

We(U)BuildIt

A personalized PC/Laptop Builder

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BE CSE G1

Problem Statement

The market lacks a comprehensive web-based platform for customizing desktop PCs and laptops. Tech enthusiasts and professionals need tailored solutions for their unique requirements, but currently, there is no centralized, user-friendly platform for designing, configuring, and purchasing specialized computing equipment. "We(U)BuildIt" aims to fill this gap with a website focused on personalizing desktops and laptops, offering an easy-to-use interface for selecting compatible parts for optimal performance. This initiative strives to simplify the PC and laptop personalization process and enhance the overall shopping experience, catering to the diverse needs of modern, tech-savvy consumers.

Technical Stack Used

HTML

CSS

Javascript

Phases

- • Creating A Simple Webpage Using HTML
- • Enhancing The Website By Adding Of Images, Hyperlinks, Forms And Videos In HTML.
- • Add A Cascading Style Sheet For Designing The Web Page.
- • Design a dynamic web page with validation using JavaScript
- • Using servlets for webpage.

Phase – 1

Creating A Simple Webpage Using HTML

We(U)BuildIt

An online site for builing customised PC - Laptops

Select Processor: <--Select your choice-->

Select Graphics Card: <--Select your choice-->

Select Motherboard: <--Select your choice-->

Select RAM: <--Select your choice-->

Select SSD: <--Select your choice-->

Select HDD: <--Select your choice-->

Select Power Supply: <--Select your choice-->

Select PC Case: <--Select your choice-->

Select CPU Cooler: <--Select your choice-->

Select Case Fans: <--Select your choice-->

Additional Specifications:
Enter additional specifications here...

We(U)BuildIt

An online site for builing customised PC - Laptops

Select Processor: AMD Ryzen 5 3600

Select Graphics Card: AMD Radeon RX 5500 XT

Select Motherboard: ASUS Prime B460M-A

Select RAM: Corsair Vengeance LPX 16GB

Select SSD: WD Black SN750 NVMe M.2 1TB

Select HDD: Seagate Barracuda 2TB 7200 RPM

Select Power Supply:
Corsair CV550, 80 PLUS BRONZE Certified, 550 Watt

Select PC Case: Cooler Master MasterBox Q300L

Select CPU Cooler: DEEPCOOL GAMMAXX 400 V2

Select Case Fans: Corsair LL120 RGB

Additional Specifications:
Need Mouseand keyboard along with it

Processor: ryzen3600 - ₹18000

Graphics Card: rx5500xt - ₹18000

Motherboard: b460 - ₹10000

RAM: ram1 - ₹8000

SSD: ssd4 - ₹16000

HDD: hdd1 - ₹7000

Power Supply: psu2 - ₹5000

PC Case: case2 - ₹5000

CPU Cooler: cooler2 - ₹3500

Case Fans: fans3 - ₹3500

Additional Specifications: Need Mouseand keyboard along with it

Total Price: ₹94000

Total Price: ₹94000

Generate Bill

Generate Bill

Phase – 2

Enhancing The Website By Adding Of Images, Hyperlinks, Forms And Videos In HTML.

We(U)BuildIt

An online site for builing customised PC - Laptops

Select Processor:

Select Graphics Card:

... (partial view of other components)

Select RAM:

Select Power Supply:

Select PC Case:

Select SSD:

Seagate FireCuda 530 2TB
Solid State Drive
Interface: NVMe PCIe 4.0 x4
Read/write speed: 7,300 / 6,900 MB/s
Random read/write speed: 1M / 1M IOPS
DRAM cache: 20GB
TLC
Capacity: 2000GB (model dependent)
Write endurance: 2500TB
Warranty: 5 years

... (partial view of other components)

Phase – 2 (continued)

Enhancing The Website By Adding Of Images, Hyperlinks, Forms And Videos In HTML..

Select HDD:

Warranty: 5 years

Additional Specifications:
Mouse , Keyboard , Monitor

Generate Bill

Your Custom PC Configuration

Processor: ryzen5900x
Graphics Card: 7600xt
Motherboard: b550
RAM: ram4
SSD: ssd2
HDD: hdd3
Power Supply (PSU): psu3
PC Case: case2
Additional Specifications: Mouse , Keyboard , Monitor
Total Cost: ₹168000

Contact Us

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PSG COLLEGE OF TECHNOLOGY

Location :

Phase – 3

Add A Cascading Style Sheet For Designing The Web Page.

We(U)BuildIt
An online site for building customized PC - Laptops

Select Processor:

Select Graphics Card:

The screenshot shows a dark-themed web interface for building PCs or laptops. At the top, there's a large 3D-style globe centered on a grid. Below it, sections for selecting a processor (showing various AMD and Intel options) and a graphics card (showing various NVIDIA RTX models). The overall design is clean with a modern aesthetic.

Select RAM:

Select Power Supply:

Select PC Case:

Select SSD:

Seagate FireCuda 530 NVMe
Capacity up to 4TB
Interface: PCIe Gen4 x4
Read/write speed: 7,300 / 6,900 MB/s
Random access speed: 1M / 1M IOPS
DRAM cache: 2GB DDR4
SLC cache: up to 450GB (model dependent)
Write endurance: 250TB
Warranty: 5 years

The screenshot shows a continuation of the web application's configuration interface. It includes sections for selecting RAM, power supplies, PC cases, and SSDs. Each section displays multiple options with small images and labels. A detailed description of the selected Seagate FireCuda 530 NVMe SSD is shown on the right side of the screen.

Phase – 3 (continued)

Add A Cascading Style Sheet For Designing The Web Page.

Select HDD:

Select Power Supply:

Select PC Case:

Additional Specifications:

Generate Bill

Your Custom PC Configuration

Processor: AMD Ryzen 9 5900X : ₹32000

Graphics Card: AMD Radeon RX 7600 XT : ₹30000

Motherboard: Asus ROG Strix B550-F Gaming Wi-Fi : ₹24000

RAM: Corsair Vengeance LED 16GB Kit (2 x 8GB) : ₹9000

SSD: Kingston Fury Renegade 2TB : ₹25000

HDD: Toshiba P300 2TB : ₹11000

Power Supply (PSU): XPG Pylon 450 : 5000

PC Case: Corsair Obsidian 1000D : ₹45000

Additional Specifications: ₹mouse

Total Cost: ₹181000

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Contact Us
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Location :

View larger map

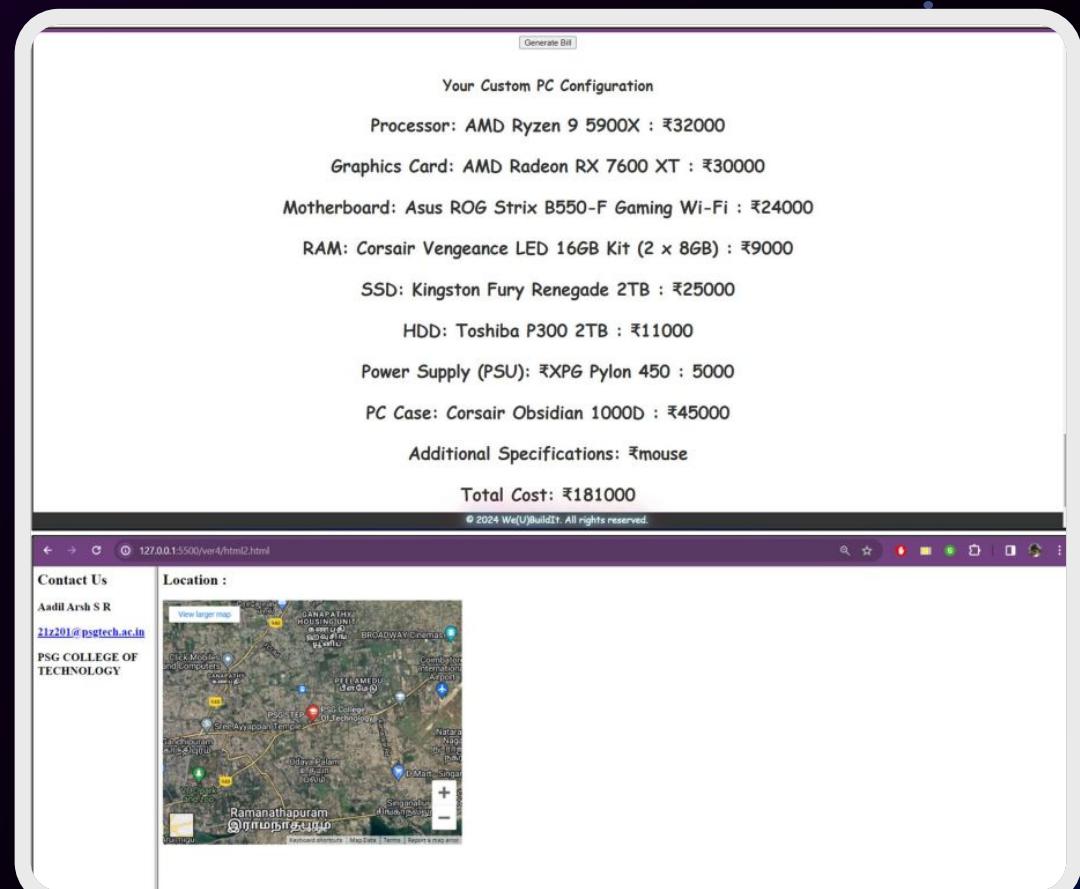
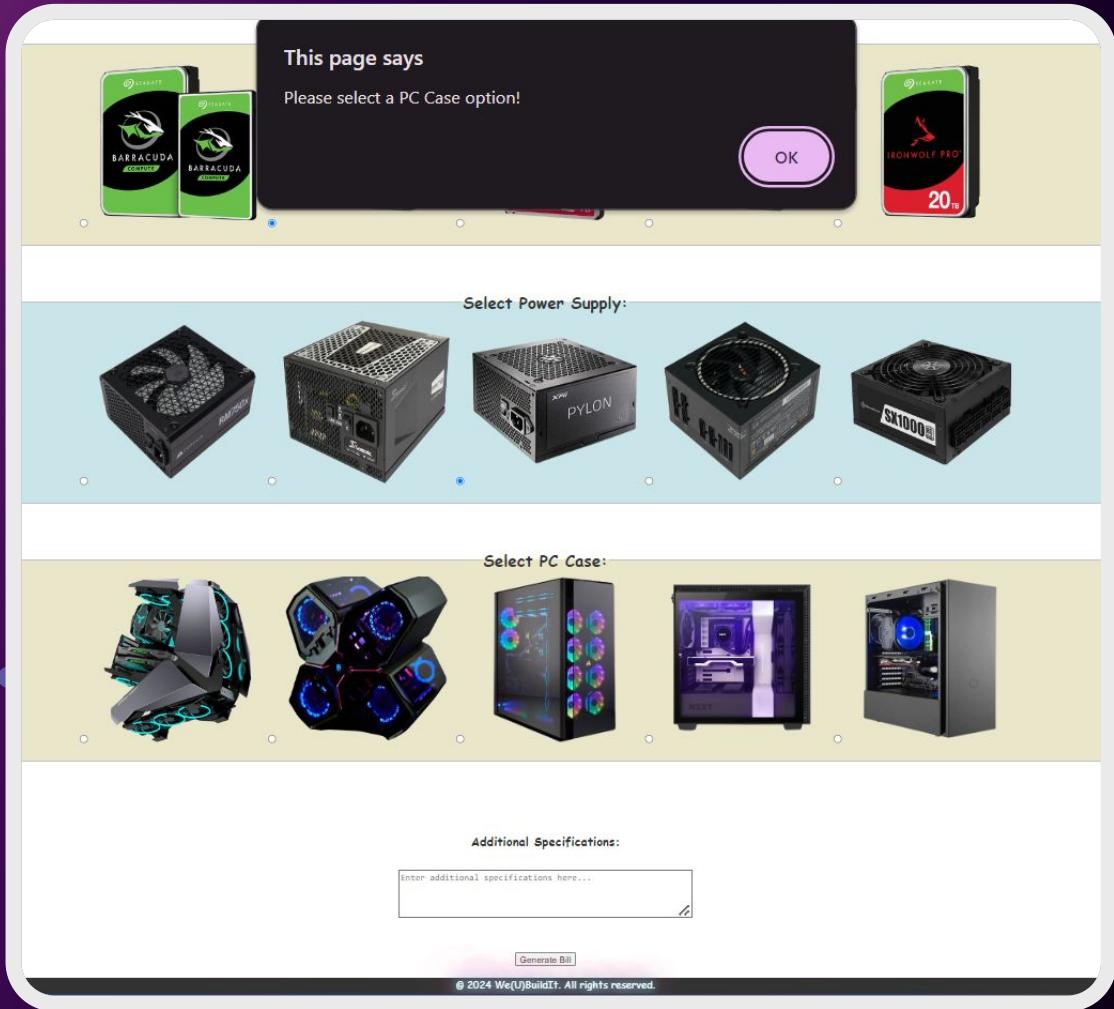
Phase – 4

Design a dynamic web page with validation using JavaScript (included validation in the code)



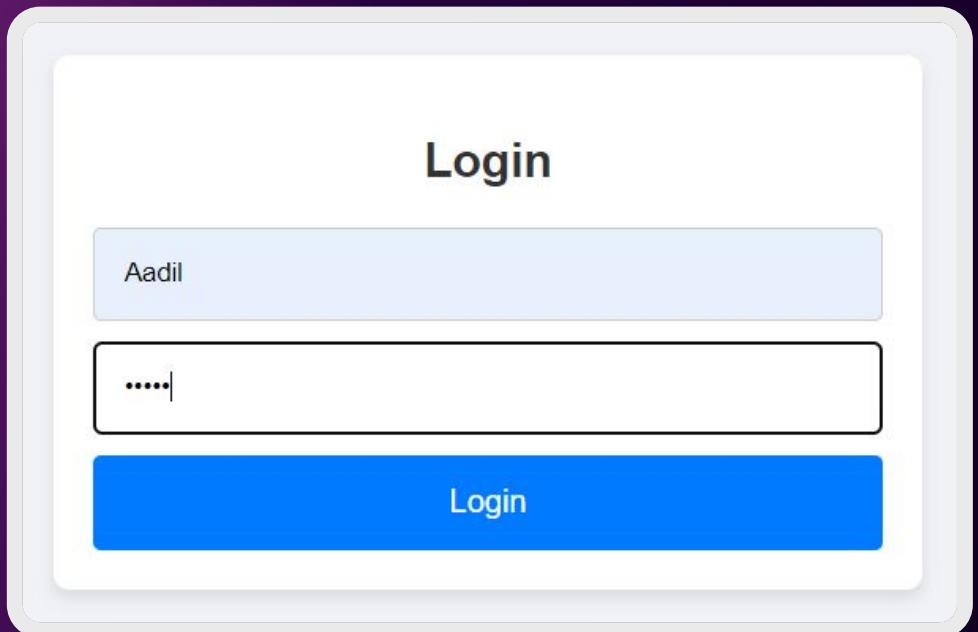
Phase – 4 (continued)

Design a dynamic web page with validation using JavaScript (included validation in the code)



Phase – 5

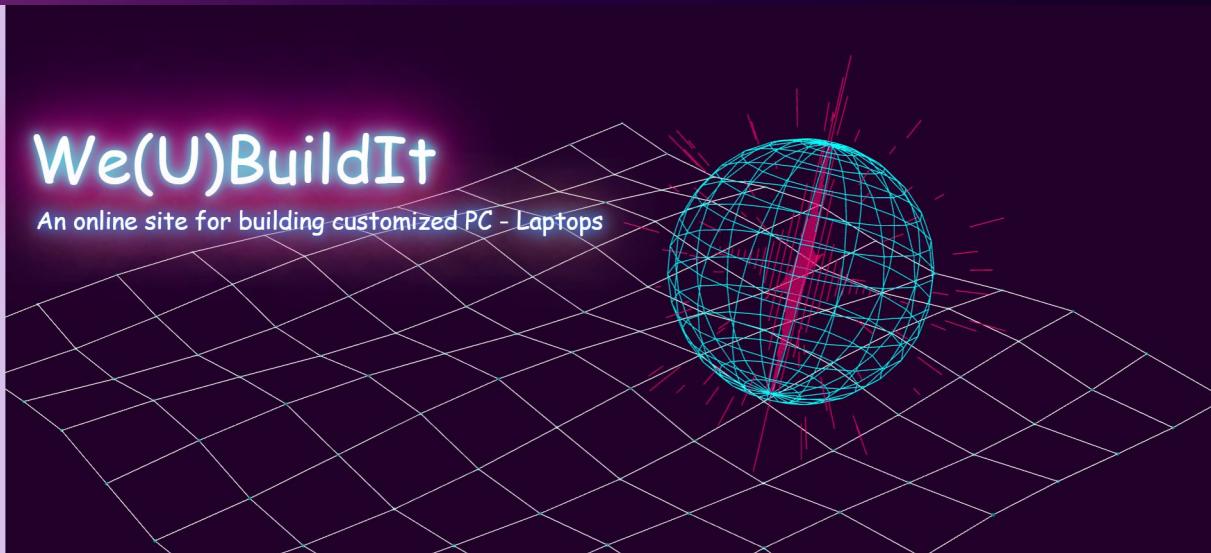
Using servlets for webpage



```
* Serving Flask app 'app'  
* Debug mode: on  
WARNING: This is a development server. Do not use it in a production deployment.  
* Running on http://127.0.0.1:5000  
Press CTRL+C to quit  
* Restarting with stat  
* Debugger is active!  
* Debugger PIN: 110-953-327
```

Phase – 5 (continued)

Using servlets for webpage



Welcome, Aadil! Customize Your PC

Select Processor:



Select Graphics Card:



Select HDD:

A row of five hard drive models: Seagate Barracuda, WD Black, Toshiba PC P300, WD Blue, and Seagate IronWolf Pro.

Select Power Supply:

A row of five power supply units: EVGA P500, EVGA P450, EVGA Pylon, EVGA SK1000, and EVGA SK1000.

Select PC Case:

A row of five computer cases: NZXT H510, NZXT H510, NZXT H510, NZXT H510, and NZXT H510.

Additional Specifications:

mouse

Phase – 5 (continued)

Using servlets for webpage

Component	Selection	Price (₹)
Processor	ryzen5900x	₹32000
Graphicscard	7600xt	₹30000
Motherboard	b550	₹24000
Ram	ram3	₹9000
Ssd	ssd3	₹25000
Hdd	hdd3	₹11000
Psu	psu3	₹5000
Pccase	case3	₹45000
Additionalspecs	Mouse	₹To be informed later
Total Cost		₹181000

Print 1 sheet of paper

Destination: Microsoft Print to PDF

Pages: All

Layout: Portrait

Color: Color

More settings

Bill Summary for Aadil

Component	Selection	Price (₹)
Processor	ryzen5900x	₹32000
Graphicscard	7600xt	₹30000
Motherboard	b550	₹24000
Ram	ram3	₹9000
Ssd	ssd3	₹25000
Hdd	hdd3	₹11000
Psu	psu3	₹5000
Pccase	case3	₹45000
Additionalspecs	Mouse	₹To be informed later
Total Cost		₹181000

Print Bill

Bill Summary for Aadil

Component	Selection	Price (₹)
Processor	ryzen5900x	₹32000
Graphicscard	7600xt	₹30000
Motherboard	b550	₹24000
Ram	ram3	₹9000
Ssd	ssd3	₹25000
Hdd	hdd3	₹11000
Psu	psu3	₹5000
Pccase	case3	₹45000
Additionalspecs	Mouse	₹To be informed later
Total Cost		₹181000

Print Bill

Thank you

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