19/03/2022, 23:50 H View.h

```
1 #ifndef VIEW_H
 2 #define VIEW H
 3
 4 #include <conio.h>
 5 #include <stdbool.h>
 6 #include <stdlib.h>
 7
 8 #include "H Controller.c"
 9 #include "H Dictionary.h"
10 #include "H_Model.h"
12 void showEmployerMenu(Dictionary *D)
13 {
14
       int temp;
15
       int empID;
16
       char period[MONTH];
       bool In = true, In2 = true, In3 = true, In4 = true, In5 = true, In6 = true,
17
             In7 = true, In8 = true, In9 = true, In10 = true, In11 = true;
18
19
20
       while (In)
21
       {
22
            system("cls");
23
            if (debug)
24
            {
25
                displayDictionariesCount(*D);
26
27
           header();
28
29
           if (debugMenu)
30
                printf(" DEBUG MODE\n");
31
                printf(" [-6] (Debug) Debug All\n");
32
                printf(" [-5] (Debug) Attendance\n");
33
                printf(" [-4] (Debug) Bonus\n");
34
                printf(" [-3] (Debug) JobInformation\n");
35
                printf(" [-2] (Debug) Salary\n");
36
                printf(" [-1] (Debug) User\n\n");
37
38
            }
39
40
           printf(" CREATE\n\n");
           printf(" [1] Create Employee\n");
41
           printf(" [2] Create Monthly Attendance\n");
42
43
           printf(" [3] Create Monthly Bonus\n");
           printf(" [4] Issue Employee Salary\n\n");
44
45
           printf(" VIEW / UPDATE / DELETE\n\n");
46
           printf(" [5] Employee Attendance\n");
printf(" [6] Employee Profile\n");
47
48
           printf(" [7] Employee Job Information\n");
49
           printf(" [8] Employee Bonus\n");
50
           printf(" [9] Employee Salary\n");
51
           printf(" [0] Save and Exit\n");
52
53
           printf("
                                                                              _\n\n");
           printf(" Select Option: ");
54
55
            scanf("%d", &temp);
56
           fflush(stdin);
57
58
            switch (temp)
59
```

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```
60
            case -6: // C-6
 61
62
63
                 debugAll(*D);
64
                 printf("
                                                                                  _\n\n");
                printf(" *Press any key to continue...* ");
 65
66
                 getch();
 67
                 break;
            }
 68
69
            // Debug Attendance -- Complete
70
 71
            case -5: // C-5
 72
            {
                debugAttendance(*D);
73
 74
                 printf("
                                                                         ____\n\n");
                 printf(" *Press any key to continue...* ");
75
76
                 getch();
77
                 break;
 78
            }
 79
 80
            // Debug Bonus -- Complete
 81
            case -4: // C-4
 82
            {
                debugBonus(*D);
83
 84
                 printf("
                                                                                  _\n\n");
                 printf(" *Press any key to continue...* ");
 85
 86
                 getch();
 87
                break;
 88
            }
89
            // Debug Job Information -- Complete
 90
            case -3: // C-3
91
 92
            {
93
                 debugJobInformation(*D);
                                                                                   \n\n");
94
                 printf("
95
                printf(" *Press any key to continue...* ");
96
                 getch();
97
                break;
98
            }
99
            // Debug Salary -- Complete
100
            case -2: // C-2
101
102
            {
103
                 debugSalary(*D);
                                                                                  _\n\n");
104
                 printf("
                printf(" *Press any key to continue...* ");
105
106
                 getch();
107
                break;
            }
108
109
            // Debug User -- Complete
110
            case -1: // C-1
111
112
            {
                 debugUser(*D);
113
                 printf("
114
                                                                                  _\n\n");
                 printf(" *Press any key to continue...* ");
115
116
                 getch();
117
                 break;
118
            }
119
```

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```
120
            // Push to Dictionary -- Complete
121
            case 0: // C0
122
                if (pushUserD(*D) && pushJobInformationD(*D) &&
123
                     pushIssueSalaryD(*D) && pushBonusD(*D) &&
124
                     pushAttendanceD(*D)) // pushUserD(*D) &&
125
126
                {
127
                     printf("\n Your changes have been successfully saved.");
                }
128
129
                else
130
                {
                     printf("\n ERROR: Failed to saved changes.");
131
132
133
                In = false;
134
                break;
135
            }
136
137
            // Create Employee -- Complete
138
            case 1: // C1
139
            {
                system("cls");
140
                if (debug == true)
141
142
                {
                     displayDictionariesCount(*D);
143
144
145
                header();
146
                printf(" CREATE EMPLOYEE INFORMATION\n\n");
147
                Model_User employeeInfo = createUserInformation(*D);
                Model_JobInformation jobInfo =
148
149
                     createJobInformation(*D, employeeInfo.userID);
150
                if (insertUser(D, employeeInfo) &&
151
152
                     insertJobInformation(D, jobInfo))
153
                {
                     printf(" \n Employee information successfully created.\n");
154
155
                }
156
                else
157
                {
                     printf(" \n ERROR: Failed to create employee information.\n");
158
159
                }
160
                printf("
                                                                                 \n\n");
161
                printf(" *Press any key to continue...* ");
162
163
                getch();
                break;
164
165
            }
166
            // Create Attendance -- Complete
167
            case 2: // C2
168
169
            {
                system("cls");
170
171
                if (debug == true)
172
                {
173
                     displayDictionariesCount(*D);
174
175
                header();
176
                printf(" CREATE MONTHLY ATTENDANCE\n\n");
177
178
                printf(" Enter Employee ID: ");
                scanf("%d", &empID);
179
```

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```
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                                                     H View.h
                  printf(" Enter period (mm/yy): ");
  180
                  scanf("%s", &period);
  181
  182
                  Model Attendance sa = createAttendance(*D, empID, period);
  183
                  if (sa.attendanceID == -1)
  184
  185
                  {
  186
                       printf(" \n ERROR: Employee ID #%d not found. \n", empID);
  187
                  }
                  else
  188
  189
                  {
  190
                       printf(" \n Creating Employee Attendance... \n");
  191
  192
                       if (insertAttendance(D, sa))
  193
                       {
                           printf(" \n Employee #%d attendance for period #%s successfully
  194
      created.\n", empID, period);
  195
                       }
                       else
  196
  197
                       {
                           printf(" \n ERROR: Employee #%d attendance for period #%s
  198
      already exists.\n", empID, period);
  199
                       }
  200
                  }
  201
                  printf("
                                                                                    n\n";
                  printf(" *Press any key to continue...* ");
  202
  203
                  getch();
  204
                  break;
  205
              }
  206
  207
              // Create Bonus -- Complete
  208
              case 3: // C3
  209
              {
  210
                  system("cls");
  211
                  if (debug == true)
  212
                  {
                       displayDictionariesCount(*D);
  213
  214
  215
                  header();
                  printf(" CREATE MONTHLY BONUS\n\n");
  216
  217
                  printf(" Employee ID: ");
  218
                  scanf("%d", &empID);
  219
                  fflush(stdin);
  220
  221
                  printf(" Period (mm/yy): ");
  222
                  scanf("%s", &period);
  223
                  fflush(stdin);
  224
  225
                  Model_Bonus empBonus = createBonus(*D, empID, period);
  226
                  if (empBonus.bonusID == -1)
  227
                  {
                       printf(" \n ERROR: Employee ID #%d not found. \n", empID);
  228
  229
                  }
  230
                  else
  231
                  {
  232
                       printf(" \n Creating Employee Bonus... \n");
                       if (insertBonus(D, empBonus))
  233
  234
                       {
  235
                           printf("\n Employee #%d bonus for period %s successfully
      created.\n", empID, period);
  236
                       }
```

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```
237
                     else
238
239
                         printf("\n ERROR: Employee #%d bonus for period %s already
    exists.\n", empID, period);
240
                     }
                 }
241
242
                                                                                  _\n\n");
243
                 printf("
                 printf(" *Press any key to continue...* ");
244
245
                 getch();
246
                 break;
            }
247
248
            // Issue Employee Salary & Tax -- TODO (after case 7)
249
250
            case 4: // C4
251
            {
                 system("cls");
252
253
                 if (debug == true)
254
255
                     displayDictionariesCount(*D);
256
                 header();
257
258
                 printf(" ISSUE EMPLOYEE SALARY\n\n");
                 printf(" Enter Employee ID: ");
259
260
                 scanf("%d", &empID);
                 printf(" Enter period (mm/yy): ");
261
262
                 scanf("%s", &period);
263
                 fflush(stdin);
264
                 if (issueSalary(D, empID, period))
265
266
                     printf("\n Employee #%d salary for period %s successfully
267
    issued.\n", empID, period);
268
                 }
269
                 else
270
271
                     printf("\n ERROR: Failed to issue employee #%d salary for period
    #%s.\n", empID, period);
272
273
                 printf(
274
                     "\n\n");
275
                 printf(" *Press any key to continue...* ");
276
277
                 getch();
278
                 break;
279
            }
280
281
            // Employee Attendance -- Complete
            case 5: // C5
282
283
            {
284
                while (In2)
285
                 {
286
                     system("cls");
287
                     if (debug == true)
288
                     {
                         displayDictionariesCount(*D);
289
290
291
                     header();
292
                     printf(" EMPLOYEE ATTENDANCE\n\n");
293
```

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```
294
                     printf(" [1] View\n");
                     printf(" [2] View All\n");
295
296
                     printf("
                               [3] Update\n");
297
                     printf("
                               [4] Delete\n");
                     printf("
298
                               [5] Set Attendance\n");
                     printf("
299
                               [6] Set Leave\n");
                     printf("
300
                               [7] Set Absence\n");
                     printf("
                              [8] Set Overtime Hours\n");
301
                     printf("
                              [0] Back\n");
302
                     printf("
303
                                                           _\n\n");
                     printf(" Select Option: ");
304
305
                     scanf("%d", &temp);
306
                     fflush(stdin);
307
308
                     switch (temp)
309
                     case 0: // C50
310
311
                     {
312
                         In2 = false;
313
                         break;
                     }
314
315
316
                     case 1: // C51
317
                         system("cls");
318
319
                         if (debug == true)
320
                         {
321
                             displayDictionariesCount(*D);
322
                         }
                         header();
323
                         printf(" Employee Attendance > View\n\n");
324
325
326
                         printf(" VIEW EMPLOYEE ATTENDANCE\n\n");
                         printf(" Enter Employee ID: ");
327
                         scanf("%d", &empID);
328
                         printf(" Enter Period (mm/yy): ");
329
                         scanf("%s", &period);
330
331
                         fflush(stdin);
332
                         displayAttendance(D, empID, period);
333
                         printf(" *Press any key to continue...* ");
334
335
                         getch();
336
                         break;
337
                     }
338
339
                     case 2: // C52
340
                     {
                         system("cls");
341
342
                         if (debug == true)
343
344
                             displayDictionariesCount(*D);
345
346
                         header();
                         printf(" Employee Attendance > View All\n\n");
347
348
                         printf(" VIEW ALL EMPLOYEE ATTENDANCE\n\n");
349
                         printf(" Enter period (mm/yy): ");
350
351
                         scanf("%s", &period);
352
                         displayAllAttendance(*D, period);
```

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```
353
354
                         printf(" *Press any key to continue...* ");
355
                         getch();
356
                         break;
357
                     }
358
359
                     case 3: // C53
360
361
                         char period[20];
362
                         system("cls");
363
                         if (debug == true)
364
365
                             displayDictionariesCount(*D);
366
                         }
367
                         header();
                         printf(" Employee Attendance > Update\n\n");
368
369
370
                         printf(" UPDATE EMPLOYEE ATTENDANCE\n\n");
                         printf(" Enter Employee ID: ");
371
                         scanf("%d", &empID);
372
                         printf(" Enter Period (mm/yy): ");
373
374
                         scanf("%s", &period);
375
                         fflush(stdin);
376
377
                         Model_Attendance *empAttInfo = searchAttendance(*D, empID,
    period);
378
                         if (empAttInfo)
379
                         {
380
                             while (In9)
381
                             {
382
                                  system("cls");
383
                                  if (debug == true)
384
385
                                      displayDictionariesCount(*D);
386
                                  }
                                 header();
387
                                  printf(" Employee Attendance > Update\n\n");
388
                                  printf(" UPDATE EMPLOYEE ATTENDANCE\n");
389
390
                                  displayAttendance(D, empID, period);
391
392
                                            [1] No. of Present Days\n");
                                  printf("
                                 printf("
                                            [2] No. of Absents\n");
393
                                 printf("
                                           [3] No. of Leaves\n");
394
                                 printf("
395
                                            [4] No. of Overtime Hours\n");
                                 printf("
                                           [5] Period (mm/yy)\n");
396
                                 printf("
397
                                           [6] Update All\n");
398
                                  printf("
                                            [0] Back\n");
399
                                  printf("
                                                            \n\n");
                                  printf(" Select Option: ");
400
                                  scanf("%d", &temp);
401
402
                                  fflush(stdin);
403
404
                                  switch (temp)
405
                                  {
                                  case 0: // C530
406
407
                                  {
408
                                      In9 = false;
409
                                      break;
410
                                  }
```

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```
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                                                      H View.h
                                    case 1: // C531
  411
  412
                                    {
                                        system("cls");
  413
                                        if (debug == true)
  414
  415
                                        {
  416
                                            displayDictionariesCount(*D);
  417
                                        }
  418
                                        header();
  419
                                        printf(" Employee Attendance > Update\n\n");
                                        printf(" UPDATE EMPLOYEE ATTENDANCE\n");
  420
  421
                                        displayAttendance(D, empID, period);
 422
  423
                                        printf(" Enter new number of present days: ");
                                        scanf("%d", &empAttInfo->present);
  424
  425
                                        fflush(stdin);
  426
                                        printf("
  427
                                                              _\n\n");
                                        printf(" *Press any key to continue...* ");
  428
                                        getch();
  429
  430
                                        break;
  431
                                    }
  432
                                    case 2: // C532
  433
                                    {
  434
                                        system("cls");
  435
                                        if (debug == true)
  436
  437
                                            displayDictionariesCount(*D);
  438
                                        }
                                        header();
  439
  440
                                        printf(" Employee Attendance > Update\n\n");
                                        printf(" UPDATE EMPLOYEE ATTENDANCE\n");
  441
  442
                                        displayAttendance(D, empID, period);
  443
                                        printf(" Enter new number of absent days: ");
  444
                                        scanf("%d", &empAttInfo->absent);
  445
  446
                                        fflush(stdin);
  447
                                        printf("
  448
                                                              \n\n");
  449
                                        printf(" *Press any key to continue...* ");
  450
                                        getch();
  451
                                        break;
  452
                                    }
  453
                                    case 3: // C533
  454
                                        system("cls");
  455
  456
                                        if (debug == true)
  457
  458
                                            displayDictionariesCount(*D);
  459
                                        }
                                        header();
  460
  461
                                        printf(" Employee Attendance > Update\n\n");
                                        printf(" UPDATE EMPLOYEE ATTENDANCE\n");
  462
                                        displayAttendance(D, empID, period);
  463
  464
  465
                                        printf(
                                             " Enter new number of leave "
  466
                                             "days: ");
  467
                                        scanf("%d", &empAttInfo->leave);
```

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```
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                                                      H View.h
                                        fflush(stdin);
  469
  470
                                        printf("
  471
                                                               n\n";
  472
                                        printf(" *Press any key to continue...* ");
  473
                                        getch();
  474
                                        break;
  475
                                    }
                                        system("cls");
  476
  477
                                        if (debug == true)
  478
                                        {
                                            displayDictionariesCount(*D);
  479
  480
                                        }
  481
                                        header();
  482
                                        printf(" Employee Attendance > Update\n\n");
                                        printf(" UPDATE EMPLOYEE ATTENDANCE\n");
  483
  484
                                        displayAttendance(D, empID, period);
  485
  486
                                    case 4: // C534
  487
                                    {
                                        system("cls");
  488
  489
                                        if (debug == true)
  490
                                        {
  491
                                            displayDictionariesCount(*D);
  492
                                        }
  493
                                        header();
  494
                                        printf(" Employee Attendance > Update\n\n");
                                        printf(" UPDATE EMPLOYEE ATTENDANCE\n");
  495
                                        displayAttendance(D, empID, period);
  496
  497
  498
                                        printf(" Enter new number of overtime hours: ");
                                        scanf("%d", &empAttInfo->overtime);
  499
  500
                                        fflush(stdin);
  501
                                        printf("
  502
                                                              _\n\n");
                                        printf(" *Press any key to continue...* ");
  503
  504
                                        getch();
  505
                                        break;
  506
                                    }
                                        system("cls");
  507
  508
                                        if (debug == true)
  509
                                        {
  510
                                            displayDictionariesCount(*D);
  511
                                        }
  512
                                        header();
  513
                                        printf(" Employee Attendance > Update\n\n");
  514
                                        printf(" UPDATE EMPLOYEE ATTENDANCE\n");
                                        displayAttendance(D, empID, period);
  515
  516
  517
                                    case 5: // C535
  518
                                    {
  519
                                        system("cls");
  520
                                        if (debug == true)
  521
                                        {
                                            displayDictionariesCount(*D);
  522
  523
                                        }
  524
                                        header();
  525
                                        printf(" Employee Attendance > Update\n\n");
                                        printf(" UPDATE EMPLOYEE ATTENDANCE\n");
  526
```

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```
displayAttendance(D, empID, period);
527
528
529
                                     printf(" Enter new period (mm/yy): ");
                                     scanf("%s", &empAttInfo->period);
530
                                     fflush(stdin);
531
532
                                     printf("
533
                                                          \n\n");
                                     printf(" *Press any key to continue...* ");
534
535
                                     getch();
536
                                     break;
537
                                 }
538
                                     system("cls");
                                     if (debug == true)
539
540
541
                                         displayDictionariesCount(*D);
                                     }
542
543
                                     header();
                                     printf(" Employee Attendance > Update\n\n");
544
                                     printf(" UPDATE EMPLOYEE ATTENDANCE\n");
545
546
                                     displayAttendance(D, empID, period);
547
548
                                 case 6: // C53
549
550
                                     system("cls");
                                     if (debug == true)
551
552
553
                                         displayDictionariesCount(*D);
554
                                     }
555
                                     header();
                                     printf(" Employee Attendance > Update \n\n");
556
                                     printf(" UPDATE EMPLOYEE ATTENDANCE\n");
557
558
                                     displayAttendance(D, empID, period);
559
                                     printf(" Enter new number of present days: ");
560
                                     scanf("%d", &empAttInfo->present);
561
                                     fflush(stdin);
562
563
                                     printf(" Enter new number of absent days: ");
564
                                     scanf("%d", &empAttInfo->absent);
565
                                     fflush(stdin);
566
567
                                     printf(" Enter new number of leave days: ");
568
569
                                     scanf("%d", &empAttInfo->leave);
570
                                     fflush(stdin);
571
572
                                     printf(" Enter new number of overtime hours: ");
573
                                     scanf("%d", &empAttInfo->overtime);
574
                                     fflush(stdin);
575
                                     printf(" Enter new period (mm/yy): ");
576
                                     scanf("%s", &empAttInfo->period);
577
                                     fflush(stdin);
578
579
                                     printf("
580
                                                          _\n\n");
                                     printf(" *Press any key to continue...* ");
581
582
                                     getch();
583
                                     break;
584
                                 }
```

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```
585
586
                                  default:
587
                                  {
588
                                      invalidInput();
589
                                      break;
590
                                  }
591
                                      printf(" *Press any key to continue...* ");
592
                                      getch();
593
                                  }
594
                              }
595
                         }
596
                         else
597
                         {
                              printf("\n ERROR: Employee #%d attendance for period %s does
598
    not exist.\n", empID, period);
                              In9 = false;
599
                              printf("
600
                                                            _\n\n");
                              printf(" *Press any key to continue...* ");
601
602
                              getch();
                         }
603
604
605
                         In9 = true;
                         break;
606
607
                     }
608
609
                     case 4: // C54
610
                     {
                         system("cls");
611
612
                         if (debug == true)
613
                         {
                              displayDictionariesCount(*D);
614
615
                         }
                         header();
616
                         printf(" Employee Attendance > Delete\n\n");
617
618
                         printf(" DELETE EMPLOYEE ATTENDANCE\n\n");
619
                         printf(" Enter Employee ID: ");
620
                         scanf("%d", &empID);
621
                         printf(" Enter period (mm/yy): ");
622
                         scanf("%s", &period);
623
                         fflush(stdin);
624
                         if (deleteAttendance(D, empID, period))
625
626
                              printf("\n Employee #%d attendance for period %s
627
    successfully deleted.\n", empID, period);
628
                         }
629
                         else
630
                         {
                              printf("\n ERROR: Employee #%d attendance not found for
631
    period %s.\n", empID, period);
632
                         printf("
633
                         printf(" *Press any key to continue...* ");
634
635
                         getch();
                         break;
636
637
                     }
638
                     case 5: // C55
639
```

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printf(" SET EMPLOYEE ABSENCE\n\n");

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```
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                                                      H View.h
                           printf(" Enter Employee ID: ");
  698
                           scanf("%d", &empID);
  699
  700
                           printf(" Enter Period (mm/yy): ");
                           scanf("%s", &period);
  701
  702
                           fflush(stdin);
                           setAbsent(empID, D, period);
  703
  704
                           printf("
  705
                                                               \n\n");
                           printf(" *Press any key to continue...* ");
  706
  707
                           getch();
  708
                           break;
  709
                       }
  710
  711
                       case 8: // C58
  712
                       {
                           system("cls");
  713
  714
                           if (debug == true)
  715
                                displayDictionariesCount(*D);
  716
  717
  718
                           header();
                           printf(" Employee Attendance > Set Overtime Hours\n\n");
  719
  720
  721
                           printf(" SET EMPLOYEE OVERTIME HOURS\n\n");
                           printf(" Enter Employee ID: ");
  722
                           scanf("%d", &empID);
  723
                           printf(" Enter Period (mm/yy): ");
  724
                           scanf("%s", &period);
  725
                           fflush(stdin);
  726
                           setOvertime(empID, D, period);
  727
  728
  729
                           printf("
                           printf(" *Press any key to continue...* ");
  730
                           getch();
  731
                           break;
  732
  733
                       }
  734
                       default: // C5D
  735
  736
                       {
  737
                           invalidInput();
  738
                           break;
  739
                       }
  740
                       }
  741
                   }
  742
                   In2 = true;
  743
                   break;
  744
               }
  745
               // View/Update Employee Profile -- Complete
  746
               case 6: // C6
  747
  748
               {
                   while (In3)
  749
  750
                   {
  751
                       system("cls");
                       if (debug == true)
  752
  753
                       {
  754
                           displayDictionariesCount(*D);
  755
                       }
```

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```
756
                     header();
                     printf(" EMPLOYEE PROFILE\n\n");
757
758
759
                     printf("
                               [1] View\n");
                     printf("
760
                               [2] View All\n");
                     printf("
                               [3] Update\n");
761
                     printf("
762
                               [4] Delete\n");
                     printf("
763
                               [0] Back\n");
                     printf("
764
                                                           _\n\n");
                     printf(" Select Option: ");
765
                     scanf("%d", &temp);
766
767
                     fflush(stdin);
768
769
                     switch (temp)
770
                     {
                     case 0: // C60
771
772
773
                         In3 = false;
774
                         break;
775
776
                     case 1: // C61
777
                     {
                         system("cls");
778
779
                         if (debug == true)
780
                         {
                             displayDictionariesCount(*D);
781
782
783
                         header();
784
                         printf(" Employee Profile > View\n\n");
785
                         printf(" VIEW EMPLOYEE PROFILE\n\n");
786
787
                         printf(" Enter Employee ID: ");
788
                         scanf("%d", &empID);
789
790
                         fflush(stdin);
791
                         displayUserInformation(empID, D);
792
793
794
                         printf(" *Press any key to continue...* ");
795
                         getch();
796
                         break;
797
                     }
798
                     case 2: // C62
799
                     {
                         system("cls");
800
801
                         if (debug == true)
802
                         {
                             displayDictionariesCount(*D);
803
804
                         }
805
                         header();
806
                         printf(" Employee Profile > View All\n\n");
807
                         printf(" VIEW ALL EMPLOYEE PROFILE\n");
808
809
                         displayAllUser(*D);
810
811
                         printf(" *Press any key to continue...* ");
812
813
                         getch();
814
                         break;
```

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```
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                                                      H View.h
                       }
  815
  816
                       case 3: // C63
  817
                           system("cls");
  818
  819
                           if (debug == true)
  820
  821
                                displayDictionariesCount(*D);
  822
                           }
  823
                           header();
                           printf(" Employee Profile > Update\n\n");
  824
  825
                           printf(" UPDATE EMPLOYEE PROFILE\n\n");
  826
                           printf(" Enter Employee ID: ");
  827
                           scanf("%d", &empID);
  828
  829
                           fflush(stdin);
  830
                           Model User *empInfo = searchUser(*D, empID);
  831
  832
                           if (empInfo)
  833
                           {
  834
                               while (In6)
  835
                                {
                                    system("cls");
  836
  837
                                    if (debug == true)
  838
                                    {
  839
                                        displayDictionariesCount(*D);
  840
                                    }
  841
                                    header();
  842
                                    printf(" Employee Profile > Update\n\n");
  843
                                    printf(" UPDATE EMPLOYEE PROFILE\n");
  844
  845
                                    displayUserInformation(empID, D);
  846
  847
                                    printf("
                                              [1] First Name\n");
                                    printf("
  848
                                              [2] Last Name \n");
  849
                                    printf("
                                              [3] Gender\n");
                                    printf("
  850
                                              [4] Date of Birth\n");
                                    printf("
                                              [5] Filipino Citizenship\n");
  851
                                    printf("
  852
                                              [6] Home Phone\n");
                                    printf("
                                              [7] Mobile Phone\n");
  853
                                    printf("
                                              [8] Email\n");
  854
                                              [9] Address\n");
                                    printf("
  855
                                    printf("
                                              [10] User Type\n");
  856
                                    printf("
                                              [11] Update All\n");
  857
  858
                                    printf("
                                              [0] Back\n");
                                    printf("
  859
                                                              _\n\n");
                                    printf(" Select Option: ");
  860
                                    scanf("%d", &temp);
  861
                                    fflush(stdin);
  862
  863
  864
                                    system("cls");
  865
                                    if (debug == true)
  866
                                    {
  867
                                        displayDictionariesCount(*D);
  868
  869
                                    header();
  870
                                    printf(" Employee Profile > Update\n\n", empID);
  871
  872
                                    printf(" UPDATE EMPLOYEE PROFILE\n");
```

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displayUserInformation(empID, D);

873

```
874
875
                                  switch (temp)
876
                                  {
                                  case 0: // C630
877
878
                                  {
879
                                      In6 = false;
                                      break;
880
881
                                  }
                                  case 1: // C631
882
883
                                  {
                                      printf(" Enter new first name: ");
884
                                      scanf("%s", &empInfo->firstName);
885
886
                                      fflush(stdin);
                                      printf("
887
                                                            __\n\n");
                                      printf(" *Press any key to continue...* ");
888
889
                                      getch();
                                      break;
890
891
                                  }
892
                                  case 2: // C632
                                  {
893
894
                                      printf(" Enter new last name: ");
                                      scanf("%s", &empInfo->lastName);
895
896
                                      fflush(stdin);
897
                                      printf("
                                                            \n\n");
                                      printf(" *Press any key to continue...* ");
898
899
                                      getch();
900
                                      break;
901
                                  }
902
                                  case 3: // C633
903
                                  {
904
                                      printf(
                                           " Enter new gender [MALE(0) / "
905
                                           "FEMALE(1)]: ");
906
                                      scanf("%u", &empInfo->gender);
907
908
                                      fflush(stdin);
909
                                      printf("
                                                            \n\n");
                                      printf(" *Press any key to continue...* ");
910
911
                                      getch();
912
                                      break;
913
                                  }
914
                                  case 4: // C634
915
                                  {
                                      printf(" Enter new date of birth: ");
916
917
                                      scanf("%s", &empInfo->dateOfBirth);
918
                                      fflush(stdin);
                                      printf("
919
                                                            _\n\n");
                                      printf(" *Press any key to continue...* ");
920
921
                                      getch();
922
                                      break;
923
                                  }
                                  case 5: // C635
924
925
                                  {
                                      printf(" Is a Filipino citizen? [NO(0) / YES(1)]:
926
927
                                      scanf("%u", &empInfo->filipinoCitizen);
                                      fflush(stdin);
928
```

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```
929
                                      printf("
                                                            _\n\n");
                                      printf(" *Press any key to continue...* ");
930
931
                                      getch();
932
                                      break;
                                  }
933
934
                                  case 6: // C636
935
                                      printf(" Enter new home phone: ");
936
                                      scanf("%s", &empInfo->homePhone);
937
938
                                      fflush(stdin);
                                      printf("
939
                                                            _\n\n");
                                      printf(" *Press any key to continue...* ");
940
941
                                      getch();
942
                                      break;
943
                                  }
                                  case 7: // C637
944
945
                                  {
                                      printf(" Enter new mobile phone: ");
946
947
                                      scanf("%s", &empInfo->mobilePhone);
948
                                      fflush(stdin);
949
                                      printf("
                                                            _\n\n");
                                      printf(" *Press any key to continue...* ");
950
951
                                      getch();
952
                                      break;
953
                                  }
954
                                  case 8: // C638
955
                                  {
                                      printf(" Enter new email address: ");
956
                                      scanf("%s", &empInfo->emailAddress);
957
958
                                      fflush(stdin);
                                      printf("
959
                                                            \n\n");
                                      printf(" *Press any key to continue...* ");
960
961
                                      getch();
962
                                      break;
963
                                  }
                                  case 9: // C639
964
965
                                  {
                                      printf(" Enter new address: ");
966
                                      scanf("%s", &empInfo->address);
967
968
                                      fflush(stdin);
969
                                      printf("
                                                           __\n\n");
                                      printf(" *Press any key to continue...* ");
970
971
                                      getch();
972
                                      break;
973
                                  }
974
                                  case 10: // C6310
975
                                  {
976
                                      printf(" Enter new user type [EMPLOYEE(0) /
    EMPLOYER(1)]: ");
977
                                      scanf("%u", &empInfo->userType);
                                      fflush(stdin);
978
979
                                      printf("
                                                            _\n\n");
                                      printf(" *Press any key to continue...* ");
980
981
                                      getch();
```

localhost:4649/?mode=clike 17/32

```
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                                                      H View.h
  982
                                        break;
  983
                                    }
  984
                                    case 11: // C6311
  985
                                    {
                                        printf(" Enter new first name: ");
  986
                                        scanf("%s", &empInfo->firstName);
  987
  988
                                        fflush(stdin);
  989
                                        printf(" Enter new last name: ");
  990
                                        scanf("%s", &empInfo->lastName);
  991
  992
                                        fflush(stdin);
  993
  994
                                        printf(" Enter new gender [MALE(0) / FEMALE(1)]: ");
  995
                                        scanf("%u", &empInfo->gender);
                                        fflush(stdin);
  996
  997
                                        printf(" Enter new date of birth: ");
  998
  999
                                        scanf("%s", &empInfo->dateOfBirth);
 1000
                                        fflush(stdin);
 1001
1002
                                        printf(" Filipino Citizen? [NO(0) / YES(1)]: ");
                                        scanf("%u", &empInfo->filipinoCitizen);
 1003
 1004
                                        fflush(stdin);
 1005
 1006
                                        printf(" Enter new home phone: ");
                                        scanf("%s", &empInfo->homePhone);
 1007
 1008
                                        fflush(stdin);
 1009
                                        printf(" Enter new mobile phone: ");
 1010
                                        scanf("%s", &empInfo->mobilePhone);
 1011
                                        fflush(stdin);
 1012
 1013
 1014
                                        printf(" Enter new email address: ");
 1015
                                        scanf("%s", &empInfo->emailAddress);
                                        fflush(stdin);
 1016
 1017
                                        printf(" Enter new address: ");
 1018
                                        scanf("%s", &empInfo->address);
 1019
 1020
                                        fflush(stdin);
 1021
                                        printf(" Enter new user type [EMPLOYEE(0) /
 1022
      EMPLOYER(1)]: ");
 1023
                                        scanf("%u", &empInfo->userType);
 1024
                                        fflush(stdin);
 1025
                                        break;
 1026
 1027
                                    default: // C63D
 1028
                                    {
 1029
                                        invalidInput();
 1030
                                        break;
 1031
                                    }
 1032
                                    }
 1033
                                }
 1034
                           }
                           else
 1035
 1036
                           {
                                printf("\n ERROR: Employee #%d profile not found.\n",
 1037
      empID);
                                printf("
 1038
                                                              \n\n");
```

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```
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                                                      H View.h
1039
                                printf(" *Press any key to continue...* ");
 1040
                                getch();
1041
                                In6 = false;
 1042
                            }
 1043
                            In6 = true;
 1044
 1045
                           break;
 1046
                       }
                       case 4: // C64
 1047
 1048
                            system("cls");
 1049
 1050
                            if (debug == true)
 1051
                                displayDictionariesCount(*D);
 1052
1053
 1054
                            header();
 1055
                            printf(" Employee Profile > Delete\n\n");
                            printf(" DELETE EMPLOYEE PROFILE\n\n");
 1056
                            printf(" Enter Employee ID: ");
 1057
                            scanf("%d", &empID);
 1058
 1059
                            fflush(stdin);
 1060
                           if (deleteUser(D, empID))
 1061
 1062
 1063
                                printf("\n Employee profile successfully deleted.\n");
 1064
                            }
1065
                           else
 1066
                            {
                                printf("\n Employee profile not found.\n");
 1067
                            }
 1068
 1069
                            printf("
 1070
                                                               _\n\n");
                            printf(" *Press any key to continue...* ");
 1071
 1072
                           getch();
 1073
                           break;
                       }
 1074
                       default: // C6D
 1075
 1076
 1077
                            invalidInput();
                           break;
 1078
 1079
                       }
                       }
 1080
 1081
                   In3 = true;
 1082
 1083
                   break;
 1084
               }
 1085
 1086
              // View/Update Employee Job Information -- Complete
               case 7: // C7
 1087
 1088
               {
 1089
                   while (In4)
 1090
                   {
                       system("cls");
 1091
 1092
                       if (debug == true)
 1093
                            displayDictionariesCount(*D);
 1094
 1095
 1096
                       header();
 1097
```

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```
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                                                      H View.h
1098
                       printf(" JOB INFORMATION\n\n");
                       printf(" [1] View All\n");
 1099
                       printf("
                                [2] View One\n");
 1100
 1101
                       printf("
                                 [3] Update\n");
                       printf("
 1102
                                 [4] Delete\n");
                       printf("
                                 [0] Back\n");
 1103
 1104
                       printf("
                                                        ____\n\n");
                       printf(" Select Option: ");
 1105
 1106
                       scanf("%d", &temp);
 1107
 1108
                       fflush(stdin);
 1109
                       switch (temp)
 1110
 1111
                       {
 1112
                       case 0: // C70
 1113
                       {
 1114
                           In4 = false;
 1115
                           break;
 1116
                       }
                       case 1: // C71
 1117
 1118
                       {
 1119
                           system("cls");
 1120
                           if (debug == true)
 1121
                                displayDictionariesCount(*D);
 1122
 1123
                           }
 1124
                           header();
                           printf(" Job Information > View All\n\n");
 1125
 1126
                           printf(" VIEW JOB INFORMATION\n\n");
 1127
 1128
                           fflush(stdin);
 1129
 1130
                           displayAllJobInformation(*D);
 1131
                           printf(" *Press any key to continue...* ");
 1132
 1133
                           getch();
 1134
                           break;
 1135
 1136
                       case 2: // C72
 1137
                       {
 1138
                           system("cls");
 1139
                           if (debug == true)
 1140
                           {
                                displayDictionariesCount(*D);
 1141
 1142
 1143
                           header();
 1144
                           printf(" Job Information > View One\n\n");
 1145
                           printf(" VIEW JOB INFORMATION\n\n");
 1146
                           printf(" Enter Employee ID: ");
 1147
                           scanf("%d", &empID);
 1148
 1149
                           fflush(stdin);
 1150
 1151
                           displayJobInformation(empID, D);
 1152
                           printf("\n *Press any key to continue...* ");
 1153
 1154
                           getch();
 1155
                           break;
 1156
                       }
```

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19/03/2022, 23:50 H_View.h

```
1157
                      case 3: // C73
1158
                      {
1159
                          system("cls");
1160
                          if (debug == true)
1161
                              displayDictionariesCount(*D);
1162
1163
                          }
1164
                          header();
                          printf(" Job Information > Update\n\n");
1165
1166
                          printf(" UPDATE JOB INFORMATION\n\n");
1167
                          printf(" Enter Employee ID: ");
1168
1169
                          scanf("%d", &empID);
1170
                          fflush(stdin);
1171
                          Model_JobInformation *jobInfo = searchJobInformation(*D, empID);
1172
                          if (jobInfo)
1173
1174
                          {
1175
                              while (In5)
1176
1177
                                  system("cls");
1178
                                  if (debug == true)
1179
                                  {
1180
                                      displayDictionariesCount(*D);
1181
                                  }
                                  header();
1182
1183
                                  printf(" Job Information > Update\n\n");
                                  printf(" UPDATE JOB INFORMATION\n");
1184
                                  displayJobInformation(empID, D);
1185
                                  printf("\n");
1186
                                  printf(" [1] Job Position\n");
1187
                                  printf(" [2] Job Location\n");
1188
                                  printf(" [3] Job Phone\n");
1189
                                  printf(" [4] Email\n");
1190
                                  printf("
                                            [5] Start Date\n");
1191
                                  printf("
                                            [6] Department\n");
1192
                                  printf("
                                            [7] Basic Salary\n");
1193
                                  printf("
                                            [8] Pagibig Deposit\n");
1194
                                  printf("
                                            [9] Update All\n");
1195
                                  printf("
                                             [0] Back\n");
1196
                                  printf("
1197
                                                            _\n\n");
                                  printf(" Select Option: ");
1198
                                  scanf("%d", &temp);
1199
1200
                                  fflush(stdin);
1201
1202
                                  system("cls");
1203
                                  if (debug == true)
1204
                                      displayDictionariesCount(*D);
1205
1206
                                  }
1207
                                  header();
                                  printf(" Job Information > Update > Job Position\n\n");
1208
                                  printf(" UPDATE JOB INFORMATION\n");
1209
1210
                                  displayJobInformation(empID, D);
1211
                                  switch (temp)
1212
                                  {
                                  case 0: // C730
1213
1214
                                      In5 = false;
1215
```

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19/03/2022, 23:50 H View.h 1216 break; 1217 } 1218 case 1: // C731 1219 { 1220 printf(" Enter new job position: "); scanf("%s", &jobInfo->jobPosition); 1221 1222 fflush(stdin); 1223 1224 printf(" _\n\n"); printf(" *Press any key to continue...* "); 1225 1226 getch(); 1227 break; 1228 } 1229 case 2: // C732 1230 1231 printf(" Enter new job location: "); 1232 scanf("%s", &jobInfo->jobLocation); 1233 fflush(stdin); 1234 1235 printf(" _\n\n"); printf(" *Press any key to continue...* "); 1236 1237 getch(); 1238 break; 1239 } 1240 case 3: // C733 1241 printf(" Enter new job phone: "); 1242 scanf("%s", &jobInfo->jobPhone); 1243 1244 fflush(stdin); 1245 1246 printf(" _\n\n"); printf(" *Press any key to continue...* "); 1247 1248 getch(); 1249 break; 1250 } case 4: // C734 1251 1252 printf(" Enter new email: "); 1253 1254 scanf("%s", &jobInfo->jobEmail); fflush(stdin); 1255 1256 1257 printf(" __\n\n"); printf(" *Press any key to continue...* "); 1258 1259 getch(); 1260 break; 1261 } 1262 case 5: // C735 1263 printf(" Enter new start date: "); 1264 scanf("%s", &jobInfo->startDate); 1265 fflush(stdin); 1266 1267 printf(" 1268 _\n\n"); printf(" *Press any key to continue...* "); 1269 1270 getch();

localhost:4649/?mode=clike 22/32

19/03/2022, 23:50 H View.h 1271 break; 1272 } 1273 case 6: // C736 1274 { printf(" Enter new department: "); 1275 scanf("%s", &jobInfo->department); 1276 1277 fflush(stdin); 1278 1279 printf(" _\n\n"); printf(" *Press any key to continue...* "); 1280 1281 getch(); 1282 break; 1283 } 1284 case 7: // C737 1285 1286 printf(" Enter new basic salary: "); 1287 scanf("%lf", &jobInfo->basicSalary); 1288 fflush(stdin); 1289 1290 printf(" _\n\n"); printf(" *Press any key to continue...* "); 1291 1292 getch(); 1293 break; 1294 } 1295 case 8: // C738 1296 printf(" Enter new pagibig deposit: "); 1297 1298 scanf("%lf", &jobInfo->pagibigDeposit); fflush(stdin); 1299 1300 1301 printf(" __\n\n"); printf(" *Press any key to continue...* "); 1302 1303 getch(); 1304 break; 1305 } case 9: // C739 1306 1307 1308 printf(" Enter new job position: "); 1309 scanf("%s", &jobInfo->jobPosition); fflush(stdin); 1310 1311 printf(" Enter new job location: "); 1312 scanf("%s", &jobInfo->jobLocation); 1313 1314 fflush(stdin); 1315 1316 printf(" Enter new job phone: "); scanf("%s", &jobInfo->jobPhone); 1317 1318 fflush(stdin); 1319 printf(" Enter new email: "); 1320 scanf("%s", &jobInfo->jobEmail); 1321 1322 fflush(stdin); 1323 printf(" Enter new start date: "); 1324 scanf("%s", &jobInfo->startDate); 1325 1326 fflush(stdin); 1327

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```
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                                                      H View.h
                                        printf(" Enter new department: ");
1328
                                        scanf("%s", &jobInfo->department);
 1329
 1330
                                        fflush(stdin);
 1331
 1332
                                        printf(" Enter new basic salary: ");
                                        scanf("%lf", &jobInfo->basicSalary);
 1333
                                        fflush(stdin);
 1334
 1335
                                        printf(" Enter new pagibig deposit: ");
 1336
                                        scanf("%lf", &jobInfo->pagibigDeposit);
 1337
                                        fflush(stdin);
 1338
 1339
 1340
                                        printf("
                                                             \n\n");
 1341
                                        printf(" *Press any key to continue...* ");
 1342
                                        getch();
 1343
                                        break;
 1344
                                    }
 1345
                                    default: // C73D
 1346
                                    {
 1347
                                        invalidInput();
 1348
                                        break;
 1349
                                    }
 1350
                                    }
 1351
                                }
 1352
                           }
1353
                           else
 1354
                           {
 1355
                                printf("\n ERROR: Employee #%d job information does not
      exist.\n", empID);
                                printf("
 1356
                                                              _\n\n");
 1357
                                printf(" *Press any key to continue...* ");
 1358
                                getch();
 1359
                                In5 = false;
                           }
 1360
 1361
                           In5 = true;
 1362
                           break;
 1363
                       }
 1364
                       case 4: // C74
 1365
                       {
 1366
                           system("cls");
                           if (debug == true)
 1367
 1368
                           {
                                displayDictionariesCount(*D);
 1369
 1370
                           }
                           header();
 1371
 1372
                           printf(" Job Information > Delete\n\n");
                           printf(" DELETE JOB INFORMATION\n\n");
 1373
                           printf(" Enter Employee ID: ");
 1374
                           scanf("%d", &empID);
 1375
                           fflush(stdin);
 1376
 1377
                           if (deleteJobInformation(D, empID))
 1378
1379
                           {
 1380
                                printf("\n Employee job information sucessfully
      deleted.\n");
1381
                           }
1382
                           else
 1383
                           {
```

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```
1384
                               printf("\n ERROR: Employee #%d job information does not
     exist.\n", empID);
                           }
1385
1386
                           printf("
1387
                                                           ____\n\n");
                           printf(" *Press any key to continue...* ");
1388
1389
                           getch();
1390
                           break;
1391
                       }
                       default: // C7D
1392
1393
1394
                           invalidInput();
1395
                           break;
1396
                       }
1397
                       }
1398
                  }
1399
                  In4 = true;
1400
                  break;
1401
              }
1402
              // View/Update Bonus -- Complete
1403
1404
              case 8: // C8
1405
              {
1406
                  char period[20];
1407
                  int bonusID;
1408
                  int employeeID;
1409
                  while (In7)
1410
                  {
                       system("cls");
1411
1412
                       if (debug == true)
1413
1414
                           displayDictionariesCount(*D);
1415
                       header();
1416
                       printf(" EMPLOYEE BONUS\n\n");
printf(" [1] View All\n");
1417
1418
                       printf(" [2] View One\n");
1419
                       printf(" [3] Update\n");
1420
                       printf(" [4] Delete\n");
1421
                                 [0] Back\n");
1422
                       printf("
1423
                       printf("
                                                         ____\n\n");
                       printf(" Select Option: ");
1424
                       scanf("%d", &temp);
1425
1426
                       fflush(stdin);
1427
1428
                       switch (temp)
1429
1430
                       case 0: // C80
1431
1432
                           In7 = false;
1433
                           break;
1434
                       }
1435
1436
                       case 1: // C81
1437
                       {
                           system("cls");
1438
1439
                           if (debug == true)
1440
                           {
```

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{

1500

```
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                                                      H View.h
1501
                                    system("cls");
 1502
                                    if (debug == true)
 1503
 1504
                                         displayDictionariesCount(*D);
 1505
                                    }
 1506
                                    header();
 1507
                                    printf(" Employee Bonus > Update\n\n");
 1508
                                    printf(" UPDATE BONUS INFORMATION\n\n");
 1509
                                    printf(" [1] Bonus Name\n");
 1510
                                    printf("
 1511
                                              [2] Amount\n");
                                    printf("
                                              [3] Period\n");
 1512
                                    printf(<mark>"</mark>
                                              [4] Update All\n");
 1513
                                    printf("
                                              [0] Back\n");
 1514
                                    printf("
 1515
                                                               _\n\n");
                                    printf(" Select Option: ");
 1516
                                    scanf("%d", &temp);
 1517
 1518
                                    fflush(stdin);
 1519
 1520
                                    system("cls");
 1521
                                    if (debug == true)
 1522
                                    {
 1523
                                         displayDictionariesCount(*D);
 1524
                                    }
 1525
                                    header();
 1526
                                    displayBonus(empID, D, period);
 1527
 1528
                                    switch (temp)
 1529
                                    {
 1530
                                    case 0: // C820
 1531
                                         In8 = false;
 1532
                                         break;
                                    case 1: // C821
 1533
 1534
                                    {
                                         printf(" Enter new bonus name: ");
 1535
                                         scanf("%s", &bonusInfo->bonusName);
 1536
                                         fflush(stdin);
 1537
 1538
 1539
                                         printf("
                                                               \n\n");
 1540
                                         printf(" *Press any key to continue...* ");
 1541
                                         getch();
 1542
                                         break;
 1543
                                    }
 1544
                                    case 2: // C822
 1545
                                    {
 1546
                                         printf(" Enter new amount: ");
                                         scanf("%lf", &bonusInfo->amount);
 1547
                                         fflush(stdin);
 1548
 1549
 1550
                                         printf("
                                                               _\n\n");
                                         printf(" *Press any key to continue...* ");
 1551
 1552
                                         getch();
 1553
                                         break;
 1554
                                    }
 1555
                                    case 3: // C823
 1556
                                         printf(" Enter new period (mm/yy): ");
 1557
```

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```
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                                                      H View.h
1558
                                        scanf("%s", &bonusInfo->period);
 1559
                                        fflush(stdin);
                                        strcpy(period, bonusInfo->period);
 1560
 1561
                                        printf("
 1562
                                                             __\n\n");
                                        printf(" *Press any key to continue...* ");
 1563
 1564
                                        getch();
 1565
                                        break;
 1566
                                    }
 1567
                                    case 4: // C824
 1568
                                    {
 1569
                                        printf(" Enter new bonus name: ");
                                        scanf("%s", &bonusInfo->bonusName);
 1570
                                        fflush(stdin);
 1571
 1572
                                        printf(" Enter new amount: ");
 1573
 1574
                                        scanf("%lf", &bonusInfo->amount);
 1575
                                        fflush(stdin);
 1576
 1577
                                        printf(" Enter new period (mm/yy): ");
                                        scanf("%s", &bonusInfo->period);
 1578
 1579
                                        strcpy(period, bonusInfo->period);
 1580
                                        fflush(stdin);
 1581
                                        break;
                                    }
 1582
                                    default: // C82D
 1583
 1584
                                    {
 1585
                                        invalidInput();
 1586
                                        break;
 1587
                                    }
                                    }
 1588
 1589
                                }
                           }
 1590
                           else
 1591
 1592
 1593
                                printf("\n ERROR: Employee #%d bonus not found for period
      %s.\n", empID, period);
                                printf("
 1594
                                                               \n\n");
                                printf(" *Press any key to continue...* ");
 1595
 1596
                                getch();
                                In8 = false;
 1597
 1598
                           }
 1599
                           In8 = true;
 1600
                           break;
 1601
                       }
 1602
                       case 4: // C84
 1603
                           system("cls");
 1604
 1605
                           if (debug == true)
 1606
                           {
 1607
                                displayDictionariesCount(*D);
 1608
                           }
                           header();
 1609
                           printf(" Employee Bonus > Delete\n\n");
 1610
 1611
                           printf(" DELETE BONUS INFORMATION\n\n");
 1612
 1613
                           printf(" Enter Employee ID: ");
 1614
```

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```
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                                                      H View.h
1615
                           scanf("%d", &employeeID);
 1616
                           fflush(stdin);
 1617
                           printf(" Enter period (mm/yy): ");
 1618
 1619
                           scanf("%s", &period);
                           fflush(stdin);
 1620
 1621
                           if (deleteBonus(D, employeeID, period))
 1622
 1623
                           {
                                printf("\n Employee #%d bonus for period %s sucessfully
 1624
      deleted.\n", employeeID, period);
 1625
                           }
 1626
                           else
 1627
                           {
                                printf("\n ERROR: Employee #%d bonus not found for period
 1628
      $s.\n", employeeID, period);
 1629
 1630
 1631
                           printf("
 1632
                           printf(" *Press any key to continue...* ");
 1633
                           getch();
 1634
                           break;
 1635
                       }
 1636
                       default: // C8D
 1637
                       {
 1638
                           invalidInput();
 1639
                           break;
 1640
                       }
                       }
 1641
 1642
                   In7 = true;
 1643
 1644
                   break;
              }
 1645
 1646
 1647
              // View/Delete Salary -- TODO
 1648
              case 9: // C9
 1649
              {
                   while (In10)
 1650
 1651
                   {
                       system("cls");
 1652
                       if (debug == true)
 1653
 1654
                       {
 1655
                           displayDictionariesCount(*D);
 1656
                       }
 1657
                       header();
1658
                       printf(" EMPLOYEE SALARY\n\n");
                       printf(" [1] View All\n");
 1659
                       printf(" [2] View One\n");
 1660
                       printf(" [3] Delete\n");
 1661
                       printf(" [0] Back\n");
 1662
                       printf("
 1663
                                                              _\n\n");
                       printf(" Select Option: ");
 1664
                       scanf("%d", &temp);
 1665
 1666
                       fflush(stdin);
 1667
                       switch (temp)
 1668
                       {
 1669
                       case 0: // C90
 1670
                       {
```

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```
In10 = false;
1671
1672
                          break;
1673
1674
                      case 1: // C91
1675
                          system("cls");
1676
1677
                          if (debug == true)
1678
                              displayDictionariesCount(*D);
1679
1680
                          }
1681
                          header();
                          printf(" Employee Salary > View All\n\n");
1682
                          printf(" VIEW ALL EMPLOYEE SALARY\n\n");
1683
                          printf(" Enter Period (mm/yy): ");
1684
                          scanf("%s", &period);
1685
                          fflush(stdin);
1686
                          displayAllSalary(*D, period);
1687
1688
1689
                          printf("\n *Press any key to continue...* ");
1690
                          getch();
1691
                          break;
1692
                      }
1693
                      case 2: // C92
1694
1695
                          system("cls");
1696
                          if (debug == true)
1697
1698
                              displayDictionariesCount(*D);
1699
                          }
                          header();
1700
1701
                          printf(" Employee Salary > View One\n\n");
                          printf(" VIEW ONE EMPLOYEE SALARY\n\n");
1702
1703
                          printf(" Enter Employee ID: ");
1704
                          scanf("%d", &empID);
1705
                          printf(" Enter Period (mm/yy): ");
                          scanf("%s", &period);
1706
                          fflush(stdin);
1707
                          displayIssueSalary(D, empID, period);
1708
1709
1710
                          printf(" *Press any key to continue...* ");
1711
                          getch();
1712
                          break;
1713
                      }
1714
                      case 3: // C93
1715
                      {
1716
                          system("cls");
1717
                          if (debug == true)
1718
                          {
1719
                              displayDictionariesCount(*D);
1720
                          }
1721
                          header();
1722
                          printf(" Employee Salary > Delete\n\n");
                          printf(" DELETE EMPLOYEE SALARY\n\n");
1723
                          printf(" Enter Employee ID: ");
1724
1725
                          scanf("%d", &empID);
                          printf(" Enter Period (mm/yy): ");
1726
                          scanf("%s", &period);
1727
                          if (deleteIssueSalary(D, empID, period))
1728
1729
                          {
```

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```
1730
                              printf("\n Employee #%d salary for period %s deleted
     successfully.", empID, period);
1731
1732
                          else
1733
                          {
1734
                               printf("\n ERROR: Employee #%d salary not found for period
     %s.\n", empID, period);
1735
1736
1737
                          printf(" \n
                                                             \n\n");
                          printf(" *Press any key to continue...* ");
1738
1739
                          getch();
1740
                          break;
1741
1742
                      default: // C9D
1743
                      {
1744
                          invalidInput();
1745
                          break;
1746
                      }
1747
                      }
1748
                  }
1749
                  In10 = true;
1750
                  break;
1751
              }
1752
             default: // CD
1753
1754
              {
                  invalidInput();
1755
1756
                  break;
1757
              }
1758
              }
1759
         }
1760 }
1761
1762 void showEmployeeSalary(Dictionary *D)
1763 {
1764
         int run = 1;
1765
         int empID;
         char period[20];
1766
1767
1768
         // if (debug)
         // {
1769
1770
         //
                 displayDictionariesCount(*D);
         // }
1771
1772
1773
         while (run)
1774
         {
1775
              system("cls");
1776
              header();
              printf(" VIEW EMPLOYEE SALARY\n\n");
1777
             printf(" Enter employee ID: ");
1778
              scanf("%d", &empID);
1779
              fflush(stdin);
1780
1781
1782
              printf(" Enter period (mm/yy): ");
              scanf("%s", &period);
1783
1784
              fflush(stdin);
1785
              displayIssueSalary(D, empID, period);
1786
```

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```
1787
            1788
1789
                                                                       _\n");
1790
            printf("\n Select Option: ");
scanf("%d", &run);
1791
1792
1793
            fflush(stdin);
        }
1794
1795 }
1796
1797 #endif
1798
```

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