```
E:\COS20007\CustomProgram\Manage.cs
```

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1
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```
1 namespace HospitalManagementSystem
 2 {
 3
       public class Manage
 4
        {
            private List<PatientRecord> _patient_records = new
 5
             List<PatientRecord>();
            private string _file_path = "E:/COS20007/CustomProgram/
 6
              HospitalRecords.txt";
 7
 8
 9
            public Manage()
10
11
                LoadRecordsFromFile();
12
            }
13
14
            public void AddPatientRecord(Patient patient, string
             treatment_plan, string assigned_staff)
15
16
                PatientRecord new_record = new PatientRecord(patient.Name,
                  patient.DOB, patient.Contact, patient.Symptoms,
                  treatment_plan, assigned_staff);
17
                _patient_records.Add(new_record);
18
                Console.WriteLine($"Patient record for {patient.Name} has been →
19
                   added.");
20
                SaveRecordsToFile();
21
22
            }
23
24
            public void RemovePatientRecord(Patient patient)
25
26
                PatientRecord record_remove = _patient_records.Find(r =>
                  r.Name == patient.Name);
27
                if (record_remove != null)
28
29
                    _patient_records.Remove(record_remove);
30
31
                    Console.WriteLine($"Patient record for {patient.Name} has >
                      been removed.");
32
                    SaveRecordsToFile();
                }
33
34
                else
35
36
                    Console.WriteLine($"No patient record found for
                      {patient.Name}.");
37
                }
            }
38
39
40
            public void DisplayAllRecords()
```

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```
41
42
                if (_patient_records.Count == 0)
43
44
                    Console.WriteLine("No patient records available.");
45
                    return;
                }
46
47
48
                Console.WriteLine("Displaying all patient records:");
                foreach (var record in _patient_records)
49
50
                    record.DisplayRecord();
51
                    Console.WriteLine();
52
53
                }
54
            }
55
56
            public PatientRecord FindPatientRecordByName(string patient_name)
57
58
59
                return _patient_records.Find(r => r.Name == patient_name);
60
            }
61
62
            public void SaveRecordsToFile() // Make this public for external
              saving
            {
63
                using (StreamWriter writer = new StreamWriter(_file_path))
64
65
                    foreach (var record in _patient_records)
66
67
                        writer.WriteLine(record.Name);
68
                        writer.WriteLine(record.DateOfBirth.ToString("yyyy-MM- >
69
                       dd"));
70
                        writer.WriteLine(record.Contact);
71
                        writer.WriteLine(string.Join(",", record.Symptoms));
72
                        writer.WriteLine(record.TreatmentPlan);
73
                        writer.WriteLine(record.AssignedStaff);
74
                    }
                }
75
76
                Console.WriteLine("Records saved to file.");
77
            }
78
79
            private void LoadRecordsFromFile()
80
81
                if (File.Exists(_file_path))
82
83
                    using (StreamReader reader = new StreamReader(_file_path))
84
                        while (!reader.EndOfStream)
85
86
                        {
87
                            string name = reader.ReadLine();
```

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```
DateTime dob = DateTime.Parse(reader.ReadLine());
 88
 89
                             string contact = reader.ReadLine();
 90
                             string[] symptoms = reader.ReadLine().Split(',');
                             string treatment_plan = reader.ReadLine();
 91
                             string assigned_staff = reader.ReadLine();
 92
 93
 94
                             PatientRecord record = new PatientRecord(name,
                        dob, contact, symptoms, treatment_plan, assigned_staff);
 95
                             _patient_records.Add(record);
                         }
 96
 97
                     }
 98
                     Console.WriteLine("Records loaded from file.");
99
                 }
                 else
100
101
                 {
102
                     Console.WriteLine("No records file found, starting
                       fresh.");
103
                 }
104
            }
        }
105
106 }
107
```