

# System Configuration

## 1. Introduction

This document provides details about the system configuration for each department. It ensures a clear understanding of the system's environment for deployment, development, or operation.

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## 2. Purpose

The purpose of this document is to outline the **minimum and maximum system requirements** for various departments in our organization. It serves several key purposes:

1. **Standardization:** Ensures all departments are equipped with laptops that meet the high-performance demands of their specific tasks, maintaining consistency across the organization.
  2. **Cost-Effectiveness:** Guides purchasing decisions by balancing the need for performance with the budgetary constraints of each department. By providing minimum and maximum configuration options, the document helps ensure departments get the most appropriate systems for their needs without overspending.
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## 3. Our Provided System Configuration

Department	Name	RAM	Processor	Storage	Graphics
HR (ACER)	Asmita Patil	8GB	Intel Celeron	256GB SSD	Intel UHD 4GB
Associate Business Consultant (MSI)	Nikita Nikhare	8GB	Intel i3 11 Gen	512GB SSD	Intel UHD 4GB
Business Associate (HP)	Divya Umredkar	8GB	Intel i5 6 Gen	256GB SSD	Intel UHD 4GB
Android Developer (Asus)	Sagar Gaydhane	8GB	Intel i5 11 Gen	256GB SSD + 1TB HDD	Intel UHD 4GB
Android Developer (Dell, Personal Laptop)	Tanmay Khotele	8GB	Intel i5 6 Gen	256GB SSD	Intel UHD 4GB

Laravel Developer(ACER)	Nikita Katakwar	8GB	Intel i3 11 Gen	512GB SSD	Intel UHD 4GB
Integration Developer (HP)	Sairitik Naidu	8GB	Intel i5 2 Gen	512GB HDD + 256 SSD	No
Java Developer (Dell)	Shrunkhal Pimpalshende	8GB	Intel i3 10 Gen	256GB SSD + 1TB HDD	Intel UHD 4GB
Java Developer (MSI)	Ajay Hedau	8 GB	Intel i5 10 Gen	512GB SSD	Intel UHD 4GB
MERN Stack Developer (Dell)	Medha Umredkar	8GB	Intel i5 7 Gen	256GB SSD	Intel UHD 4GB
PHP Developer (HP)	Rishiraj Korde	8GB	Intel i5 4 Gen	128GB SSD + 512GB HDD	Intel UHD 4GB
Tester (Lenovo)	Raunak Sirsam	8 GB	Intel i5 6200U	120GB SSD + 1TB HDD	Intel UHD 4GB
Devops (HP)	Lalit Tembhare	8GB	Intel i5 6 Gen	256GB SSD	Intel UHD 4GB

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#### 4. System Configuration according to department

##### 1. HR and Administrative and Business Team

Tasks: Data entry, payroll, and administrative/business related work & client interaction.

***Minimum Configuration:***

- **Processor:** Intel i3 (10th Gen or newer) / AMD Ryzen 3.
- **RAM:** 8 GB.
- **Storage:** 256 GB SSD.
- **Graphics:** Integrated GPU.
- **OS:** Windows 10.

***Maximum Configuration:***

- **Processor:** Intel i7 (11th Gen or newer) / AMD Ryzen 7.
- **RAM:** 16 GB.
- **Storage:** 1 TB SSD.

- **Graphics:** Integrated or entry-level dedicated GPU.
- **OS:** Windows 11 Pro.

## 2. **Marketing & Sales Team**

Tasks: Managing campaigns, basic analytics, and client communication.

### ***Minimum Configuration:***

- **Processor:** Intel i3 (10th Gen or newer) / AMD Ryzen 3.
- **RAM:** 8 GB.
- **Storage:** 256 GB SSD.
- **Graphics:** Integrated GPU.
- **OS:** Windows 10.

### ***Maximum Configuration:***

- **Processor:** Intel i7 (11th Gen or newer) / AMD Ryzen 7.
- **RAM:** 16 GB.
- **Storage:** 1 TB SSD.
- **Graphics:** NVIDIA GTX 1650 or higher.
- **OS:** Windows 11 Pro / macOS.

## 3. **Design Team**

Tasks: High-resolution graphic design, image editing, video editing, and animation.

### ***Minimum Configuration:***

- **Processor:** Intel i5 (10th Gen or newer) / AMD Ryzen 5.
- **RAM:** 8 GB.
- **Storage:** 512 GB SSD.
- **Graphics:** Integrated GPU.
- **OS:** Windows 10.

### ***Maximum Configuration:***

- **Processor:** Intel i9 (12th Gen or newer) / AMD Ryzen 9.
- **RAM:** 64 GB.
- **Storage:** 2 TB SSD.
- **Graphics:** NVIDIA RTX 4070 or higher
- **OS:** Windows 11 Pro / macOS.

#### 4. Development Team

Tasks: Coding, testing, Documentation, debugging & client interaction.

- **Android Developer**

***Minimum Configuration:***

- **Processor:** Intel i5 (10th Gen or newer) / AMD Ryzen 5.
- **RAM:** 16 GB.
- **Storage:** 512 GB SSD.
- **Graphics:** Integrated GPU.
- **OS:** Windows 10

***Maximum Configuration:***

- **Processor:** Intel i7/i9 (12th Gen or newer) / AMD Ryzen 7/9.
- **RAM:** 32 GB.
- **Storage:** 1 TB SSD.
- **Graphics:** NVIDIA RTX 3050 or higher (for rendering tasks).
- **OS:** Windows 11 Pro / macOS.

- **Flutter Developer**

***Minimum Configuration:***

- **Processor:** Intel i5 (10th Gen or newer) / AMD Ryzen 5.
- **RAM:** 16 GB.
- **Storage:** 512 GB SSD.
- **Graphics:** Integrated GPU.
- **OS:** Windows 10

***Maximum Configuration:***

- **Processor:** Intel i7 (12th Gen or newer) / AMD Ryzen 7.
- **RAM:** 32 GB.
- **Storage:** 1 TB SSD.
- **Graphics:** Dedicated GPU (NVIDIA RTX 3050 or higher).
- **OS:** Windows 11 Pro / macOS.

- **Java Developer**

***Minimum Configuration:***

- **Processor:** Intel i5 (10th Gen or newer) / AMD Ryzen 5.
- **RAM:** 16 GB.
- **Storage:** 512 GB SSD.
- **Graphics:** Integrated GPU.
- **OS:** Windows 10, Linux

***Maximum Configuration:***

- **Processor:** Intel i7/i9 (12th Gen or newer) / AMD Ryzen 7/9.
- **RAM:** 32 GB.
- **Storage:** 1 TB SSD.
- **Graphics:** NVIDIA RTX 3050 or higher.
- **OS:** Windows 11 Pro / Linux.

- **MERN Stack Developer**

***Minimum Configuration:***

- **Processor:** Intel i5 (10th Gen or newer) / AMD Ryzen 5.
- **RAM:** 8 GB.
- **Storage:** 512 GB SSD.
- **Graphics:** Integrated GPU.
- **OS:** Windows 10, Linux

***Maximum Configuration:***

- **Processor:** Intel i7/i9 (12th Gen or newer) / AMD Ryzen 7/9.
- **RAM:** 16 GB.
- **Storage:** 1 TB SSD.
- **Graphics:** Integrated or entry-level dedicated GPU.
- **OS:** Windows 11 Pro / Linux.

- **Python Developer**

***Minimum Configuration:***

- **Processor:** Intel i5 (10th Gen or newer) / AMD Ryzen 5.
- **RAM:** 16 GB.

- **Storage:** 512 GB SSD.
- **Graphics:** Integrated GPU.
- **OS:** Windows 10, Linux

***Maximum Configuration:***

- **Processor:** Intel i9 (12th Gen or newer) / AMD Ryzen 9.
- **RAM:** 32 GB or 64 GB (for AI/ML tasks).
- **Storage:** 2 TB SSD.
- **Graphics:** NVIDIA RTX 3060 or higher (for AI/ML tasks)..
- **OS:** Windows 11 Pro / Linux.

- **PHP/Laravel Developer**

***Minimum Configuration:***

- **Processor:** Intel i5 (10th Gen or newer) / AMD Ryzen 5.
- **RAM:** 8 GB.
- **Storage:** 512 GB SSD.
- **Graphics:** Integrated GPU.
- **OS:** Windows 10, Linux

***Maximum Configuration:***

- **Processor:** Intel i7 (12th Gen or newer) / AMD Ryzen 7.
- **RAM:** 16 GB
- **Storage:** 1 TB SSD.
- **Graphics:** Integrated GPU.
- **OS:** Windows 11 Pro / Linux.

## **5. DevOps Engineer Team**

**Tasks:** CI/CD pipeline setup, server management, and automation.

***Minimum Configuration:***

- **Processor:** Intel i5 (10th Gen or newer) / AMD Ryzen 5.
- **RAM:** 16 GB.
- **Storage:** 512 GB SSD.
- **Graphics:** Integrated GPU.
- **OS:** Windows 10.

***Maximum Configuration:***

- **Processor:** Intel i7/i9 (12th Gen or newer) / AMD Ryzen 7/9.
- **RAM:** 64 GB.
- **Storage:** 2 TB SSD.
- **Graphics:** NVIDIA RTX 3060 or higher
- **OS:** Windows 11 Pro / Linux

**6. Tester Team**

Tasks: Manual and Automated Testing.

***Minimum Configuration:***

- **Processor:** Intel i5 (10th Gen or newer) / AMD Ryzen 5.
- **RAM:** 8 GB.
- **Storage:** 256 GB SSD.
- **Graphics:** Integrated GPU.
- **OS:** Windows 10.

***Maximum Configuration:***

- **Processor:** Intel i7/i9 (12th Gen or newer) / AMD Ryzen 7/9.
- **RAM:** 16 GB.
- **Storage:** 1 TB SSD.
- **Graphics:** Integrated GPU (NVIDIA RTX 3050 or higher).
- **OS:** Windows 11 Pro / Linux

**7. Data Science & Analytics Team**

Tasks: Data analysis, report generation, datasets, running AI/ML models, and visualization.

***Minimum Configuration:***

- **Processor:** Intel i5 (10th Gen or newer) / AMD Ryzen 5.
- **RAM:** 16 GB.
- **Storage:** 512 GB SSD.
- **Graphics:** Integrated GPU.
- **OS:** Windows 10.

***Maximum Configuration:***

- **Processor:** Intel i9 (12th Gen or newer) / AMD Ryzen 9.
- **RAM:** 64 GB.
- **Storage:** 2 TB SSD.
- **Graphics:** NVIDIA RTX 4060 or higher.
- **OS:** Windows 11 Pro / Linux

## 8. **Support Team**

Tasks: Ticket handling, communication, and client interaction.

### ***Minimum Configuration:***

- **Processor:** Intel i3 (10th Gen or newer) / AMD Ryzen 3.
- **RAM:** 8 GB.
- **Storage:** 256 GB SSD.
- **Graphics:** Integrated GPU.
- **OS:** Windows 10.

### ***Maximum Configuration:***

- **Processor:** Intel i7/i9 (12th Gen or newer) / AMD Ryzen 7/9.
- **RAM:** 16 GB.
- **Storage:** 512 GB SSD.
- **Graphics:** Integrated GPU
- **OS:** Windows 11 Pro

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## 5. **Conclusion**

As per my observation

- **Laravel Developer (Nikita Katakwar)**
  - The laptop has proper system configuration as per the requirements for their position.
- **Associate Business Consultant (Nikita Nikhare)**
  - Does not require a system with a **512GB SSD**.
  - It is recommended to exchange her laptop with **Rishi** (PHP Developer), as it matches the system configuration requirements for a PHP Developer.
- **Other System requirement change as per their need as follows:**
  - **Android Developer (Sagar)**
    - Upgrade to **16GB RAM** and **512GB SSD**.
  - **Java Developers (Shrunkhal, Ajay)**



- Upgrade to **16GB RAM** and **512GB SSD**.
- **Integration Developer (Sairitik)**
  - Upgrade to **16GB RAM** and **512GB SSD**.
- **PHP Developer (Rishi)**
  - Upgrade to **512GB SSD**.
- **DevOps (Lalit)**
  - Upgrade to **16GB RAM** and **512GB SSD**.
- **MERN Stack Developer (Medha)**
  - Upgrade to **512GB SSD**.
- **Tester (Raunak)**
  - Upgrade to **256GB SSD**.

Note : Assign a laptop with the proper configuration (**16GB RAM** and **512GB SSD**) to **Integration Developer (Sairitik), Sagar, Shrunkhal & Rishi** Laptop having problem taking action on it.

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