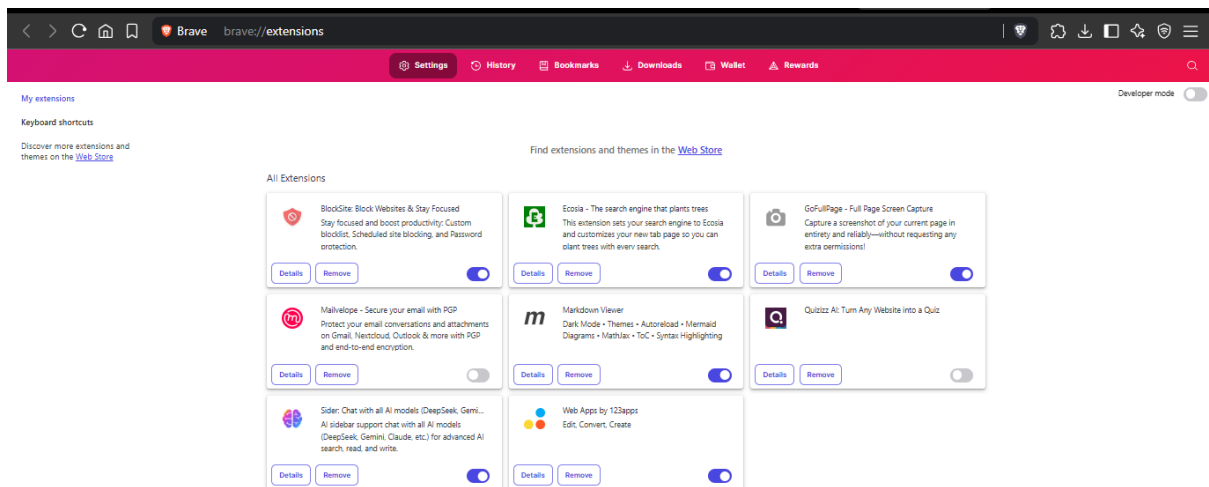


## 1. Open your browser's extension/add-ons manager.

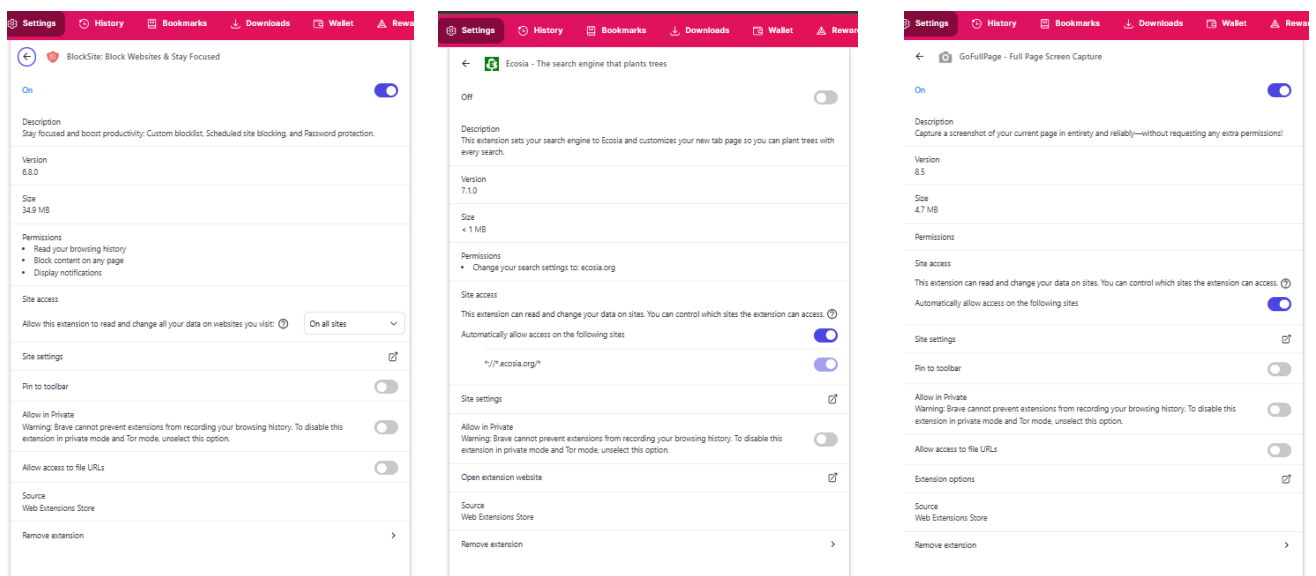
Here, we are using brave browser's extension menu to access

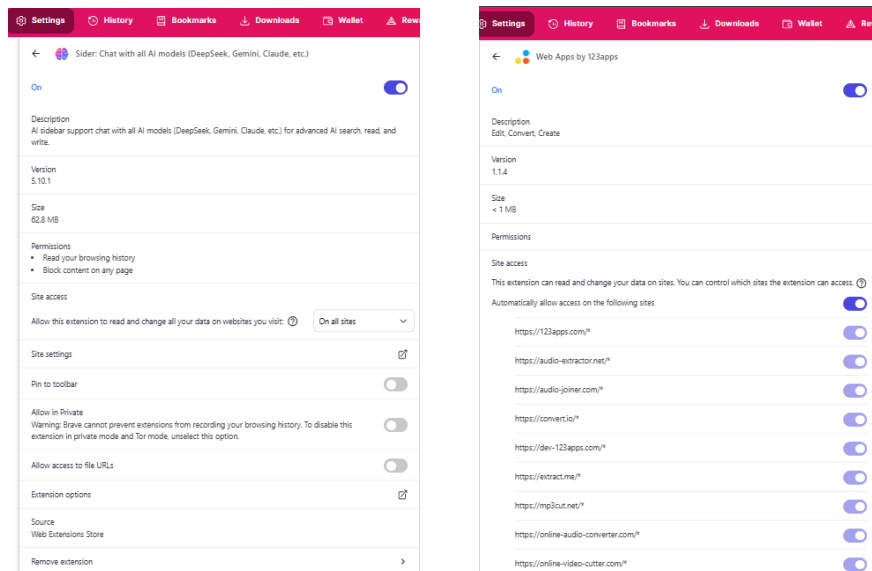
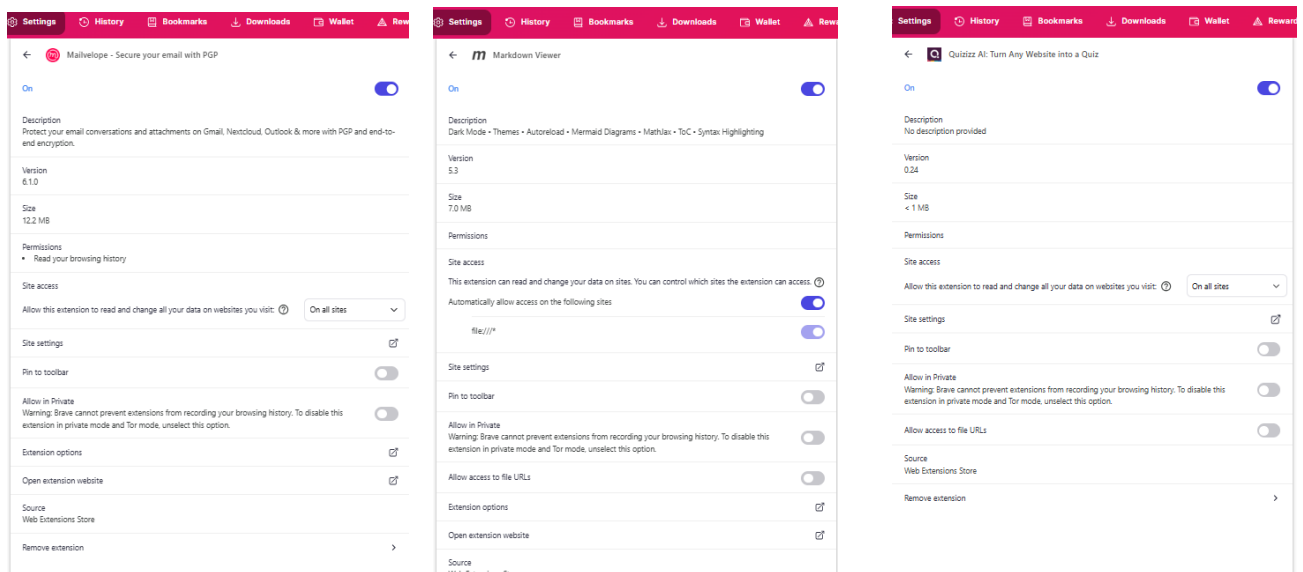


## 2. Review all installed extensions carefully.

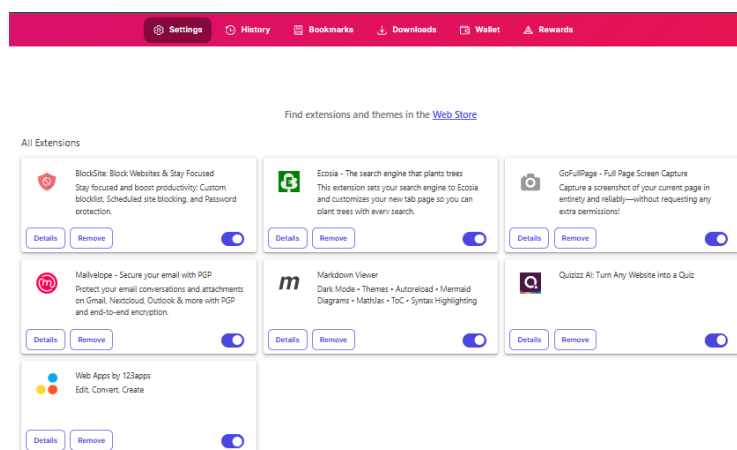
Upon review it is found that few extensions are not required and could be uninstalled.

## 3. Checking permissions, Identifying suspicious extensions and Removing extensions





Here it is observed that sider chat is having the permissions of reading the history which is suspicious in nature and should be removed at the earliest.



Before removing the extension the resources used by the browser are

Task Manager

FileOptionsView

ProcessesPerformanceApp historyStartupUsersDetailsServices

Name	4% CPU	31% Memory	0% Disk	0% Network	0% GPU	GPU engi...	Power usage	Power usage t...	Status
Apps (4)									
Adobe Acrobat	0%	394.4 MB	0 MB/s	0 Mbps	0%		Very low	Very low	
Brave Browser (4)	1.4%	262.6 MB	0.1 MB/s	0.1 Mbps	0%		Very low	Very low	
Microsoft Word (32 bit)	0%	44.2 MB	0 MB/s	0 Mbps	0%		Very low	Very low	
Task Manager	0.7%	20.3 MB	0 MB/s	0 Mbps	0%		Very low	Very low	

Task Manager - Brave

Task

Task	Memory footprint	CPU	Network	Process ID
Browser	193,500K	1.6	0	6328
GPU Process	204,536K	1.2	0	2028
Utility: Network Service	21,252K	0.0	0	4944
Utility: Storage Service	11,836K	0.0	0	1180
Utility: Bat Rewards Service	7,680K	0.0	0	1052
Utility: Audio Service	8,560K	0.1	0	2220
Utility: Video Capture	21,124K	0.0	0	3892
Spare Renderer	13,544K	0.1	0	2420
Tab: Extensions	53,572K	0.1	0	7948
Tab: Settings - System	49,248K	0.1	0	9408
Extension: Sider: Chat with all AI models (DeepSeek, Gemini, Claude, etc.)	75,368K	0.2	0	440
Service Worker: chrome-extension://difoiojjiojaoomphldepagpgbghkb/background.js				

After removing the extension the resources used are

Task Manager

FileOptionsView

ProcessesPerformanceApp historyStartupUsersDetailsServices

Name	10% CPU	31% Memory	0% Disk	0% Network	4% GPU	GPU engi...	Power usage	Power usage t...	Status
Apps (4)									
Adobe Acrobat	0%	394.4 MB	0 MB/s	0 Mbps	0%		Very low	Very low	
Brave Browser (5)	2.5%	211.6 MB	0.1 MB/s	0.1 Mbps	0%		Low	Very low	
Microsoft Word (32 bit)	0%	46.8 MB	0 MB/s	0 Mbps	0%		Very low	Very low	
Task Manager	0.1%	20.3 MB	0 MB/s	0 Mbps	0%		Very low	Very low	

Task Manager - Brave

Task

Task	Memory footprint	CPU	Network	Process ID
Browser	178,140K	1.8	0	6328
GPU Process	196,020K	1.1	0	2028
Utility: Network Service	21,188K	0.0	0	4944
Utility: Storage Service	11,836K	0.1	0	1180
Utility: Bat Rewards Service	7,680K	0.1	0	1052
Utility: Audio Service	8,564K	0.1	0	2220
Utility: Video Capture	21,128K	0.0	0	3892
Spare Renderer	18,404K	0.0	0	5092
Tab: Extensions	53,112K	0.0	0	7948
Tab: Settings - System	53,412K	0.1	0	9408
Service Worker: chrome-extension://eiimnmioipafcofkbjlfdeojpcgbh/service-worker.js	42,248K	0.2	0	8648

After removing the extension there is a 20% less consumption of resources

#### 4. Research how malicious extensions can harm users.

Malicious browser extensions pose significant threats to both browser security and overall system performance. These extensions often disguise themselves as useful tools but secretly execute harmful activities such as stealing sensitive data, injecting unwanted ads, or redirecting users to phishing sites.

By running background processes continuously, they consume excessive system resources like CPU and memory, leading to slower browser response times and degraded user experience.

Furthermore, malicious extensions can exploit browser vulnerabilities to escalate privileges, potentially compromising the entire operating system. Understanding the impact of these extensions is crucial for developing effective detection mechanisms and promoting safer browsing environments.