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:

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Chapter 2

Class Documentation

2.1 CompareTuple Class Reference

Public Member Functions

- bool **operator()** (myTuple &tuple1, myTuple &tuple2)

The documentation for this class was generated from the following files:

- timekeeper.h
- timekeeper.cpp

2.2 Course Class Reference

Public Member Functions

- **Course** (string name, Department *dep, float freq)

Public Attributes

- string **name**
- Department * **dep**
- float **freq**
- vector< Student * > **students**
- Faculty * **takenByFac**
- bool **isFloated**

The documentation for this class was generated from the following files:

- Network.h
- Network.cpp

2.3 Department Class Reference

Public Member Functions

- **Department** (string name, int numf, int studs, float semdept, float nonsemdept, University ∗u)

Public Attributes

- string **name**
- University ∗ **university**
- vector< Faculty ∗ > **faculties**
- vector< Student ∗ > **students**
- vector< Course ∗ > **allCourses**
- vector< Course ∗ > **courseFloated**
- float **semDepCourses**
- float **nonsemDepCourses**
- int **numOfFaculty**
- int **numOfStudspy**

The documentation for this class was generated from the following files:

- Network.h
- Network.cpp

2.4 Faculty Class Reference

Public Attributes

- int **empID**
- string **name**
- Department ∗ **dept**
- Houselocality ∗ **housel**
- vector< Interest ∗ > **interests**
- bool **isTeaching**
- Course ∗ **coursesTaught**
- House ∗ **myHouse**
- vector< Faculty ∗ > **friends**
- University ∗ **university**
- int **UID**

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

- Network.h

2.5 Hostel Class Reference

Public Member Functions

- **Hostel** (string name)
- void **allotRoom** (Student ∗)

Public Attributes

- vector< Room ∗ > **rooms**
- string **name**
- vector< Student ∗ > **hostlers**

The documentation for this class was generated from the following files:

- Network.h
- Network.cpp

2.6 House Class Reference

Public Member Functions

- **House** (int, Faculty ∗)

Public Attributes

- int **houseNo**
- Faculty ∗ **resident**

The documentation for this class was generated from the following files:

- Network.h
- Network.cpp

2.7 Houselocality Class Reference

Public Member Functions

- **Houselocality** (string)
- void **allotHouse** (Faculty ∗)

Public Attributes

- vector< House * > **houses**
- string **name**
- vector< Faculty * > **residents**

The documentation for this class was generated from the following files:

- Network.h
- Network.cpp

2.8 Interest Class Reference

Public Member Functions

- **Interest** (string)

Public Attributes

- string **name**
- vector< Student * > **students**
- vector< Faculty * > **faculties**

The documentation for this class was generated from the following files:

- Network.h
- Network.cpp

2.9 mymsgToGenerator Struct Reference

Public Attributes

- long **mtype**
- bool **toWake** [4]

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

- generator.h
- timekeeper.cpp

2.10 mymsgToTimeKeeper Struct Reference

Public Attributes

- long **mtype**
- long **timeToWake**
- int **reqBy**

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

- generator.h
- timekeeper.cpp

2.11 myTuple Class Reference

Public Attributes

- long **time**
- int **funcno**

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

- timekeeper.h

2.12 Network Class Reference

Public Attributes

- vector< Student * > **students**
- vector< Faculty * > **faculties**
- vector< University * > **universities**
- vector< Interest * > **globalInterests**
- int **randomSeedFaculty**
- int **randomSeedStudent**
- int **randomSeedCourse**
- int **randomSeedFriend**

The documentation for this class was generated from the following files:

- Network.h
- Network.cpp

2.13 Room Class Reference

Public Member Functions

- **Room** (int, Student ∗)

Public Attributes

- int **roomNo**
- Student ∗ **resident**

The documentation for this class was generated from the following files:

- Network.h
- Network.cpp

2.14 Student Class Reference

Public Attributes

- int **entryNumber**
- Hostel ∗ **hostel**
- string **name**
- Department ∗ **dep**
- vector< Interest ∗ > **interests**
- vector< Course ∗ > **coursesTaken**
- Room ∗ **myRoom**
- vector< Student ∗ > **friends**
- University ∗ **university**
- int **UID**

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

- Network.h

2.15 University Class Reference

Public Attributes

- string **name**
- int **friendshipRate**
- float **openness**
- float **friendliness**

- vector< Department * > **departments**
- vector< Student * > **students**
- vector< Faculty * > **faculties**
- vector< float > **popularity**
- vector< Hostel * > **hostels**
- vector< Course * > **courses**
- vector< Course * > **floatedCourses**
- vector< Houselocality * > **houselocalities**

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

- Network.h