

```
1  /* -*- Mode: C++; tab-width: 2; indent-tabs-mode: nil; c-basic-offset: 2 -*-
2  *
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17 */
18
19 /*
20 * nsDiskModule. The disk cache module that stores the cache objects
21 * on the disk.
22 *
23 * Gagan Saksena 02/03/98
24 *
25 */
26 #ifndef _nsDiskModule_H_
27 #define _nsDiskModule_H_
28
29 #include "nsCacheModule.h"
30 #include "nsCachePref.h"
31 #include "mcom_db.h"
32
33 class nsDiskModule : public nsCacheModule
34 {
35
36 public:
37     nsDiskModule(const PRUint32 size = nsCachePref::GetInstance()->DiskCacheSize());
38     ~nsDiskModule();
39
40     // Cache module interface
41     PRBool      AddObject(nsCacheObject* io_pObject);
42
43     PRUint32    AverageSize(void) const;
44
45     PRBool      Contains(nsCacheObject* io_pObject) const;
46     PRBool      Contains(const char* i_url) const;
47
48     void        GarbageCollect(void);
49
50     nsCacheObject* GetObject(const PRUint32 i_index) const;
51     nsCacheObject* GetObject(const char* i_url) const;
52
```

```
55     PRBool          Remove(const char* i_url);
56     PRBool          Remove(nsCacheObject* pObject);
57     PRBool          Remove(const PRUint32 i_index);
58
59     // To do cleanup set size to zero. Else initialize disk cache
60     void            SetSize(const PRUint32 i_size);
61
62     PRBool          Revalidate(void);
63
64 protected:
65
66     PRBool          ReduceSizeTo(const PRUint32 i_NewSize);
67
68 private:
69     enum sync_frequency
70     {
71         EVERYTIME,
72         IDLE,
73         NEVER
74     } m_Sync;
75
76     PRBool          InitDB(void);
77
78     nsDiskModule(const nsDiskModule& dm);
79     nsDiskModule& operator=(const nsDiskModule& dm);
80
81     DB* m_pDB;
82 };
83
84 inline
85 PRUint32 nsDiskModule::AverageSize(void) const
86 {
87     MonitorLocker ml((nsDiskModule*)this);
88     if (Entries()>0)
89     {
90         return (PRUint32)(m_SizeInUse/m_Entries);
91     }
92     return 0;
93 }
94 #endif
95
```