

GitHub Link: <https://github.com/alpha01marco>



INT-301 (CA-3)

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6. Using desired Open Source Software provide details of the motherboard, network, storage devices, and display. Also, create an HTML report of everything and create favorites to have instant access to any hardware component from the menu bar.

Answer:

Introduction:

The purpose of using an open-source tool to scan the motherboard, network, storage devices, and display is to get detailed information about this hardware and to check whether the above-mentioned parts are properly functioning.

Methodology:

We began by installing an open source tool for hardware scanning i.e. Speccy.

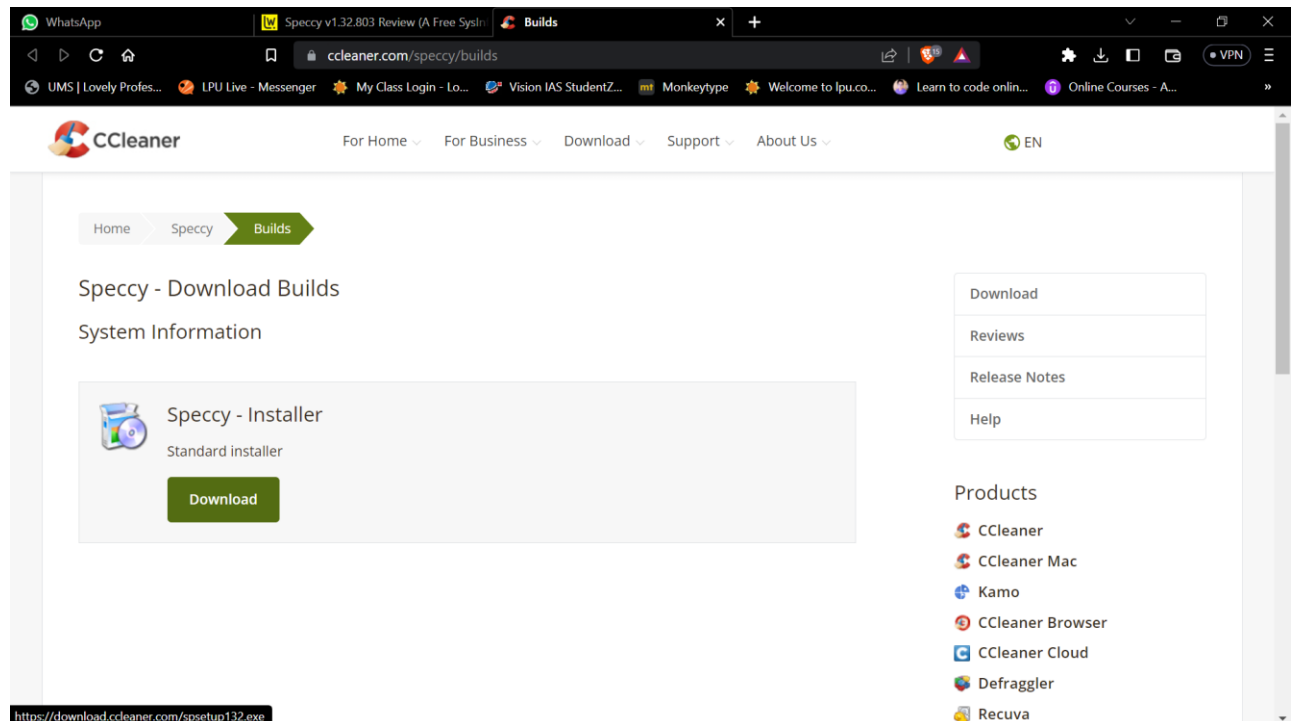
Speccy is a [free system information tool](#) from Piriform. With a simple design, portable support, and a detailed list of [hardware](#) and [software](#) components, it's the best system information utility available.

Advantages of Using Speccy:-

- Quick download and installation.
- Shows very detailed information for a wide variety of components.
- Includes a summary page.
- Can publish results to the web to get a public URL for sharing.
- Results can be copied, printed, or saved.
- Can be downloaded as a portable program.

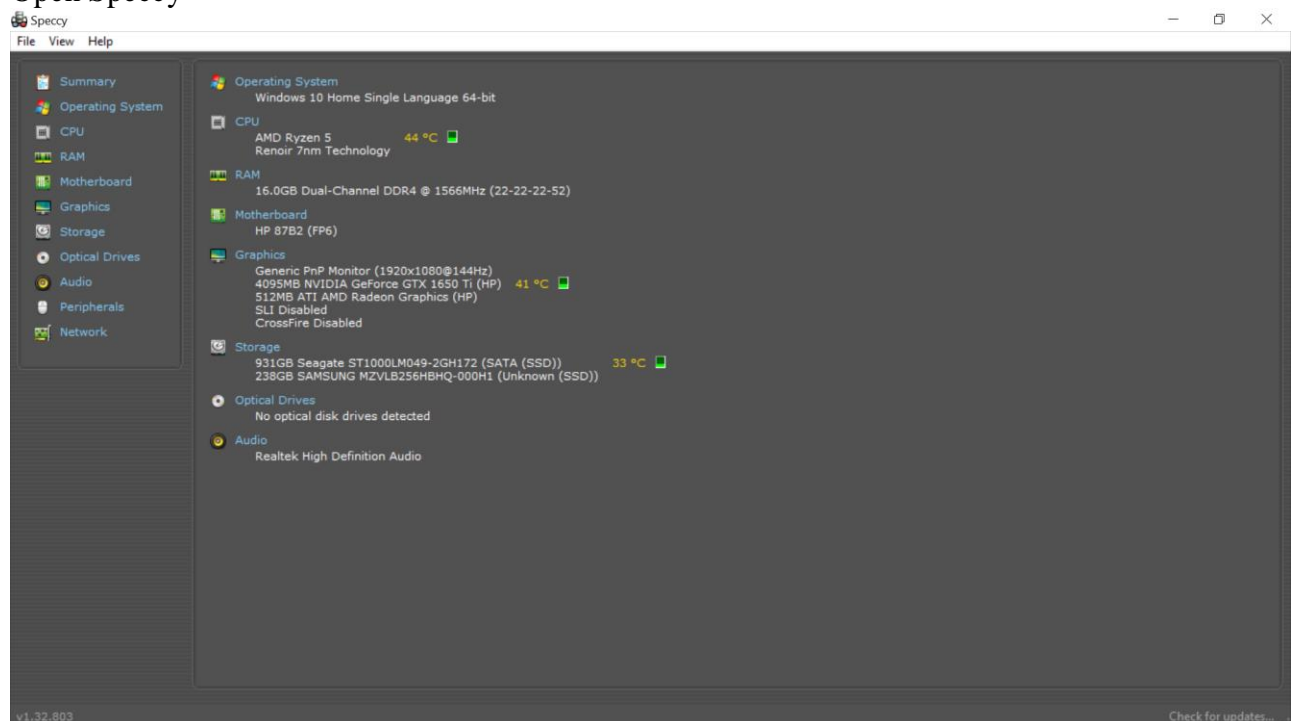
Step 1 –

Start by downloading and installing Speccy



Step 2 –

Open Speccy



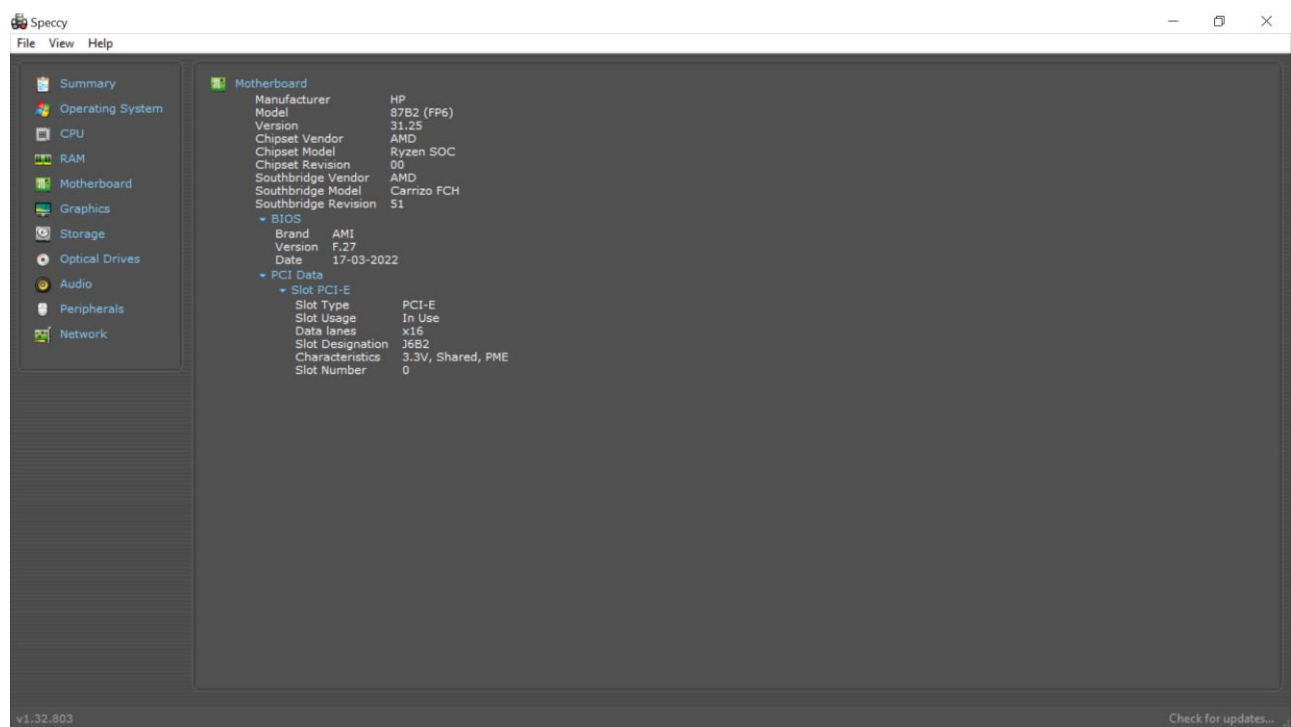
*It opens with a summary page.

Step 3 -

Continue clicking and opening various hardware options on left side to view detailed information.

Step 4 –

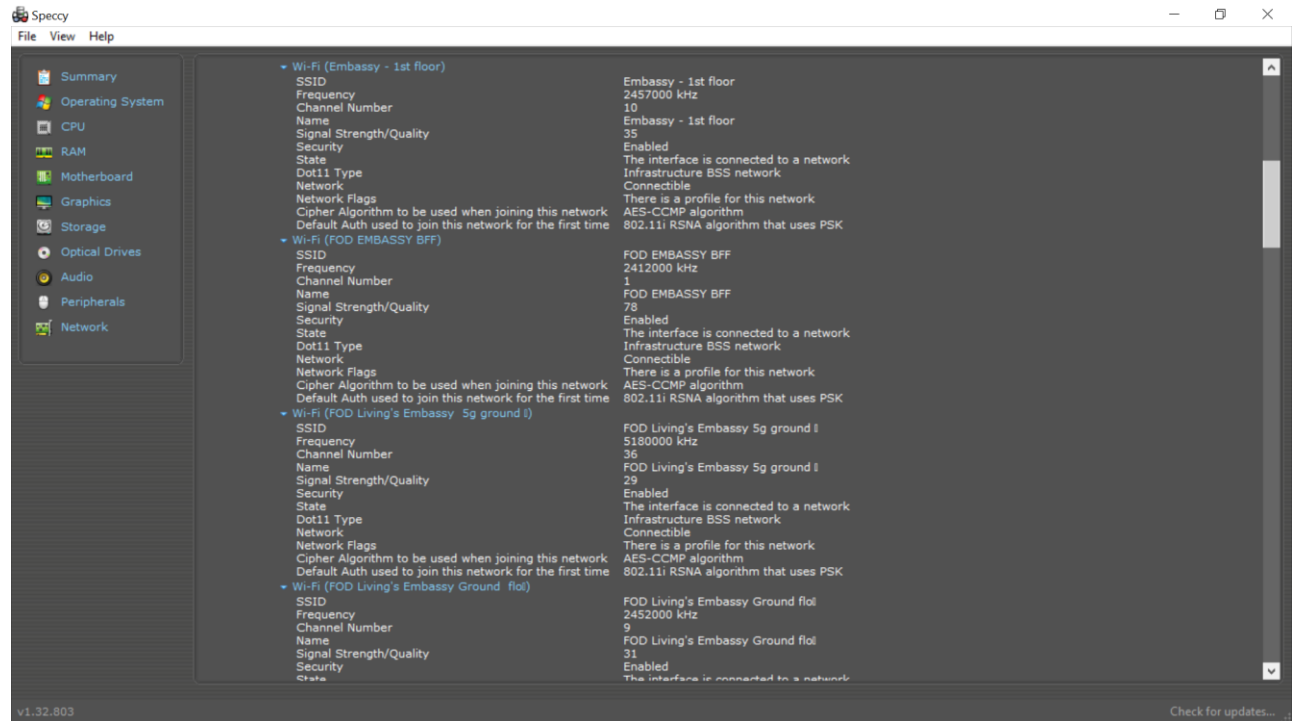
Information of Motherboard



All the details of Motherboard are visible.

Step 5 –

Information about Network



All the details of the Network Adapter along the info of available Wi-Fi Networks are visible.

Step 6 –

Information about Storage

Speccy v1.32.803

File View Help

Summary
Operating System
CPU
RAM
Motherboard
Graphics
Storage
Optical Drives
Audio
Peripherals
Network

Storage

Hard drives

ST1000LM049-2GH172 (SSD)

Manufacturer: Seagate
Heads: 16
Cylinders: 121,601
Tracks: 31,008,255
Sectors: 1,953,520,065
SATA type: SATA-III 6.0Gb/s
Device type: Fixed
ATA Standard: ACS3
Serial Number: WN92T3PX
Firmware Version Number: RPM2
LBA Size: 48-bit LBA
Power On Count: 2187 times
Power On Time: 148.0 days
Speed: 7200 RPM
Features: S.M.A.R.T., APM, NCQ, TRIM
Max. Transfer Mode: SATA III 6.0Gb/s
Used Transfer Mode: SATA III 6.0Gb/s
Interface: SATA
Capacity: 931 GB
Real size: 1,000,204,886,016 bytes
RAID Type: None

S.M.A.R.T.

Status: Good
Temperature: 33 °C
Temperature Range: OK (less than 50 °C)

S.M.A.R.T. attributes

Attribute name	Real value	Current	Worst	Threshold	Raw Value	Status
01 Read Error Rate	0	82	64	6	00092C2E65	Good
03 Spin-Up Time	0 ms	99	99	0	0000000000	Good
04 Start/Stop Count	29,328	72	72	0	0000007290	Good
05 Reallocated Sectors Count	0	100	100	36	0000000000	Good
07 Seek Error Rate	0	76	60	45	00022BB306	Good
09 Power-On Hours (POH)	148d 1h	96	96	0	0000000DE1	Good
0A Spin Retry Count	0	100	100	97	0000000000	Good
0C Device Power Cycle Count	2,187	98	98	0	000000088B	Good

Check for updates...

Speccy v1.32.803

File View Help

Summary
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Hard drives

SAMSUNG MZVLB256HBHQ-000H1 (SSD)

Manufacturer: SAMSUNG
Interface: Unknown
Capacity: 238 GB
Real size: 256,060,514,304 bytes
RAID Type: None

S.M.A.R.T.

S.M.A.R.T. not supported

Partition 0

Partition ID: Disk #0, Partition #0
Disk Letter: D:
File System: NTFS
Volume Serial Number: 2E5C204
Size: 931 GB
Used Space: 739 GB (79%)
Free Space: 192 GB (21%)

Partition 1

Partition ID: Disk #1, Partition #1
Disk Letter: C:
File System: NTFS
Volume Serial Number: F8BAC727
Size: 237 GB
Used Space: 122 GB (51%)
Free Space: 115 GB (49%)

Partition 2

Partition ID: Disk #1, Partition #2
File System: NTFS
Volume Serial Number: 6C8E5B64
Size: 590 MB
Used Space: 437 MB (74%)
Free Space: 153 MB (26%)

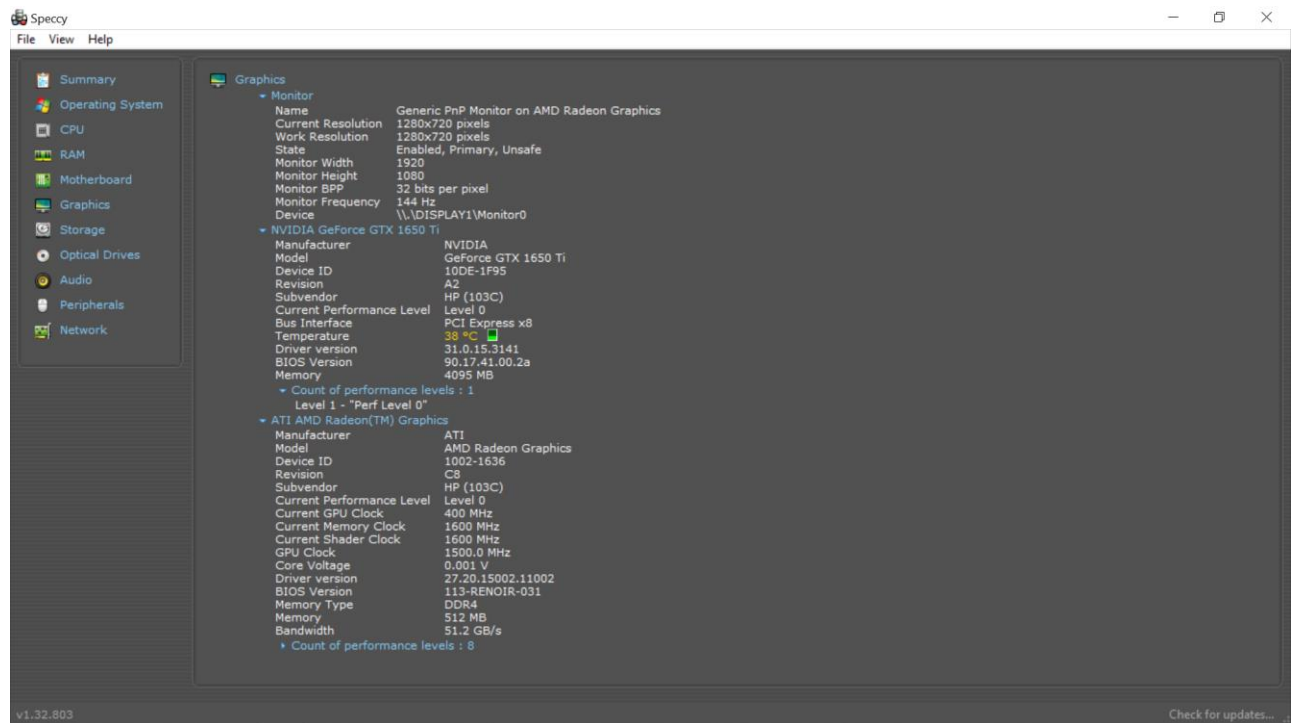
Attribute name	Real value	Current	Worst	Threshold	Raw Value	Status
C5 Current Pending Sector Count	0	100	100	0	0000000000	Good
C6 Uncorrectable Sector Count	0	100	100	0	0000000000	Good
C7 UltraDMA CRC Error Count	0	100	100	0	0000000000	Good
FE Free Fall Protection	0	100	100	0	0000000000	Good

Check for updates...

All the information about the storage devices is available.

Step 7 –

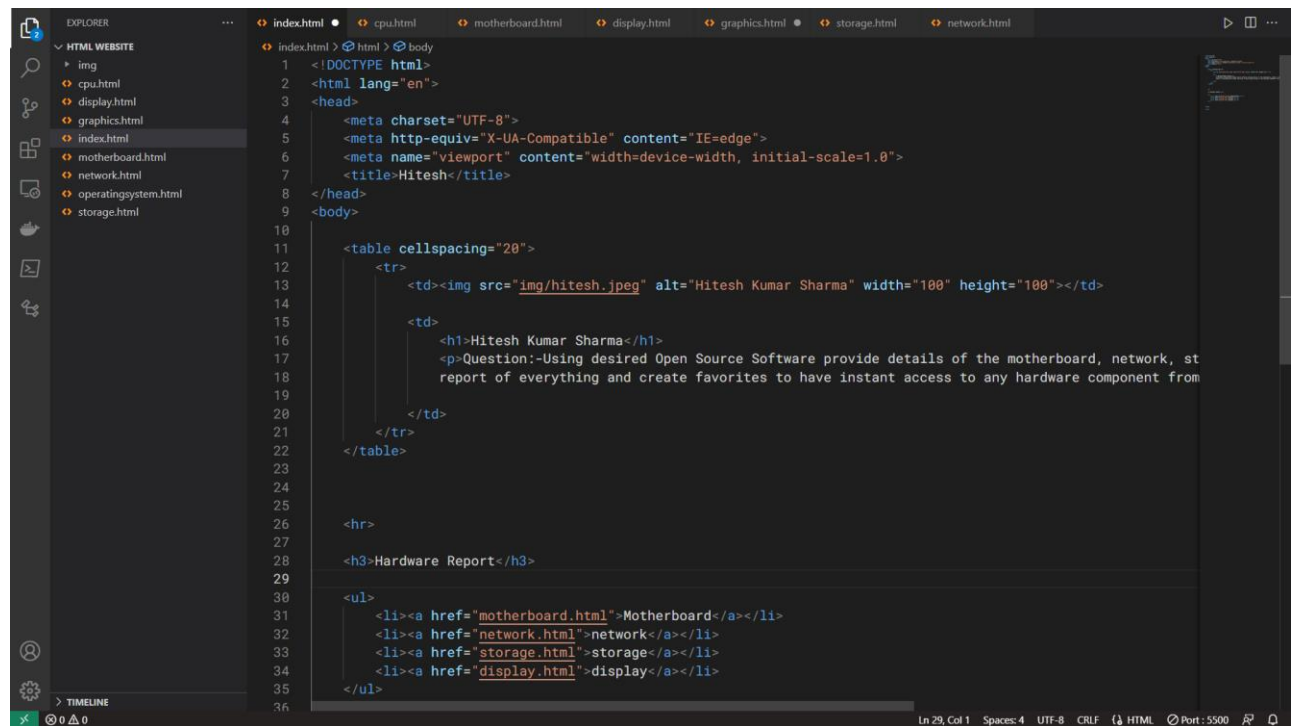
Information about Display



All the information about the Display and the Graphics card are available.

Step 7 –

Creating an HTML Report



Step 8 –

Uploading the project to github.com

