**Hardware Requirements:**

Hardware Requirements can be split into two parts requirements for development and requirements for end-users:

**Requirements for development:**

**Minimum requirements for React :**

* CPU: Intel Core i3
* Ram: 8GB
* Storage: 10GB

**Minimum Requirements for C# development using the Visual Studio IDE:**

* **Processor:** 1.8 GHz or faster processor (dual-core or better recommended).
* **RAM:** 2 GB of RAM (4 GB recommended, 2.5 GB minimum on a virtual machine).
* **Hard Disk Space:** Up to 130 GB of available space depending on features installed; typical installations require 20-50 GB. SSD recommended for performance.
* **Video Card:** Supports a minimum display resolution of 720p (1280 by 720); WXGA (1366 by 768) or higher recommended.

**Minimum requirements for TinyLlama:**

Normally an AI model Like TinyLlama would require a minimum of 16GB VRAM

However by utilizing QLoRA we can bring the minimum requirements down significantly with these being our estimates:



**Hardware Requirements for End-Users:**

Since we wont be using a server to host our program the Minimum Requirements to run our program locally is dependent on that of TinyLlama’s as such they Are:

* CPU: 4-cores or more
* System RAM: at least 16GB
* GPU: NVIDIA GPUs only, 12GB VRAM or higher is necessary to enjoy AI products offered by Tiny Llama's default configuration at full-speed
* Storage: 60GB SSD, 250GB or more is recommended for additional models and to support future functionality
* Wired internet connectivity during setup, wired LAN connectivity afterwards

**Software Requirements:**

Software Requirements can be split into two parts requirements for development and requirements for end-users:

**Requirements for development:**

**Requirements for React :**

Windows 10/11 or Ubuntu 16 or MacOS 10.10

**Minimum Requirements for C# development using the Visual Studio IDE:**

Windows 10/ Windows 11

**Requirements for TinyLlama:**

Windows 10/11 or Ubuntu 16 or MacOS 10.10

**Requirements for End-Users:**Windows 10/11 or Ubuntu 16 or MacOS 10.10

**References:**

[**Requirements for React**](https://kinsta.com/knowledgebase/install-react/)

[**Requirements for C# Development using The Visual Studio IDE**](https://learn.microsoft.com/en-us/visualstudio/releases/2022/system-requirements)

[**Requirements for TinyLlama**](https://github.com/InsightReactions/TinyLlama?tab=readme-ov-file)