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1 1 OBJECTIVE: Build
2 2 Build a "log" web app.
3 3
4 4 Overview
5 5 This app is a simple web application that displays a list of log entries. It is built using the following technologies:
6 6 - React: A JavaScript library for building user interfaces.
7 7 - Redux: A state management library for React.
8 8 - Axios: A promise-based HTTP client for the browser and Node.js.
9 9 - Bootstrap: A front-end framework for creating responsive designs.
10 10
11 11 Getting Started
12 12 To get started with this app, you need to have the following installed on your machine:
13 13 - Node.js: A JavaScript runtime environment.
14 14 - npm: A package manager for Node.js.
15 15 - yarn: A package manager for Node.js.
16 16
17 17 Installation
18 18 To install the app, run the following command in your terminal:
19 19 $ yarn install
20 20
21 21 Running the App
22 22 To run the app, run the following command in your terminal:
23 23 $ yarn start
24 24
25 25 The app will be available at http://localhost:3000.
26 26
27 27 Data Structure
28 28 The app uses a simple data structure to represent log entries. Each entry is an object with the following properties:
29 29 - id: A unique identifier for the entry.
30 30 - message: The log message.
31 31 - timestamp: The time the log was created.
32 32
33 33 Example Log Entries
34 34 Here are some example log entries:
35 35 {
36 36   id: 1,
37 37   message: "Application started.",
38 38   timestamp: "2023-01-01T00:00:00Z"
39 39 }
40 40
41 41 {
42 42   id: 2,
43 43   message: "User logged in.",
44 44   timestamp: "2023-01-01T00:01:00Z"
45 45 }
46 46
47 47 {
48 48   id: 3,
49 49   message: "Error: Database connection failed.",
50 50   timestamp: "2023-01-01T00:02:00Z"
51 51 }
52 52
53 53 {
54 54   id: 4,
55 55   message: "New feature implemented.",
56 56   timestamp: "2023-01-01T00:03:00Z"
57 57 }
58 58
59 59 {
60 60   id: 5,
61 61   message: "System update completed.",
62 62   timestamp: "2023-01-01T00:04:00Z"
63 63 }
64 64
65 65 {
66 66   id: 6,
67 67   message: "Security audit passed.",
68 68   timestamp: "2023-01-01T00:05:00Z"
69 69 }
70 70
71 71 {
72 72   id: 7,
73 73   message: "Performance optimization complete.",
74 74   timestamp: "2023-01-01T00:06:00Z"
75 75 }
76 76
77 77 {
78 78   id: 8,
79 79   message: "New user registered.",
80 80   timestamp: "2023-01-01T00:07:00Z"
81 81 }
82 82
83 83 {
84 84   id: 9,
85 85   message: "System backup completed.",
86 86   timestamp: "2023-01-01T00:08:00Z"
87 87 }
88 88
89 89 {
90 90   id: 10,
91 91   message: "New feature implemented.",
92 92   timestamp: "2023-01-01T00:09:00Z"
93 93 }
94 94
95 95 {
96 96   id: 11,
97 97   message: "System update completed.",
98 98   timestamp: "2023-01-01T00:10:00Z"
99 99 }
100 100
101 101 {
102 102   id: 12,
103 103   message: "Security audit passed.",
104 104   timestamp: "2023-01-01T00:11:00Z"
105 105 }
106 106
107 107 {
108 108   id: 13,
109 109   message: "Performance optimization complete.",
110 110   timestamp: "2023-01-01T00:12:00Z"
111 111 }
112 112
113 113 {
114 114   id: 14,
115 115   message: "New user registered.",
116 116   timestamp: "2023-01-01T00:13:00Z"
117 117 }
118 118
119 119 {
120 120   id: 15,
121 121   message: "System backup completed.",
122 122   timestamp: "2023-01-01T00:14:00Z"
123 123 }
124 124
125 125 {
126 126   id: 16,
127 127   message: "New feature implemented.",
128 128   timestamp: "2023-01-01T00:15:00Z"
129 129 }
130 130
131 131 {
132 132   id: 17,
133 133   message: "System update completed.",
134 134   timestamp: "2023-01-01T00:16:00Z"
135 135 }
136 136
137 137 {
138 138   id: 18,
139 139   message: "Security audit passed.",
140 140   timestamp: "2023-01-01T00:17:00Z"
141 141 }
142 142
143 143 {
144 144   id: 19,
145 145   message: "Performance optimization complete.",
146 146   timestamp: "2023-01-01T00:18:00Z"
147 147 }
148 148
149 149 {
150 150   id: 20,
151 151   message: "New user registered.",
152 152   timestamp: "2023-01-01T00:19:00Z"
153 153 }
154 154
155 155 {
156 156   id: 21,
157 157   message: "System backup completed.",
158 158   timestamp: "2023-01-01T00:20:00Z"
159 159 }
160 160
161 161 {
162 162   id: 22,
163 163   message: "New feature implemented.",
164 164   timestamp: "2023-01-01T00:21:00Z"
165 165 }
166 166
167 167 {
168 168   id: 23,
169 169   message: "System update completed.",
170 170   timestamp: "2023-01-01T00:22:00Z"
171 171 }
172 172
173 173 {
174 174   id: 24,
175 175   message: "Security audit passed.",
176 176   timestamp: "2023-01-01T00:23:00Z"
177 177 }
178 178
179 179 {
180 180   id: 25,
181 181   message: "Performance optimization complete.",
182 182   timestamp: "2023-01-01T00:24:00Z"
183 183 }
184 184
185 185 {
186 186   id: 26,
187 187   message: "New user registered.",
188 188   timestamp: "2023-01-01T00:25:00Z"
189 189 }
190 190
191 191 {
192 192   id: 27,
193 193   message: "System backup completed.",
194 194   timestamp: "2023-01-01T00:26:00Z"
195 195 }
196 196
197 197 {
198 198   id: 28,
199 199   message: "New feature implemented.",
200 200   timestamp: "2023-01-01T00:27:00Z"
201 201 }
202 202
203 203 {
204 204   id: 29,
205 205   message: "System update completed.",
206 206   timestamp: "2023-01-01T00:28:00Z"
207 207 }
208 208
209 209 {
210 210   id: 30,
211 211   message: "Security audit passed.",
212 212   timestamp: "2023-01-01T00:29:00Z"
213 213 }
214 214
215 215 {
216 216   id: 31,
217 217   message: "Performance optimization complete.",
218 218   timestamp: "2023-01-01T00:30:00Z"
219 219 }
220 220
221 221 {
222 222   id: 32,
223 223   message: "New user registered.",
224 224   timestamp: "2023-01-01T00:31:00Z"
225 225 }
226 226
227 227 {
228 228   id: 33,
229 229   message: "System backup completed.",
230 230   timestamp: "2023-01-01T00:32:00Z"
231 231 }
232 232
233 233 {
234 234   id: 34,
235 235   message: "New feature implemented.",
236 236   timestamp: "2023-01-01T00:33:00Z"
237 237 }
238 238
239 239 {
240 240   id: 35,
241 241   message: "System update completed.",
242 242   timestamp: "2023-01-01T00:34:00Z"
243 243 }
244 244
245 245 {
246 246   id: 36,
247 247   message: "Security audit passed.",
248 248   timestamp: "2023-01-01T00:35:00Z"
249 249 }
250 250
251 251 {
252 252   id: 37,
253 253   message: "Performance optimization complete.",
254 254   timestamp: "2023-01-01T00:36:00Z"
255 255 }
256 256
257 257 {
258 258   id: 38,
259 259   message: "New user registered.",
260 260   timestamp: "2023-01-01T00:37:00Z"
261 261 }
262 262
263 263 {
264 264   id: 39,
265 265   message: "System backup completed.",
266 266   timestamp: "2023-01-01T00:38:00Z"
267 267 }
268 268
269 269 {
270 270   id: 40,
271 271   message: "New feature implemented.",
272 272   timestamp: "2023-01-01T00:39:00Z"
273 273 }
274 274
275 275 {
276 276   id: 41,
277 277   message: "System update completed.",
278 278   timestamp: "2023-01-01T00:40:00Z"
279 279 }
280 280
281 281 {
282 282   id: 42,
283 283   message: "Security audit passed.",
284 284   timestamp: "2023-01-01T00:41:00Z"
285 285 }
286 286
287 287 {
288 288   id: 43,
289 289   message: "Performance optimization complete.",
290 290   timestamp: "2023-01-01T00:42:00Z"
291 291 }
292 292
293 293 {
294 294   id: 44,
295 295   message: "New user registered.",
296 296   timestamp: "2023-01-01T00:43:00Z"
297 297 }
298 298
299 299 {
300 300   id: 45,
301 301   message: "System backup completed.",
302 302   timestamp: "2023-01-01T00:44:00Z"
303 303 }
304 304
305 305 {
306 306   id: 46,
307 307   message: "New feature implemented.",
308 308   timestamp: "2023-01-01T00:45:00Z"
309 309 }
310 310
311 311 {
312 312   id: 47,
313 313   message: "System update completed.",
314 314   timestamp: "2023-01-01T00:46:00Z"
315 315 }
316 316
317 317 {
318 318   id: 48,
319 319   message: "Security audit passed.",
320 320   timestamp: "2023-01-01T00:47:00Z"
321 321 }
322 322
323 323 {
324 324   id: 49,
325 325   message: "Performance optimization complete.",
326 326   timestamp: "2023-01-01T00:48:00Z"
327 327 }
328 328
329 329 {
330 330   id: 50,
331 331   message: "New user registered.",
332 332   timestamp: "2023-01-01T00:49:00Z"
333 333 }
334 334
335 335 {
336 336   id: 51,
337 337   message: "System backup completed.",
338 338   timestamp: "2023-01-01T00:50:00Z"
339 339 }
340 340
341 341 {
342 342   id: 52,
343 343   message: "New feature implemented.",
344 344   timestamp: "2023-01-01T00:51:00Z"
345 345 }
346 346
347 347 {
348 348   id: 53,
349 349   message: "System update completed.",
350 350   timestamp: "2023-01-01T00:52:00Z"
351 351 }
352 352
353 353 {
354 354   id: 54,
355 355   message: "Security audit passed.",
356 356   timestamp: "2023-01-01T00:53:00Z"
357 357 }
358 358
359 359 {
360 360   id: 55,
361 361   message: "Performance optimization complete.",
362 362   timestamp: "2023-01-01T00:54:00Z"
363 363 }
364 364
365 365 {
366 366   id: 56,
367 367   message: "New user registered.",
368 368   timestamp: "2023-01-01T00:55:00Z"
369 369 }
370 370
371 371 {
372 372   id: 57,
373 373   message: "System backup completed.",
374 374   timestamp: "2023-01-01T00:56:00Z"
375 375 }
376 376
377 377 {
378 378   id: 58,
379 379   message: "New feature implemented.",
380 380   timestamp: "2023-01-01T00:57:00Z"
381 381 }
382 382
383 383 {
384 384   id: 59,
385 385   message: "System update completed.",
386 386   timestamp: "2023-01-01T00:58:00Z"
387 387 }
388 388
389 389 {
390 390   id: 60,
391 391   message: "Security audit passed.",
392 392   timestamp: "2023-01-01T00:59:00Z"
393 393 }
394 394
395 395 {
396 396   id: 61,
397 397   message: "Performance optimization complete.",
398 398   timestamp: "2023-01-01T01:00:00Z"
399 399 }
400 400
401 401 {
402 402   id: 62,
403 403   message: "New user registered.",
404 404   timestamp: "2023-01-01T01:01:00Z"
405 405 }
406 406
407 407 {
408 408   id: 63,
409 409   message: "System backup completed.",
410 410   timestamp: "2023-01-01T01:02:00Z"
411 411 }
412 412
413 413 {
414 414   id: 64,
415 415   message: "New feature implemented.",
416 416   timestamp: "2023-01-01T01:03:00Z"
417 417 }
418 418
419 419 {
420 420   id: 65,
421 421   message: "System update completed.",
422 422   timestamp: "2023-01-01T01:04:00Z"
423 423 }
424 424
425 425 {
426 426   id: 66,
427 427   message: "Security audit passed.",
428 428   timestamp: "2023-01-01T01:05:00Z"
429 429 }
430 430
431 431 {
432 432   id: 67,
433 433   message: "Performance optimization complete.",
434 434   timestamp: "2023-01-01T01:06:00Z"
435 435 }
436 436
437 437 {
438 438   id: 68,
439 439   message: "New user registered.",
440 440   timestamp: "2023-01-01T01:07:00Z"
441 441 }
442 442
443 443 {
444 444   id: 69,
445 445   message: "System backup completed.",
446 446   timestamp: "2023-01-01T01:08:00Z"
447 447 }
448 448
449 449 {
450 450   id: 70,
451 451   message: "New feature implemented.",
452 452   timestamp: "2023-01-01T01:09:00Z"
453 453 }
454 454
455 455 {
456 456   id: 71,
457 457   message: "System update completed.",
458 458   timestamp: "2023-01-01T01:10:00Z"
459 459 }
460 460
461 461 {
462 462   id: 72,
463 463   message: "Security audit passed.",
464 464   timestamp: "2023-01-01T01:11:00Z"
465 465 }
466 466
467 467 {
468 468   id: 73,
469 469   message: "Performance optimization complete.",
470 470   timestamp: "2023-01-01T01:12:00Z"
471 471 }
472 472
473 473 {
474 474   id: 74,
475 475   message: "New user registered.",
476 476   timestamp: "2023-01-01T01:13:00Z"
477 477 }
478 478
479 479 {
480 480   id: 75,
481 481   message: "System backup completed.",
482 482   timestamp: "2023-01-01T01:14:00Z"
483 483 }
484 484
485 485 {
486 486   id: 76,
487 487   message: "New feature implemented.",
488 488   timestamp: "2023-01-01T01:15:00Z"
489 489 }
490 490
491 491 {
492 492   id: 77,
493 493   message: "System update completed.",
494 494   timestamp: "2023-01-01T01:16:00Z"
495 495 }
496 496
497 497 {
498 498   id: 78,
499 499   message: "Security audit passed.",
500 500   timestamp: "2023-01-01T01:17:00Z"
501 501 }
502 502
503 503 {
504 504   id: 79,
505 505   message: "Performance optimization complete.",
506 506   timestamp: "2023-01-01T01:18:00Z"
507 507 }
508 508
509 509 {
510 510   id: 80,
511 511   message: "New user registered.",
512 512   timestamp: "2023-01-01T01:19:00Z"
513 513 }
514 514
515 515 {
516 516   id: 81,
517 517   message: "System backup completed.",
518 518   timestamp: "2023-01-01T01:20:00Z"
519 519 }
520 520
521 521 {
522 522   id: 82,
523 523   message: "New feature implemented.",
524 524   timestamp: "2023-01-01T01:21:00Z"
525 525 }
526 526
527 527 {
528 528   id: 83,
529 529   message: "System update completed.",
530 530   timestamp: "2023-01-01T01:22:00Z"
531 531 }
532 532
533 533 {
534 534   id: 84,
535 535   message: "Security audit passed.",
536 536   timestamp: "2023-01-01T01:23:00Z"
537 537 }
538 538
539 539 {
540 540   id: 85,
541 541   message: "Performance optimization complete.",
542 542   timestamp: "2023-01-01T01:24:00Z"
543 543 }
544 544
545 545 {
546 546   id: 86,
547 547   message: "New user registered.",
548 548   timestamp: "2023-01-01T01:25:00Z"
549 549 }
550 550
551 551 {
552 552   id: 87,
553 553   message: "System backup completed.",
554 554   timestamp: "2023-01-01T01:26:00Z"
555 555 }
556 556
557 557 {
558 558   id: 88,
559 559   message: "New feature implemented.",
560 560   timestamp: "2023-01-01T01:27:00Z"
561 561 }
562 562
563 563 {
564 564   id: 89,
565 565   message: "System update completed.",
566 566   timestamp: "2023-01-01T01:28:00Z"
567 567 }
568 568
569 569 {
570 570   id: 90,
571 571   message: "Security audit passed.",
572 572   timestamp: "2023-01-01T01:29:00Z"
573 573 }
574 574
575 575 {
576 576   id: 91,
577 577   message: "Performance optimization complete.",
578 578   timestamp: "2023-01-01T01:30:00Z"
579 579 }
580 580
581 581 {
582 582   id: 92,
583 583   message: "New user registered.",
584 584   timestamp: "2023-01-01T01:31:00Z"
585 585 }
586 586
587 587 {
588 588   id: 93,
589 589   message: "System backup completed.",
590 590   timestamp: "2023-01-01T01:32:00Z"
591 591 }
592 592
593 593 {
594 594   id: 94,
595 595   message: "New feature implemented.",
596 596   timestamp: "2023-01-01T01:33:00Z"
597 597 }
598 598
599 599 {
600 600   id: 95,
601 601   message: "System update completed.",
602 602   timestamp: "2023-01-01T01:34:00Z"
603 603 }
604 604
605 605 {
606 606   id: 96,
607 607   message: "Security audit passed.",
608 608   timestamp: "2023-01-01T01:35:00Z"
609 609 }
610 610
611 611 {
612 612   id: 97,
613 613   message: "Performance optimization complete.",
614 614   timestamp: "2023-01-01T01:36:00Z"
615 615 }
616 616
617 617 {
618 618   id: 98,
619 619   message: "New user registered.",
620 620   timestamp: "2023-01-01T01:37:00Z"
621 621 }
622 622
623 623 {
624 624   id: 99,
625 625   message: "System backup completed.",
626 626   timestamp: "2023-01-01T01:38:00Z"
627 627 }
628 628
629 629 {
630 630   id: 100,
631 631   message: "New feature implemented.",
632 632   timestamp: "2023-01-01T01:39:00Z"
633 633 }
634 634
635 635 {
636 636   id: 101,
637 637   message: "System update completed.",
638 638   timestamp: "2023-01-01T01:40:00Z"
639 639 }
640 640
641 641 {
642 642   id: 102,
643 643   message: "Security audit passed.",
644 644   timestamp: "2023-01-01T01:41:00Z"
645 645 }
646 646
647 647 {
648 648   id: 103,
649 649   message: "Performance optimization complete.",
650 650   timestamp: "2023-01-01T01:42:00Z"
651 651 }
652 652
653 653 {
654 654   id: 104,
655 655   message: "New user registered.",
656 656   timestamp: "2023-01-01T01:43:00Z"
657 657 }
658 658
659 659 {
660 660   id: 105,
661 661   message: "System backup completed.",
662 662   timestamp: "2023-01-01T01:44:00Z"
663 663 }
664 664
665 665 {
666 666   id: 106,
667 667   message: "New feature implemented.",
668 668   timestamp: "2023-01-01T01:45:00Z"
669 669 }
670 670
671 671 {
672 672   id: 107,
673 673   message: "System update completed.",
674 674   timestamp: "2023-01-01T01:46:00Z"
675 675 }
676 676
677 677 {
678 678   id: 108,
679 679   message: "Security audit passed.",
680 680   timestamp: "2023-01-01T01:47:00Z"
681 681 }
682 682
683 683 {
684 684   id: 109,
685 685   message: "Performance optimization complete.",
686 686   timestamp: "2023-01-01T01:48:00Z"
687 687 }
688 688
689 689 {
690 690   id: 110,
691 691   message: "New user registered.",
692 692   timestamp: "2023-01-01T01:49:00Z"
693 693 }
694 694
695 695 {
696 696   id: 111,
697 697   message: "System backup completed.",
698 698   timestamp: "2023-01-01T01:50:00Z"
699 699 }
700 700
701 701 {
702 702   id: 112,
703 703   message: "New feature implemented.",
704 704   timestamp: "2023-01-01T01:51:00Z"
705 705 }
706 706
707 707 {
708 708   id: 113,
709 709   message: "System update completed.",
710 710   timestamp: "2023-01-01T01:52:00Z"
711 711 }
712 712
713 713 {
714 714   id: 114,
715 715   message: "Security audit passed.",
716 716   timestamp: "2023-01-01T01:53:00Z"
717 717 }
718 718
719 719 {
720 720   id: 115,
721 721   message: "Performance optimization complete.",
722 722   timestamp: "2023-01-01T01:54:00Z"
723 723 }
724 724
725 725 {
726 726   id: 116,
727 727   message: "New user registered.",
728 728   timestamp: "2023-01-01T01:55:00Z"
729 729 }
730 730
731 731 {
732 732   id: 117,
733 733   message: "System backup completed.",
734 734   timestamp: "2023-01-01T01:56:00Z"
735 735 }
736 736
737 737 {
738 738   id: 118,
739 739   message: "New feature implemented.",
740 740   timestamp: "2023-01-01T01:57:00Z"
741 741 }
742 742
743 743 {
744 744   id: 119,
745 745   message: "System update completed.",
746 746   timestamp: "2023-01-01T01:58:00Z"
747 747 }
748 748
749 749 {
750 750   id: 120,
751 751   message: "Security audit passed.",
752 752   timestamp: "2023-01-01T01:59:00Z"
753 753 }
754 754
755 755 {
756 756   id: 121,
757 757   message: "Performance optimization complete.",
758 758   timestamp: "2023-01-01T02:00:00Z"
759 759 }
760 760
761 761 {
762 762   id: 122,
763 763   message: "New user registered.",
764 764   timestamp: "2023-01-01T02:01:00Z"
765 765 }
766 766
767 767 {
768 768   id: 123,
769 769   message: "System backup completed.",
770 770   timestamp: "2023-01-01T02:02:00Z"
771 771 }
772 772
773 773 {
774 774   id: 124,
775 775   message: "New feature implemented.",
776 776   timestamp: "2023-01-01T02:03:00Z"
777 777 }
778 778
779 779 {
780 780   id: 125,
781 781   message: "System update completed.",
782 782   timestamp: "2023-01-01T02:04:00Z"
783 783 }
784 784
785 785 {
786 786   id: 126,
787 787   message: "Security audit passed.",
788 788   timestamp: "2023-01-01T02:05:00Z"
789 789 }
790 790
791 791 {
792 792   id: 127,
793 793   message: "Performance optimization complete.",
794 794   timestamp: "2023-01-01T02:06:00Z"
795 795 }
796 796
797 797 {
798 798   id: 128,
799 799   message: "New user registered.",
800 800   timestamp: "2023-01-01T02:07:00Z"
801 801 }
802 802
803 803 {
804 804   id: 129,
805 805   message: "System backup completed.",
806 806   timestamp: "2023-01-01T02:08:00Z"
807 807 }
808 808
809 809 {
810 810   id: 130,
811 811   message: "New feature implemented.",
812 812   timestamp: "2023-01-01T02:09:00Z"
813 813 }
814 814
815 815 {
816 816   id: 131,
817 817   message: "System update completed.",
818 818   timestamp: "2023-01-01T02:10:00Z"
819 819 }
820 820
821 821 {
822 822   id: 132,
823 823   message: "Security audit passed.",
824 824   timestamp: "2023-01-01T02:11:00Z"
825 825 }
826 826
827 827 {
828 828   id: 133,
829 829   message: "Performance optimization complete.",
830 830   timestamp: "2023-01-01T02:12:00Z"
831 831 }
832 832
833 833 {
834 834   id: 134,
835 835   message: "New user registered.",
836 836   timestamp: "2023-01-
```