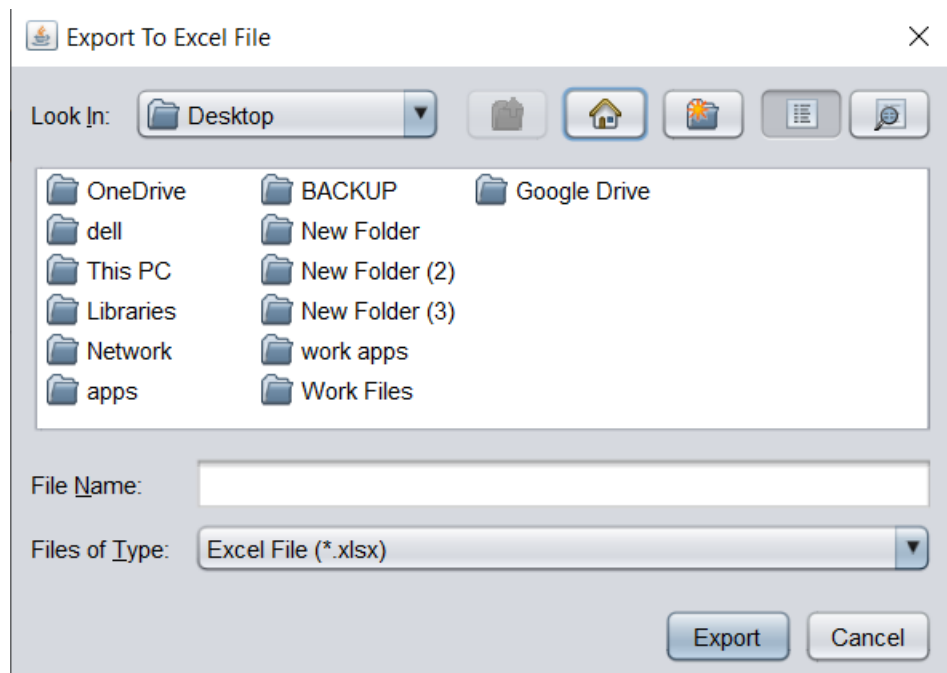


Figure 15: home

Users can create a new folder using the third icon.

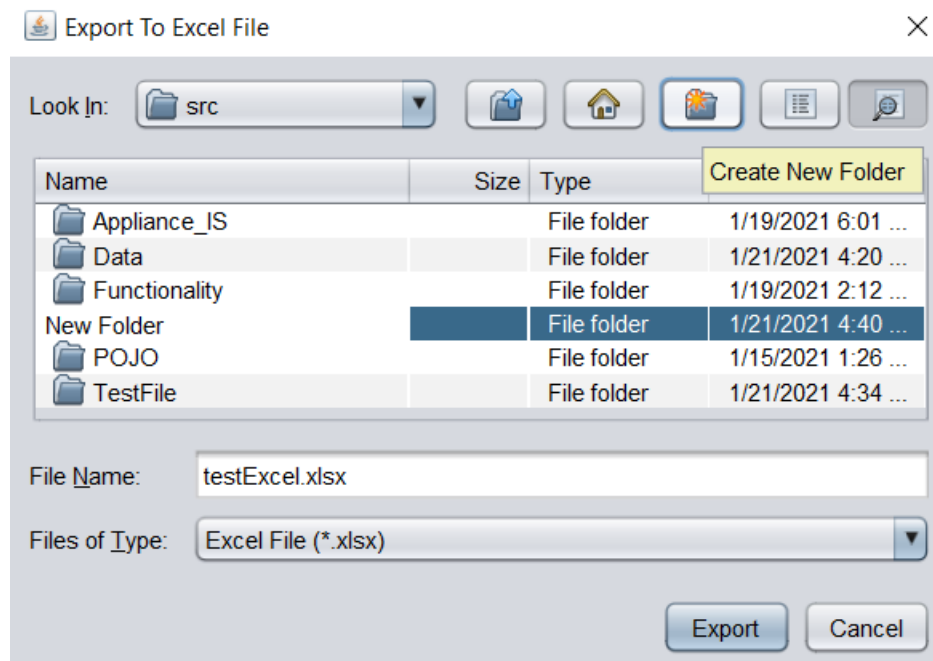


Figure 16: Creating a new folder

Users can see the details of files and folders using the detail icon.

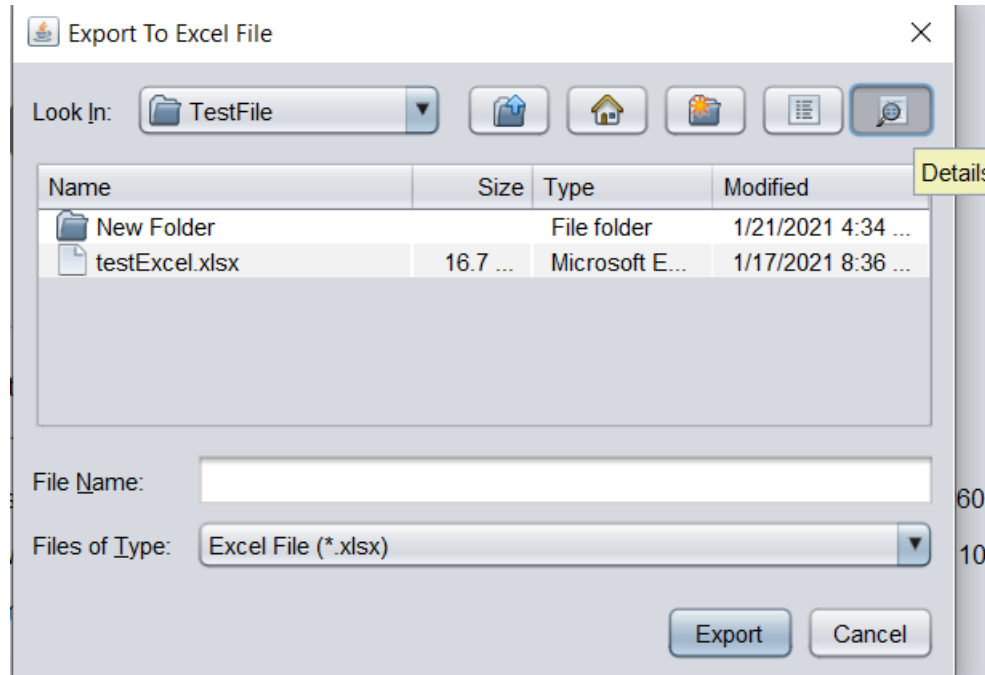


Figure 17: viewing the details of folders and file

After successfully exporting the file clicking on the export. Users can see the following message.

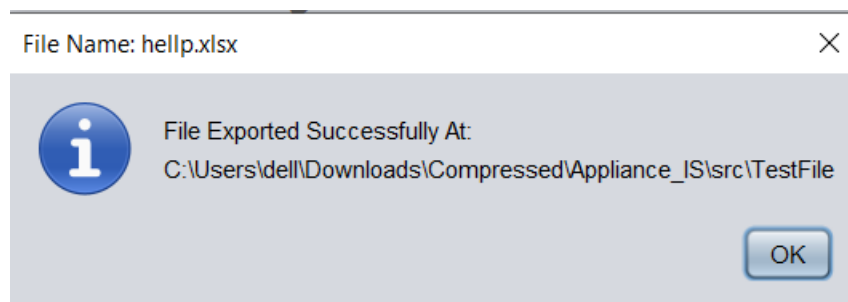


Figure 18: export message

- **AutoSave Data:**

Users can autosave the data of the items simply by clicking on the autosave data.

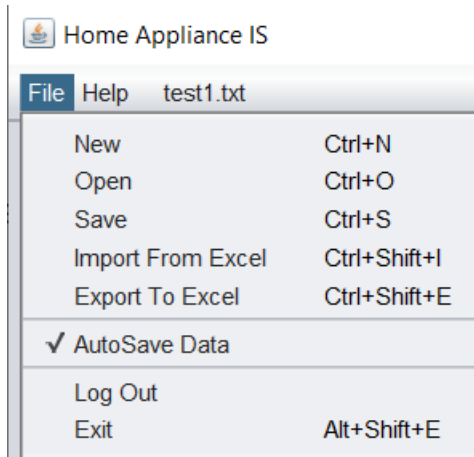


Figure 19: autosave

- **Logout:**

Users can log out from the program by clicking on logout and then a message pops out which is given below. Then click on the ok button.

NOTE: User must save their file before logging out, otherwise they can lose the file.

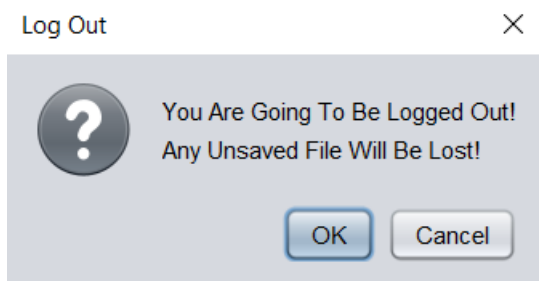


Figure 20: logout

- **Exit:**

Users can exit the program using the exit command. Click on the yes button to exit.

NOTE: Users must save their file if they haven't saved they can lose their data.

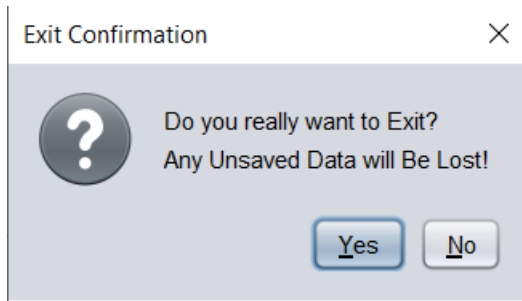


Figure 21: exit

Home:

In the home menu, users can see their username with the company's name. Details of the appliance in inventory like total number, total stocks, an appliance with highest Stocks, Appliance with lowest stocks, and total expected revenues are displayed in the home.

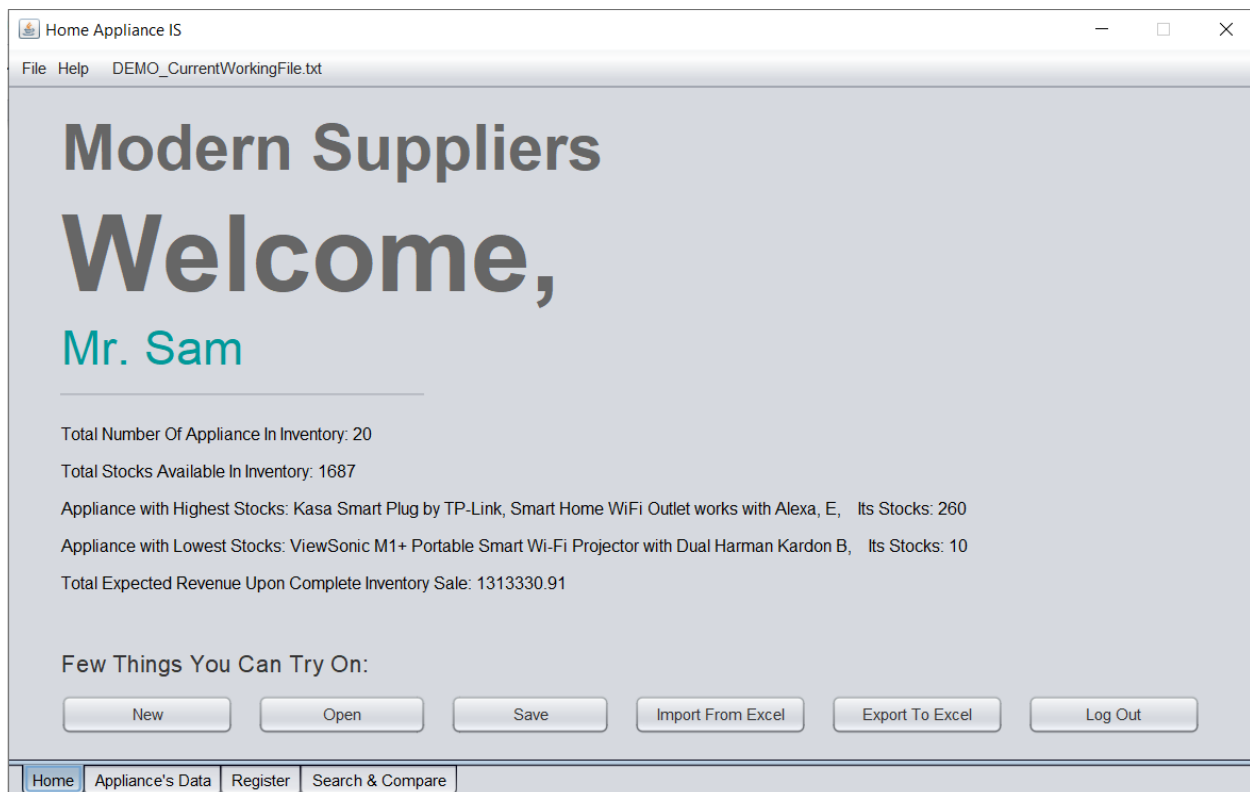


Figure 22: Home

Along this user can try the same functions at home as used in a file which are new, open, save, import from excel, export to excel, and logout.

Register:

Users can register their items on the register menu where all the details of items are required to fill like

- **Item-Id:** It automatically gets generated after the complete registration of an item.
- **Appliance name:** Users are required to enter the name of the appliance.
- **Category:** Users can choose a different category of appliances like Home AV, Kitchenware, Heating & Cooling, Smart Home, and Cleaning. Also, the users can choose a different subcategory of any particular category.
- **Model number:** users are required to enter the unique model number of items.
- **Price:** The price of an item is to be entered.
- **Brand:** The brand name of an item is to be entered.
- **Stocks:** The number of available stocks is to be entered.
- **SKU:** SKU is generated automatically by clicking on the generate SKU button.
- **Date:** Users can get date and time automatically while registering by clicking on the get Date & Time button.
- **Weight:** The weight of the items is required to be filled.
- **Services:** Users can choose which services like guarantee, warranty and repair are provided for a particular item. And also, the period of the services is required to fill on the services which are to be given.
- **Detail Specification:** All the detailed specification of the item is to be filled.

After filling in all these details the user can only then register the item successfully by clicking on the register button.

Home Appliance IS

File Help testExcel.xlsx

Item ID: Note: The ID is auto-generated upon registration.

Appliance Name:

Category: Sub Category:

Model Number: Price:

Brand: Stocks:

SKU: Date:

Weight:

Detail Specifications:

- 1400 RPM
- 6 motion
- Inverter Direct Drive
- Spa Strea
- Turbo Wash
- WiFi enabled

Optional: Can only be set upon registration.

Availability: ☐ Yes ☐ No

Discontinued: ☐ Yes ☐ No

Comments:

Services Period & Info

Services	Period & Info
<input checked="" type="checkbox"/> Guarantee	<input type="text" value="1 year"/>
<input checked="" type="checkbox"/> Warranty	<input type="text" value="2 year"/>
<input checked="" type="checkbox"/> Repair	<input type="text" value="1 year"/>

Home Appliance's Data Register Search & Compare

Figure 23: register

After clicking on the register button message is shown as given below.

Home Appliance IS

File Help testExcel.xlsx

Item ID: 980 Note: The ID is auto-generated upon registration.

Appliance Name: Front Load washing machine

Category: Cleaning Sub Category: Washing Machine

Model Number: 999 Price: 90000

Brand: LG Stocks: 8

SKU: #9C9MA99AC9T Date: 1/01/2021:Thu, 05:19 PM

Generate SKU Get Date & Time

Weight: 10 kg

Services Period & Info

Services	Period & Info
<input checked="" type="checkbox"/> Guarantee	1 year
<input checked="" type="checkbox"/> Warranty	2 year
<input checked="" type="checkbox"/> Repair	1 year

Optional: Can only be set upon registration.

Availability: ☒ Yes ☐ No

Discontinued: ☐ Yes ☒ No

Set

Detail Specifications:

- 1400 RPM
- 6 motion
- Inverter Direct Drive
- Spa Strea
- Turbo Wash
- WiFi enabled

Comments:

Cancel Update Register Clear

Message

i Data Entered.

OK

Home Appliance's Data Register Search & Compare

Figure 24: the message of data entered

Only after registering an item user can set the availability and discontinuation of an item which is optional also users can remark the comment of an item by clicking on the settings button. After the click message is shown.

Home Appliance IS

File Help testExcel.xlsx

Item ID: Note: The ID is auto-generated upon registration.

Appliance Name:

Category: Sub Category:

Model Number: Price:

Brand: Stocks:

SKU: Date:

Weight:

Detail Specifications:

- 1400 RPM
- 6 motion
- Inverter Direct Drive
- Spa Strea
- Turbo Wash
- WiFi enabled

Optional: Can only be set upon registration.

Availability: ☒ Yes ☐ No

Discontinued: ☐ Yes ☒ No

Comments:

Services

Services	Period & Info
<input checked="" type="checkbox"/> Guarantee	<input type="text" value="1 year"/>
<input checked="" type="checkbox"/> Warranty	<input type="text" value="2 year"/>
<input checked="" type="checkbox"/> Repair	<input type="text" value="1 year"/>

Optional Setup

☒ Set Successfully!

Home Appliance's Data Register Search & Compare

Figure 25: optional setup

- **Clear:**

Users can use the clear button to register the new item or clear the data.

The screenshot shows the 'Home Appliance IS' application window. The title bar includes 'File', 'Help', and 'testExcel.xlsx'. The main form contains several input fields and buttons:

- Item ID:** A text input field with a note: 'Note: The ID is auto-generated upon registration.'
- Appliance Name:** A text input field.
- Category:** A dropdown menu.
- Sub Category:** A dropdown menu.
- Model Number:** A text input field.
- Price:** A text input field.
- Brand:** A text input field.
- Stocks:** A text input field.
- SKU:** A text input field.
- Date:** A text input field.
- Weight:** A text input field.
- Generate SKU:** A button.
- Get Date & Time:** A button.
- Services:** A section with checkboxes for 'Guarantee', 'Warranty', and 'Repair', each followed by a text input field.
- Period & Info:** A section with radio buttons for 'Availability' (Yes/No) and 'Discontinued' (Yes/No), and a 'Set' button.
- Optional:** A note 'Optional: Can only be set upon registration.'
- Comments:** A large text area.
- Buttons:** 'Cancel', 'Update', 'Register', and 'Clear'.

The bottom of the window has a navigation bar with buttons: 'Home', 'Appliance's Data', 'Register', and 'Search & Compare'.

Figure 26: clear

Appliance's data:

All the details of the items are listed in this menu. The items can be sorted according to price, category, brand, stocks, and availability. This menu has many functions like copy, remove, edit, import, and export.

- **Price:** Items can be sorted according to the price in ascending order.

Home Appliance IS

File Help testExcel.xlsx

Item ID	Name	Category	Sub-Cat...	Model N...	Weight	Brand	Service	Price	Stocks	Availability	SKU	Disconti...	Register...
979	Aroma H...	Kitchen...	Rice Co...	ARC-91...	3.6 poun...	Aroma H...	Warrant...	4000.0	93	<input checked="" type="checkbox"/>	#G1AO4...	<input type="checkbox"/>	15/01/20...
972	Honeyw...	Heating ...	Fan	HT-900	5.02 pou...	Honeywell	Warrant...	4100.0	106	<input checked="" type="checkbox"/>	#FFA00...	<input type="checkbox"/>	15/01/20...
977	Lasko 75...	Heating ...	Air Purifier	755320	8 pounds	Lasko	Warrant...	4149.99	53	<input checked="" type="checkbox"/>	#E15A3U...	<input type="checkbox"/>	15/01/20...
961	Kasa S...	Smart H...	Switch	HS105	3.52 oun...	TP-Link	Warrant...	4320.0	260	<input checked="" type="checkbox"/>	#1C50...	<input type="checkbox"/>	14/01/20...
978	Edifier R...	Home AV	Speakers	R1280T	10.8 pou...	Edifier	Warrant...	15000.0	24	<input checked="" type="checkbox"/>	#21RKE...	<input type="checkbox"/>	15/01/20...
974	Coway ...	Kitchen...	Water P...	B077G9...	7.2 Poun...	Coway	Warrant...	15000.0	55	<input checked="" type="checkbox"/>	#RRAF...	<input checked="" type="checkbox"/>	15/01/20...
971	Vornado ...	Heating ...	Humidifier	HU1-004...	9 Pounds	Vornado	Guarant...	20900.99	128	<input checked="" type="checkbox"/>	#IEHEH...	<input checked="" type="checkbox"/>	15/01/20...
968	Bose Ho...	Home AV	Speakers	808429...	2.09 pou...	BOSE	Warrant...	23000.0	89	<input checked="" type="checkbox"/>	#0NPPN...	<input checked="" type="checkbox"/>	15/01/20...
963	Shark N...	Cleaning	Vacuum ...	NV752	15.4 pou...	SharkNi...	Warrant...	23959.99	231	<input checked="" type="checkbox"/>	#5V7R7...	<input type="checkbox"/>	14/01/20...
964	TCL 32" ...	Home AV	Television	32S335	8.2 poun...	TCL	Warrant...	24599.99	67	<input checked="" type="checkbox"/>	#L5IS32L...	<input type="checkbox"/>	14/01/20...
967	Google ...	Smart H...	Thermos...	T3007ES	1 pounds	Google	Guarant...	24699.99	256	<input checked="" type="checkbox"/>	#AESM...	<input type="checkbox"/>	15/01/20...
960	Palsonic ...	Home AV	Television	32QF7000	6.4 poun...	Palsonic ...	Warrant...	26890.0	43	<input checked="" type="checkbox"/>	#3N0DF...	<input type="checkbox"/>	14/01/20...
970	NVIDIA ...	Home AV	TV Stick	945-134...	13.6 Ou...	NVIDIA	Guarant...	28009.99	89	<input checked="" type="checkbox"/>	#E3K0T...	<input type="checkbox"/>	15/01/20...
976	ViewSon...	Home AV	Projectors	M1+	1.7 poun...	ViewSonic	Warrant...	37500.0	10	<input checked="" type="checkbox"/>	#OR1M...	<input type="checkbox"/>	15/01/20...
962	Oster Fr...	Kitchen...	Oven	B014D9...	18.1 Pou...	Oster	Guarant...	41999.99	36	<input checked="" type="checkbox"/>	#EIOOY...	<input checked="" type="checkbox"/>	14/01/20...
966	Panason...	Kitchen...	Microwave	TK621SS	45.lb /20...	Panasonic	Guarant...	47000.0	69	<input checked="" type="checkbox"/>	#M61MS...	<input type="checkbox"/>	14/01/20...

Detailed Descriptions & Specifications

Comments/Notes

Selected Cell Data:

☒ Price
 ☐ Category
 ☐ Brand
 ☐ Stocks
 ☐ Availability

Home Appliance's Data Register Search & Compare

Figure 27: price

- **Category:** Items can be sorted according to the category.

Home Appliance IS													
File Help testExcel.xlsx													
Item ID	Name	Category	Sub-Cat...	Model N...	Weight	Brand	Service	Price	Stocks	Availability	SKU	Disconti...	Register...
980	Front Lo...	Cleaning	Washing...	999	10 kg	LG	Warrant...	90000.0	8	<input checked="" type="checkbox"/>	#9C9MA...	<input type="checkbox"/>	21/01/20...
973	XHCP P...	Cleaning	Washing...	B089KF...	15.7 Lbs	XHCP	Warrant...	56099.99	21	<input checked="" type="checkbox"/>	#IMBKK...	<input type="checkbox"/>	15/01/20...
963	Shark N...	Cleaning	Vacuum ...	NV752	15.4 pou...	SharkNi...	Warrant...	23959.99	231	<input checked="" type="checkbox"/>	#5V7R7...	<input type="checkbox"/>	14/01/20...
977	Lasko 75...	Heating ...	Air Purifier	755320	8 pounds	Lasko	Warrant...	4149.99	53	<input checked="" type="checkbox"/>	#E15A3U...	<input type="checkbox"/>	15/01/20...
972	Honeyw...	Heating ...	Fan	HT-900	5.02 pou...	Honeywell	Warrant...	4100.0	106	<input checked="" type="checkbox"/>	#FFA00I...	<input type="checkbox"/>	15/01/20...
971	Vornado ...	Heating ...	Humidifier	HU1-004...	9 Pounds	Vornado	Guarant...	20900.99	128	<input checked="" type="checkbox"/>	#IEEH...	<input checked="" type="checkbox"/>	15/01/20...
978	Edifier R...	Home AV	Speakers	R1280T	10.8 pou...	Edifier	Warrant...	15000.0	24	<input type="checkbox"/>	#21RKE...	<input type="checkbox"/>	15/01/20...
976	ViewSon...	Home AV	Projectors	M1+	1.7 poun...	ViewSonic	Warrant...	37500.0	10	<input type="checkbox"/>	#OR1M...	<input type="checkbox"/>	15/01/20...
970	NVIDIA ...	Home AV	TV Stick	945-134...	13.6 Ou...	NVIDIA	Guarant...	28009.99	89	<input checked="" type="checkbox"/>	#E3K0T...	<input type="checkbox"/>	15/01/20...
968	Bose Ho...	Home AV	Speakers	808429...	2.09 pou...	BOSE	Warrant...	23000.0	89	<input checked="" type="checkbox"/>	#0NPPN...	<input checked="" type="checkbox"/>	15/01/20...
965	Sony X7...	Home AV	Television	XBR55X...	46.3 pou...	Sony	Warrant...	489000.0	10	<input type="checkbox"/>	#SXEB...	<input type="checkbox"/>	14/01/20...
964	TCL 32"	Home AV	Television	32S335	8.2 poun...	TCL	Warrant...	24599.99	67	<input checked="" type="checkbox"/>	#L5IS32I...	<input type="checkbox"/>	14/01/20...
960	Palsonic ...	Home AV	Television	32QF7000	6.4 poun...	Palsonic ...	Warrant...	26890.0	43	<input checked="" type="checkbox"/>	#3N0DF...	<input type="checkbox"/>	14/01/20...
979	Aroma H...	Kitchen...	Rice Co...	ARC-91...	3.6 poun...	Aroma H...	Warrant...	4000.0	93	<input checked="" type="checkbox"/>	#G1AO4...	<input type="checkbox"/>	15/01/20...
974	Coway ...	Kitchen...	Water P...	B077G9...	7.2 Poun...	Coway	Warrant...	15000.0	55	<input checked="" type="checkbox"/>	#RRAF...	<input checked="" type="checkbox"/>	15/01/20...
969	Samsun...	Kitchen...	Refriore...	RS25H5...	279 poun...	SAMSU...	Warrant...	367000.0	11	<input type="checkbox"/>	#RRIA1...	<input checked="" type="checkbox"/>	15/01/20...

Detailed Descriptions & Specifications

- ★Temperglass panel-The panel is made of temperglass,dustproof and easy to clean,can be usfor decorating home.
- ★Fully automatic washing-One button start design on the panel,simple operation,there is no problem with the operation for the elderly and children.
- ★Square barrel-There is a magic filer box in the square barrel,which can filter the small amount of waste like paper dust in the washing process, making the laundry cleaner
- ★Detachable drain basket-When do washing,take out the drain basket.After

Comments/Notes

Selected Cell Data: MODEL NUMBER: B089KFHBKG

Copy Remove Edit Import Export

Home Appliance's Data Register Search & Compare

Figure 28: category

- **Brand:** Items can be sorted according to the brand name.

Home Appliance IS

File Help testExcel.xlsx

Item ID	Name	Category	Sub-Cat...	Model N...	Weight	Brand	Service	Price	Stocks	Availability	SKU	Disconti...	Register...
975	Arlo Pro ...	Smart H...	Security ...	VMS434...	4.66 pou...	Arlo	Warrant...	56099.99	36	<input checked="" type="checkbox"/>	#34ETA...	<input type="checkbox"/>	15/01/20...
979	Aroma H...	Kitchen...	Rice Co...	ARC-91...	3.6 poun...	Aroma H...	Warrant...	4000.0	93	<input checked="" type="checkbox"/>	#G1AO4...	<input type="checkbox"/>	15/01/20...
968	Bose Ho...	Home AV	Speakers	808429...	2.09 pou...	BOSE	Warrant...	23000.0	89	<input checked="" type="checkbox"/>	#0NPPN...	<input checked="" type="checkbox"/>	15/01/20...
974	Coway ...	Kitchen...	Water P...	B077G9...	7.2 Poun...	Coway	Warrant...	15000.0	55	<input checked="" type="checkbox"/>	#RRAF...	<input checked="" type="checkbox"/>	15/01/20...
978	Edifier R...	Home AV	Speakers	R1280T	10.8 pou...	Edifier	Warrant...	15000.0	24	<input type="checkbox"/>	#21RKE...	<input type="checkbox"/>	15/01/20...
967	Google ...	Smart H...	Thermos...	T3007ES	1 pounds	Google	Guarant...	24699.99	256	<input type="checkbox"/>	#AESM...	<input type="checkbox"/>	15/01/20...
972	Honeyw...	Heating ...	Fan	HT-900	5.02 pou...	Honeywell	Warrant...	4100.0	106	<input checked="" type="checkbox"/>	#FFA00L...	<input type="checkbox"/>	15/01/20...
980	Front Lo...	Cleaning	Washing...	999	10 kg	LG	Warrant...	90000.0	8	<input checked="" type="checkbox"/>	#9C9MA...	<input type="checkbox"/>	21/01/20...
977	Lasko 75...	Heating ...	Air Purifier	755320	8 pounds	Lasko	Warrant...	4149.99	53	<input checked="" type="checkbox"/>	#E15A3U...	<input type="checkbox"/>	15/01/20...
970	NVIDIA ...	Home AV	TV Stick	945-134...	13.6 Ou...	NVIDIA	Guarant...	28009.99	89	<input checked="" type="checkbox"/>	#E3K0T...	<input type="checkbox"/>	15/01/20...
962	Oster Fr...	Kitchen...	Oven	B014D9...	18.1 Pou...	Oster	Guarant...	41999.99	36	<input checked="" type="checkbox"/>	#E1O0Y...	<input checked="" type="checkbox"/>	14/01/20...
960	Palsonic ...	Home AV	Television	32QF7000	6.4 poun...	Palsonic ...	Warrant...	26890.0	43	<input checked="" type="checkbox"/>	#3N0DF...	<input type="checkbox"/>	14/01/20...
966	Panason...	Kitchen...	Microwave	TK621SS	45 lb (20...	Panasonic	Guarant...	47000.0	69	<input type="checkbox"/>	#M61MS...	<input type="checkbox"/>	14/01/20...
969	Samsun...	Kitchen...	Refriger...	RS25H5...	279 poun...	SAMSU...	Warrant...	367000.0	11	<input type="checkbox"/>	#RR1A1...	<input checked="" type="checkbox"/>	15/01/20...
963	Shark N...	Cleaning	Vacuum ...	NV752	15.4 pou...	SharkNi...	Warrant...	23959.99	231	<input checked="" type="checkbox"/>	#5V7R7...	<input type="checkbox"/>	14/01/20...
965	Sony X7...	Home AV	Television	XBR55X...	46.3 pnu...	Sony...	Warrant...	489000.0	10	<input type="checkbox"/>	#SXER...	<input type="checkbox"/>	14/01/20...

Detailed Descriptions & Specifications

- Spend less time recharging with 6 months of battery life on one charge.
- No monthly fees or service contract required.
- Zoom in to see sharp details - See and record video in 2K with HDR for a clearer, undistorted picture, day or night.
- See colorful at night - See features like faces or license plates in full color, even at night, with color night vision.
- Smarter alerts, quicker action - Receive notifications for people, vehicles, and packages so you can take quick action such as sound the siren, call a friend or dial

Comments/Notes

Selected Cell Data: MODEL NUMBER: VMS4340P-100NAS

Copy Remove Edit Import Export

Home Appliance's Data Register Search & Compare

Figure 29: brand

- **Stocks:** Items can be sorted according to the number of stocks.

Home Appliance IS													
File Help testExcel.xlsx													
Item ID	Name	Category	Sub-Cat...	Model N...	Weight	Brand	Service	Price	Stocks	Availability	SKU	Disconti...	Register...
980	Front Lo...	Cleaning	Washing...	999	10 kg	LG	Warrant...	90000.0	8	<input checked="" type="checkbox"/>	#9C9MA...	<input type="checkbox"/>	21/01/20...
976	ViewSon...	Home AV	Projectors	M1+	1.7 poun...	ViewSonic	Warrant...	37500.0	10	<input type="checkbox"/>	#OR1M...	<input type="checkbox"/>	15/01/20...
965	Sony X7...	Home AV	Television	XBR55X...	46.3 pou...	Sony	Warrant...	489000.0	10	<input type="checkbox"/>	#SXEB...	<input type="checkbox"/>	14/01/20...
969	Samsun...	Kitchen...	Refriger...	RS25H5...	279 poun...	SAMSU...	Warrant...	367000.0	11	<input type="checkbox"/>	#RRIA1...	<input checked="" type="checkbox"/>	15/01/20...
973	XHCP P...	Cleaning	Washing...	B089KF...	15.7 Lbs	XHCP	Warrant...	56099.99	21	<input checked="" type="checkbox"/>	#IMBK...	<input type="checkbox"/>	15/01/20...
978	Edifier R...	Home AV	Speakers	R1280T	10.8 pou...	Edifier	Warrant...	15000.0	24	<input type="checkbox"/>	#21RKE...	<input type="checkbox"/>	15/01/20...
975	Arlo Pro ...	Smart H...	Security ...	VMS434...	4.66 pou...	Arlo	Warrant...	56099.99	36	<input checked="" type="checkbox"/>	#34ETA...	<input type="checkbox"/>	15/01/20...
962	Oster Fr...	Kitchen...	Oven	B014D9...	18.1 Pou...	Oster	Guarant...	41999.99	36	<input checked="" type="checkbox"/>	#EIOOY...	<input checked="" type="checkbox"/>	14/01/20...
960	Palsonic ...	Home AV	Television	32QF7000	6.4 poun...	Palsonic ...	Warrant...	26890.0	43	<input checked="" type="checkbox"/>	#3N0DF...	<input type="checkbox"/>	14/01/20...
977	Lasko 75...	Heating ...	Air Purifier	755320	8 pounds	Lasko	Warrant...	4149.99	53	<input checked="" type="checkbox"/>	#Ei5A3U...	<input type="checkbox"/>	15/01/20...
974	Coway ...	Kitchen...	Water P...	B077G9...	7.2 Poun...	Coway	Warrant...	15000.0	55	<input checked="" type="checkbox"/>	#RRAF...	<input checked="" type="checkbox"/>	15/01/20...
964	TCL 32"	Home AV	Television	32S335	8.2 poun...	TCL	Warrant...	24599.99	67	<input checked="" type="checkbox"/>	#L5IS32I...	<input type="checkbox"/>	14/01/20...
966	Panason...	Kitchen...	Microwave	TK621SS	45 lb (20....	Panasonic	Guarant...	47000.0	69	<input checked="" type="checkbox"/>	#M61MS...	<input type="checkbox"/>	14/01/20...
970	NVIDIA ...	Home AV	TV Stick	945-134...	13.6 Ou...	NVIDIA	Guarant...	28009.99	89	<input checked="" type="checkbox"/>	#E3K0T...	<input type="checkbox"/>	15/01/20...
968	Bose Ho...	Home AV	Speakers	808429...	2.09 pou...	BOSE	Warrant...	23000.0	89	<input checked="" type="checkbox"/>	#0NPPN...	<input checked="" type="checkbox"/>	15/01/20...
979	Aroma.H...	Kitchen...	Rice Co...	ARC-91...	3.6 poun...	Aroma.H...	Warrant...	4000.0	93	<input checked="" type="checkbox"/>	#G1AQ4...	<input type="checkbox"/>	15/01/20...
Detailed Descriptions & Specifications													
<div> <div> -1400 RPM -6 motion -Inverter Direct Drive -Spa Strea -Turbo Wash -WiFi enabled </div> <div> Comments/Notes Available on stocks now </div> </div>													
<div> <input type="radio"/> Price <input type="radio"/> Category <input type="radio"/> Brand <input checked="" type="radio"/> Stocks <input type="radio"/> Availability </div>													
<div> Selected Cell Data: WEIGHT: 10 kg <div>Copy</div> <div>Remove</div> <div>Edit</div> <div>Import</div> <div>Export</div> </div>													
<div> Home Appliance's Data Register Search & Compare </div>													

Figure 30: stocks

- **Availability:** Items can be sorted according to the availability of an item.

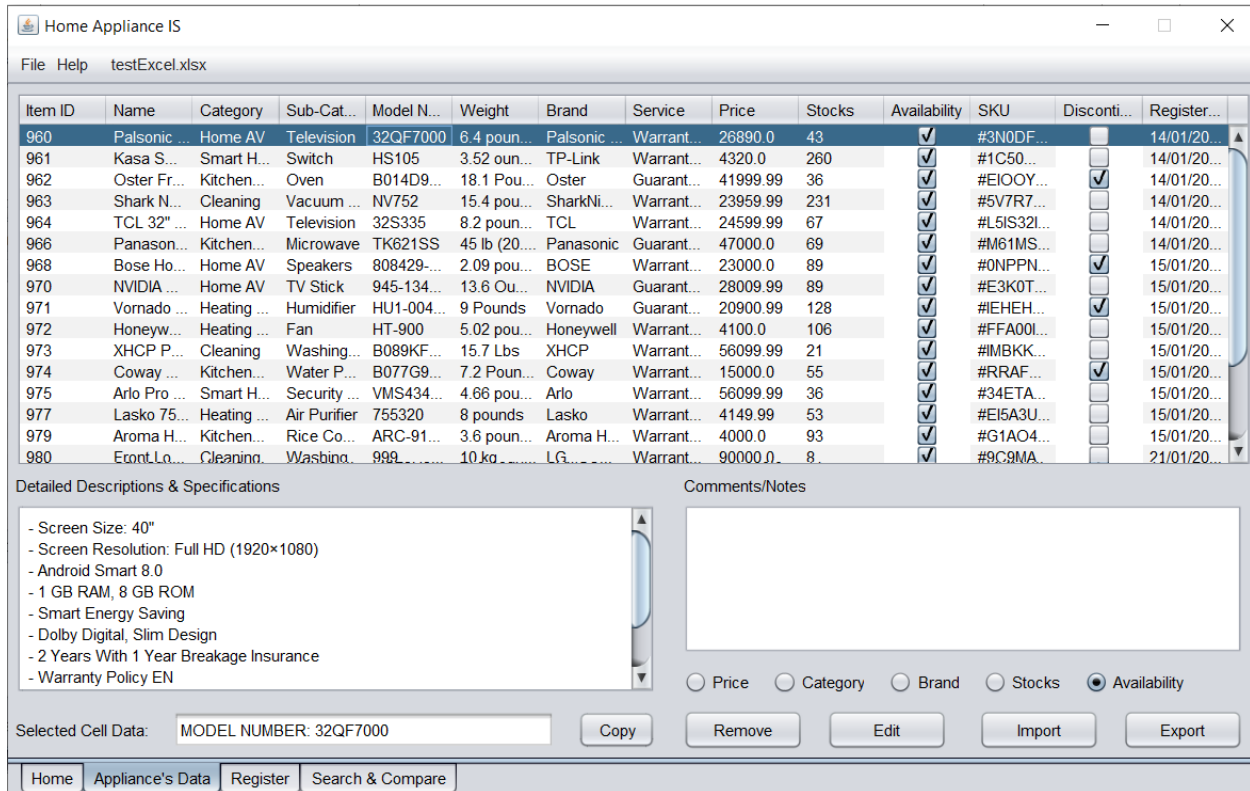


Figure 31: availability

- Copy:**
 Users can copy the details of an item using the copy button.
- Remove:**
 Users can remove any item from the list using the remove button. The message, as shown below, is displayed while removing items where users have to click on the Ok button to delete the data.

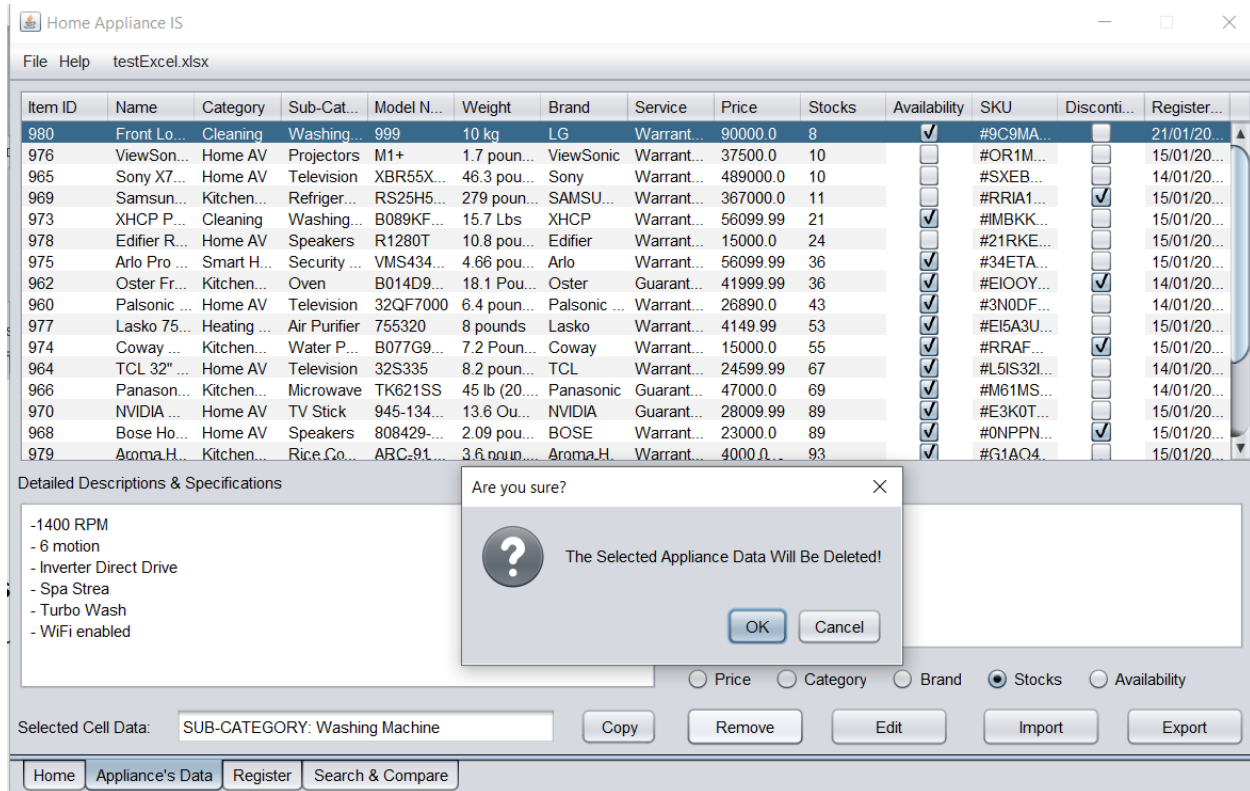


Figure 32: remove

- **Edit:**

If users are required to edit or update the item details then use the edit button. After the click on the edit button users will be directed into the register menu where they can update the necessary data of an item.

Home Appliance IS

File Help testExcel.xlsx

Item ID: Note: The ID is auto-generated upon registration.

Appliance Name:

Category: Sub Category:

Model Number: Price:

Brand: Stocks:

SKU: Date:

Weight:

Optional: Can only be set upon registration.

Availability: ☐ Yes ☐ No

Discontinued: ☐ Yes ☐ No

Comments:

Home Appliance's Data Register Search & Compare

Figure 33: edit

- **Import:**

Users can import the data of an item using the import button. They can import any one data of an item using the import button where users must select a file name.

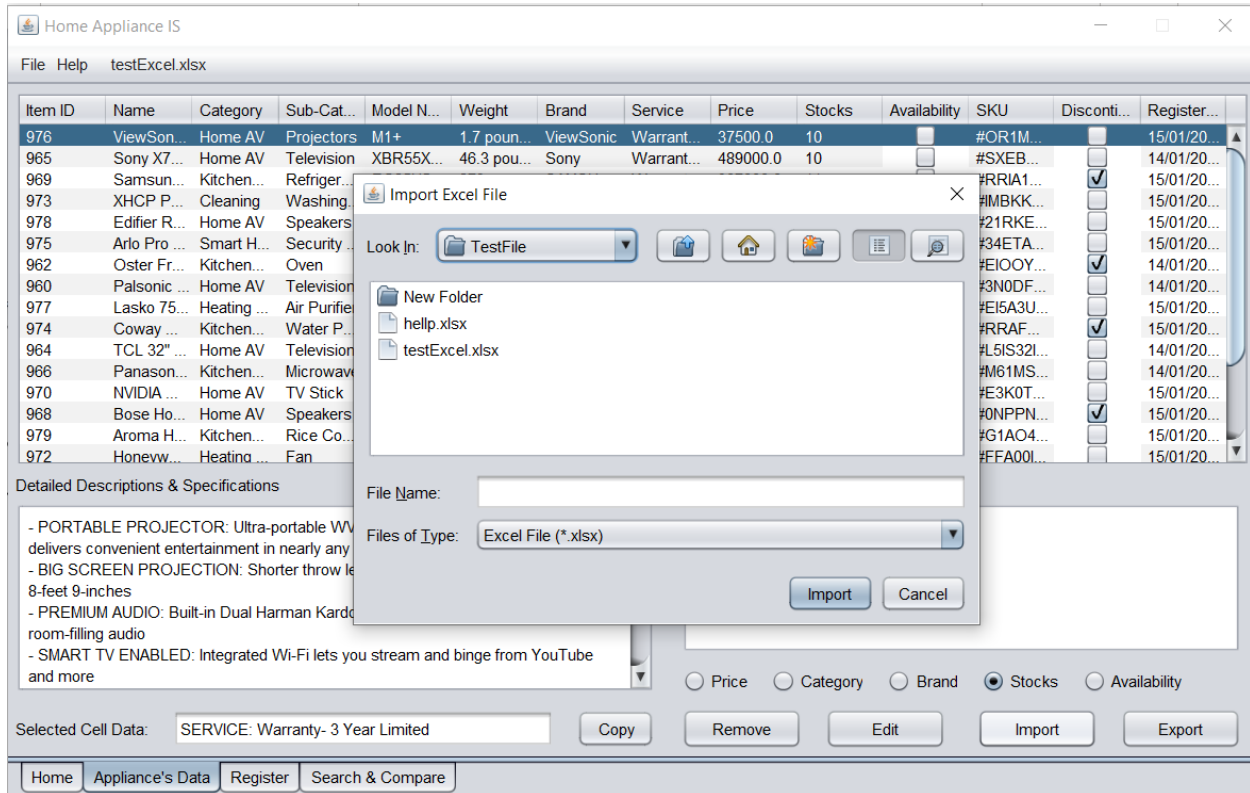


Figure 34: import

- **Export:**

Users can export the data of an item using the export button where users have to write a file name

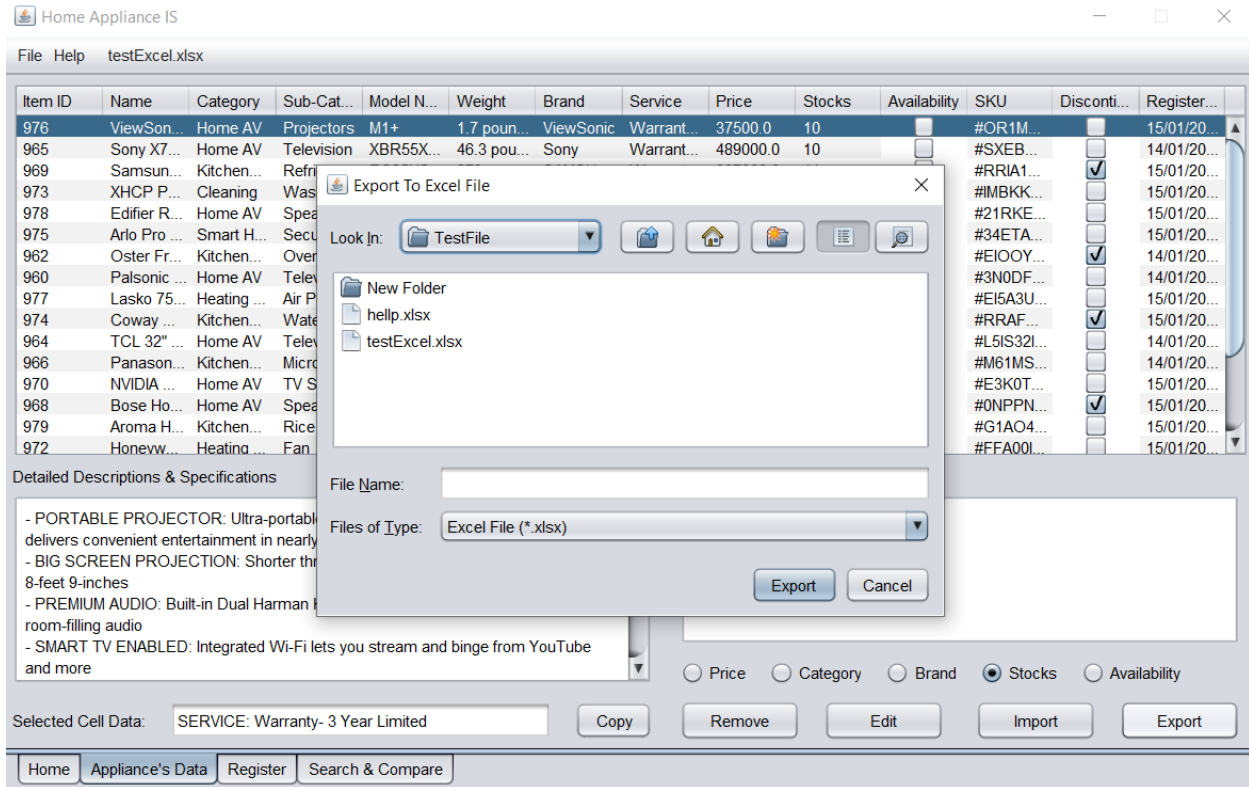


Figure 35: export

Search & Compare:

Users can search and compare the items.

- **Search by:**

Users can search the items according to the category, price, and name of the item.

- **Category:**

Users can search the items based on category by selecting a category in search by a scrollbar. The list of subcategories can be chosen from the category. After clicking on the search button following details and messages of items are displayed.

The screenshot shows the 'Home Appliance IS' application window. It features a menu bar with 'File' and 'Help', and a title bar with 'testExcel.xlsx'. The main interface is divided into several sections:

- Search Filters:**
 - Category:** A dropdown menu set to 'Home AV'.
 - Name:** A text input field.
 - Price:** A section with 'From:' and 'To:' text input fields.
 - Search By:** A dropdown menu set to 'Category'.
 - Buttons:** 'Clear' and 'Search' buttons.
- Appliance Comparison:**
 - Appliance 1:** An ID input field.
 - Appliance 2:** An ID input field.
 - Compare:** A button.
 - Comparison Table:** A table with columns 'Appliance 1', 'Vs', and 'Appliance 2'.
- Product List Table:**

Item ID	Name	Category	Sub-Cat...	Model N...	Weight	Brand	Service	Price	Stocks	Availability	SKU	Disconti...	Register...
965	Sony X7...	Home AV	Television	XBR55X...	46.3 pou...	Sony	Warrant...	489000.0	10	<input type="checkbox"/>	#SXEB...	<input type="checkbox"/>	14/01/20...
968	Bose Ho...	Home AV	Speakers	808429-...	2.09 pou...	BOSE	Warrant...	23000.0	89	<input checked="" type="checkbox"/>	#0NPPN...	<input checked="" type="checkbox"/>	15/01/20...
970	NVIDIA ...	Home AV	TV Stick	945-134...	13.6 Ou...	NVIDIA	Guarant...	28009.99	89	<input checked="" type="checkbox"/>	#E3K0T...	<input type="checkbox"/>	15/01/20...
976	ViewSon...	Home AV	Projectors	M1+	1.7 poun...	ViewSonic	Warrant...	37500.0	10	<input type="checkbox"/>	#OR1M...	<input type="checkbox"/>	15/01/20...
978	Edifier R...	Home AV	Speakers	R1280T	10.8 pou...	Edifier	Warrant...	15000.0	24	<input type="checkbox"/>	#21RKE...	<input type="checkbox"/>	15/01/20...
964	TCL 32" ...	Home AV	Television	32S335	8.2 poun...	TCL	Warrant...	24599.99	67	<input checked="" type="checkbox"/>	#L5IS32L...	<input type="checkbox"/>	14/01/20...
960	Palsonic ...	Home AV	Television	32QF7000	6.4 poun...	Palsonic ...	Warrant...	26890.0	43	<input checked="" type="checkbox"/>	#3N0DF...	<input type="checkbox"/>	14/01/20...
- Navigation Bar:** Buttons for 'Home', 'Appliance's Data', 'Register', and 'Search & Compare'.

Figure 36: category

The screenshot shows the 'Results' dialog box, which has a title bar with 'Results' and a close button. It contains an information icon and the following text:

Found 7 Home AV Appliances:

- Sony X750H 65-inch 4K Ultra HD LED TV (2020 Model) with S100F 2.0ch Soundbar with Bass Reflex Speaker
- Bose Home Speaker 300, with Amazon Alexa built-in, Silver
- NVIDIA SHIELD Android TV 4K HDR Streaming Media Player; High Performance, Dolby Vision, Google Assistant Built-In, Works with Alexa
- ViewSonic M1+ Portable Smart Wi-Fi Projector with Dual Harman Kardon Bluetooth Speakers HDMI USB Type C and Built-in Battery (M1PLUS)
- Edifier R1280T Powered Bookshelf Speakers - 2.0 Stereo Active Near Field Monitors - Studio Monitor Speaker - Wooden Enclosure - 42 Watts RMS
- TCL 32" 3-Series 720p Roku Smart TV
- Palsonic Australia 32" Full Hd Android Smart Led Tv

An 'OK' button is located at the bottom right of the dialog box.

Figure 37: a message of category

▪ Price:

Users can search the items based on a price range by selecting a category in search by a scrollbar. Users can set the price range of low to high with the desired

range of price. After clicking on the search button following details and messages of items are displayed.

The screenshot shows the 'Home Appliance IS' application window. On the left, there are search filters: 'Category' set to 'Home AV', 'Name' field, 'Price' range from '50000' to '150000', and 'Search By' set to 'Price'. There are 'Clear' and 'Search' buttons. On the right, there are fields for 'Appliance 1' and 'Appliance 2' IDs, and a 'Compare' button. Below these is a comparison table with columns 'Appliance 1', 'Vs', and 'Appliance 2'. At the bottom, a table lists search results with columns: Item ID, Name, Category, Sub-Cat..., Model N..., Weight, Brand, Service, Price, Stocks, Availability, SKU, Disconti..., and Register... The table contains two rows of data for items 973 and 975.

Item ID	Name	Category	Sub-Cat...	Model N...	Weight	Brand	Service	Price	Stocks	Availability	SKU	Disconti...	Register...
973	XHCP P...	Cleaning	Washing...	B089KF...	15.7 Lbs	XHCP	Warrant...	56099.99	21	<input checked="" type="checkbox"/>	#IMBKK...	<input type="checkbox"/>	15/01/20...
975	Arlo Pro ...	Smart H...	Security ...	VMS434...	4.66 pou...	Arlo	Warrant...	56099.99	36	<input checked="" type="checkbox"/>	#34ETA...	<input type="checkbox"/>	15/01/20...

Figure 38: price

The screenshot shows a 'Results' message box. It contains an information icon and text stating: 'Found 2 Appliances With Price Between 50000.0 & 150000.0 :'. Below this, it lists two items: '- XHCP Portable Washing Machine Portable Semiautomatic Washing Machine Portable Mini Laundry Washing Machine 9.9lbs Capacity Small Semi-Automatic Compact Washer for Apartment,RV,Traveling,White' and '- Arlo Pro 3 Spotlight Camera | 3 Camera Security System | Wire-Free, 2K Video & HDR | Color Night Vision, 2-Way Audio, 6-month battery life, 160° View | Works with Alexa | White | VMS4340P'. There is an 'OK' button at the bottom right.

Figure 39: a message of price

- **Name:**

Users can search the items based on a name by selecting a category in search by a scrollbar. The name of the item is to be entered in the name field. After clicking on the search button following details and messages of items are displayed.

The screenshot shows the 'Home Appliance IS' application window. It features a menu bar with 'File' and 'Help', and a title bar with 'testExcel.xlsx'. The main interface is divided into several sections:

- Search Filters:**
 - Category: Home AV (dropdown)
 - Name: palsonic (text input)
 - Price: From: (text input), To: (text input)
 - Search By: Name (dropdown)
 - Buttons: Clear, Search
- Comparison Section:**
 - Appliance 1: ID (text input)
 - Appliance 2: ID (text input)
 - Compare button
 - A large table area with columns 'Appliance 1', 'Vs', and 'Appliance 2'.
- Product Table:**

Item ID	Name	Category	Sub-Cat...	Model N...	Weight	Brand	Service	Price	Stocks	Availability	SKU	Disconti...	Register...
960	Palsonic ...	Home AV	Television	32QF7000	6.4 poun...	Palsonic ...	Warrant...	26890.0	43	<input checked="" type="checkbox"/>	#3N0DF...	<input type="checkbox"/>	14/01/20...
										<input type="checkbox"/>		<input type="checkbox"/>	
										<input type="checkbox"/>		<input type="checkbox"/>	
										<input type="checkbox"/>		<input type="checkbox"/>	
										<input type="checkbox"/>		<input type="checkbox"/>	
										<input type="checkbox"/>		<input type="checkbox"/>	
- Footer:** Home, Appliance's Data, Register, Search & Compare (tabs)

Figure 40: name

The screenshot shows a 'Results' dialog box with a close button (X) in the top right corner. It contains an information icon (i) and the following text:

Found 1 Appliances With Name "palsonic" :
- Palsonic Australia 32" Full Hd Android Smart Led Tv

An 'OK' button is located at the bottom right of the dialog box.

Figure 41: a message of name

- **Compare:**

Users can compare the appliance details by entering the model numbers of two items that are to be compared using the compare button.

Home Appliance IS

File Help testExcel.xlsx

Category : Home AV

Name :

Price

From:

To:

Search By:

Clear

Search

Appliance 1:

Appliance 2:

ID 965

ID 960

Compare

Appliance 1	Vs	Appliance 2
965	Appliance ID	960
Sony X750H 65-inch 4K Ultra HD LED ...	Appliance Name	Palsonic Australia 32" Full Hd Android S...
Home AV	Category	Home AV
Television	Sub-Category	Television
XBR55X900H	Model Number	32QF7000
46.3 pounds	Weight	6.4 pounds
Sony	Brand	Palsonic Australia
Warranty- 3 Year	Service	Warranty- 2 Year / Repair- 1 Year Brea...
489000.0	Price	26890.0
10	Stocks	43
false	Availability	true
#SXEBDDIEXXL	SKU	#3N0DFELTEFL
false	Discontinued	false
14/01/2021:Thu, 11:53 PM	Registered Date	14/01/2021:Thu, 10:29 PM

Item ID	Name	Category	Sub-Cat...	Model N...	Weight	Brand	Service	Price	Stocks	Availability	SKU	Disconti...	Register...

Home

Appliance's Data

Register

Search & Compare

Figure 42: compare

The End