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Course: Introduction to Information Technology   Date: 29/10/2025

Project #1

Name:**...**طارق محمد خميس احمد**...**   ID №: ....202511528....   PC №: ....

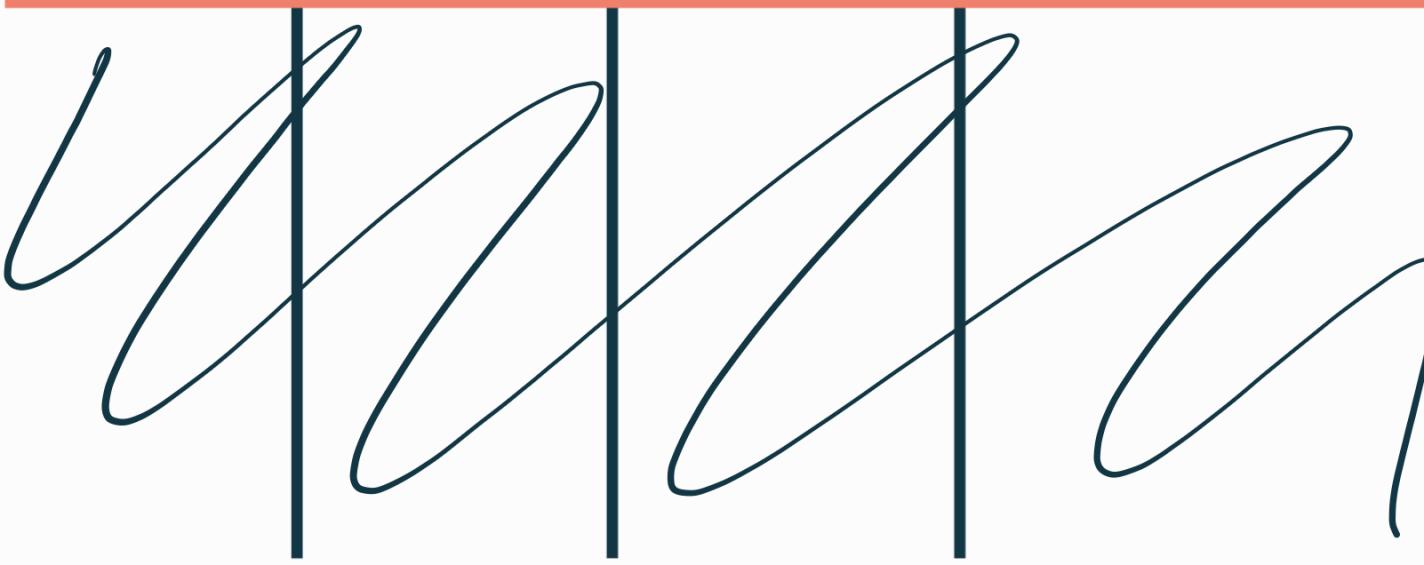**Task: Use the Internet to gather information about the components you will need to complete your computer. Be prepared to discuss your selections.**

Hardware Component	Specifications	Estimated US Cost. in USD	Justification (why you chose it?)
CPU (Processor)	AMD Ryzen 5 9600X 6 Cores, 12 Threads, Zen 5 Architecture, AM5 Socket, 65W TDP.	$196	This is a highly efficient, latest-generation Zen 5 CPU, offering excellent single-core speed vital for high-FPS gaming. It provides maximum gaming performance for its price point and supports the modern AM5 platform for future upgrades.
GPU (Video Card)	NVIDIA GeForce RTX 5070 (12GB) 12GB GDDR7 VRAM, PCIe 5.0, Latest Blackwell Architecture, Supports Ray Tracing & DLSS	$539	The GPU is the most critical component for gaming. The RTX 5070 is a powerful, current-generation card, perfectly matched with the R5 9600X to prevent CPU bottlenecking. Its 12GB of GDDR7 VRAM ensures smooth high-setting gameplay at 1440p resolution for years to come

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Component	Specification	Price	Description
Motherboard	Gigabyte B850 Eagle WIFI6E AMD B850 Chipset, ATX Form Factor, DDR5 Support, Wi-Fi 6E, PCIe 5.0 x16 slot.	$170	A robust B850 chipset board providing essential features for a modern system: DDR5 support, built-in Wi-Fi 6E, and a PCIe Gen 5 slot for the high-end GPU. The ATX size allows for easy cable management and accommodates large components.
RAM (Memory)	Crucial Pro 32GB (2x16GB) DDR5-6000 32GB Total, 2x16GB sticks, DDR5-6000 MT/s Speed, CL30 Low Latency.	$145	32GB is the modern standard for serious gaming and multitasking. Using two sticks (2x16GB) ensures optimal dual-channel performance, and the DDR5-6000 speed is the current "sweet spot" for AMD Ryzen CPUs .
Storage (SSD)	Lexar NM790 2TB NVMe SSD 2TB Capacity, NVMe PCIe 4.0 Interface, Read/ Writespeeds up to 7400 MB/s.	$120	An NVMe SSD is mandatory for fast boot times and rapid loading of the operating system and games. 2TB provides ample space for a large game library and is the standard for modern high-performance builds .
PSU (Power Supply)	Seasonic Core V2 GX-650 650 Watts, 80+ Gold Certified, Fully Modular.	$100	Provides a reliable and efficient power delivery (80+ Gold certified). 650W is sufficient power for the selected CPU and GPU, while the fully modular design simplifies cable management and improves airflow within the case.

Case	Lian Li Lancool 207 Mid-Tower ATX, High Airflow Mesh Panels, Tempered Glass Side Panel.	$90	A high-airflow case is crucial for keeping modern components cool. The Mid-Tower form factor ensures all selected parts fit, including the large GPU and cooler.
CPU Cooler	Thermalright Phantom Spirit 120SE Dual Tower Air Cooler, 7 Heat Pipes, 120mm Fan.	$35	The R5 9600X does not include a cooler, and an aftermarket cooler is needed for optimal performance. This model is a highly-rated, high-value air cooler that performs as well as many expensive liquid coolers, ensuring the CPU runs cool and boosts to its highest speeds .

Total Estimated Cost
1,395 USD OR 989.06 Jordanian Dinar

Note:some parts may not be available in jordan