**FUNCTIONAL REQUIREMENTS**

**Req1. Search** an user by his identification document.This method receives the id number of the searched user and returns the information of the user.

**Req2. Add** a new turn. This method receives as parameters the type and the duration of the turn.

**Req3. Shift** the actual turn when its duration time ends.

**Req4. Show** the actual date and time of the system. Specifically, it should show the year, month, day, hour, minute and second.

**Req5. Update** the date and time of the system. This can be done manually or by taking the system time.

**Req6. Generate** a report of turns requested by an user. The report should include the code and state of the turn, and presence or absence of the person when he was called.

**Req7. Suspend** a person two days if he was absent durante for two turns.

**Req8. Generate** a report of people who have had certain turn. This method receives as parameter the requested turn.

**Req9. Generate** people registered in the system. The user will have to indicated a number of random people to be generated.

**Req10. Generate** turns associated to registered people. This method receives as parameters the amount of random turns wanted by the user.

**NON FUNCTIONAL REQUIREMENTS**

**RNF1.** Establish as floating the duration of the turn.

**RNF2.** Every turn should have a delay of 15 seconds.

**RNF3.** Sorting algorithms (insertion sort, bubble sort, selection sort and sort methods of class Collections) must be used.

**RNF4.** There must be at least one sequential search and at least one binary search.

**RNF5.** The information must be persistent by serialization.

**RNF6.** There must be text files for names and last names of people for the option of generate random people.

**RNF7.** Reports should be saved into a text file.