

# My Project

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# Chapter 1

## Class Index

### 1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

<a href="#">Nurse</a>	Structure representing a nurse's data . . . . .	<a href="#">5</a>
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## Chapter 2

# File Index

### 2.1 File List

Here is a list of all documented files with brief descriptions:

<a href="#">CSVParser.h</a>	7
<a href="#">NurseFunctions.h</a>	7
<a href="#">NurseList.h</a>	7





## Chapter 3

# Class Documentation

### 3.1 Nurse Struct Reference

Structure representing a nurse's data.

```
#include <NurseList.h>
```

#### Public Member Functions

- `int getShiftPreference (int shiftNumber) const`  
*Gets the shift preference for a specific shift.*

#### Public Attributes

- `std::string fullName`
- `int nurseNumber`
- `std::string nurseType`
- `std::string department`
- `std::vector< int > shiftPreferences`

#### 3.1.1 Detailed Description

Structure representing a nurse's data.

This structure holds information about a nurse, including their full name, nurse number, type (e.g., "RN", "LPN"), department, and shift preferences.

#### 3.1.2 Member Function Documentation

##### 3.1.2.1 `getShiftPreference()`

```
int Nurse::getShiftPreference (
    int shiftNumber) const [inline]
```

Gets the shift preference for a specific shift.

**Parameters**

<i>shiftNumber</i>	The shift number (1-42).
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**Returns**

int The preference for the specified shift (0, 1, 2).

The documentation for this struct was generated from the following file:

- NurseList.h

# Chapter 4

## File Documentation

### 4.1 CSVParser.h

```
00001 #ifndef CSV_PARSER_H
00002 #define CSV_PARSER_H
00003
00004 #include <string>
00005
00014 void parseNursesCSV(const std::string& fileName);
00015
00016 #endif // CSV_PARSER_H
```

### 4.2 NurseFunctions.h

```
00001 #ifndef NURSE_FUNCTIONS_H
00002 #define NURSE_FUNCTIONS_H
00003
00004 #include <string>
00005
00014 void viewNursesByDepartmentAndType(const std::string& department, const std::string& type);
00015
00016 #endif // NURSE_FUNCTIONS_H
```

### 4.3 NurseList.h

```
00001 #ifndef NURSE_LIST_H
00002 #define NURSE_LIST_H
00003
00004 #include <string>
00005 #include <vector>
00006 #include <unordered_map>
00007
00014 struct Nurse {
00015     std::string fullName;
00016     int nurseNumber;
00017     std::string nurseType;
00018     std::string department;
00019     std::vector<int> shiftPreferences; // Stores preferences for 42 shifts
00020
00027     int getShiftPreference(int shiftNumber) const {
00028         if (shiftNumber >= 1 && shiftNumber <= shiftPreferences.size()) {
00029             return shiftPreferences[shiftNumber - 1];
00030         }
00031         return -1; // Invalid shift number
00032     }
00033 };
00034
00041 extern std::unordered_map<std::string, std::unordered_map<std::string, std::vector<Nurse>>
00042     departmentNursesMap;
00043 // No need to declare viewNursesByDepartmentAndType here; it's in NurseFunctions.h
00044
00045 #endif // NURSE_LIST_H
```



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getShiftPreference

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